

Appendix A

IDEQ Approved Recommendations for the 2023 Annual Offsite Sampling Plan

Table 6-1
2023 Annual Offsite Sampling Plan
Fort Hall Mine Landfill

Well ID	Easting ^A (x-coordinate)	Northing ^A (y-coordinate)	Elevation (feet msl)	Minimum Purge Volume (gallons)	Last Sample Date	Years of Sampling Data	Number of Sampling Events	PCE or TCE Detection in 2022	Latest Value Exceeds Standard	Exceeded MCL in Past 5 Years	Dataset Trend [~]	Sampling Program Change for 2022	Proposed Sampling Program Starting 2023*
City of Pocatello Monitoring Wells													
MW-37	596895.44	415075.61	4503	2.0	2021	3	5	N/A	No	No	N/A	Remove	Remove
MW-38	596694.57	415075.59	4501	2.3	2022	2	2	TCE	No	No	N/A	None	Remove
	596694.57	415075.59	4501	2.3	2022	2	2	No	No	No	N/A	None	Remove
	596694.57	415075.59	4501	2.3	2021	4	5	N/A	No	No	N/A	None	Remove
PA-1	596644.63	415607.75	4503	1.2	2021	27	11	N/A	No	No	Decreasing	Remove	Include - Annual
PA-3	596636.44	415606.15	4503.23	0.6	2021	27	13	N/A	No	No	Decreasing	Remove	Include - Annual
PA-4	596422.76	415438.08	4518.65	1.2	2022	27	7	TCE	No	No	Decreasing	None	Include - Annual
	596422.76	415438.08	4518.65	1.2	2022	27	7	TCE	No	No	Decreasing	None	Remove
	596422.76	415438.08	4518.65	1.2	2022	27	6	TCE	No	No	Decreasing	None	Remove
PA-5	597670.68	414891.60	4498.17	0.6	2021	27	10	N/A	No	No	Decreasing	Remove	Remove
PA-7	596917.81	415954.19	4488.11	1.4	2018	27	9	N/A	No	No	Decreasing	Remove	Remove
PA-8	596893.98	415920.84	4489.87	1.0	2022	28	8	TCE	No	No	Decreasing	None	Include - Annual
	596893.98	415920.84	4489.87	1.0	2022	28	6	No	No	No	Decreasing	None	Remove
	596893.98	415920.84	4489.87	1.0	2020	26	5	N/A	No	No	N/A	None	Remove
PA-9	598890.52	416316.33	4482.47	0.8	2021	3	3	N/A	No	No	N/A	Remove	Remove
	598890.52	416316.33	4482.47	0.8	2021	3	3	N/A	No	No	N/A	Remove	Remove
PA-10	599076.35	416149.56	4485.37	0.4	2021	24	4	N/A	No	No	N/A	Remove	Remove
City of Pocatello Municipal Supply Wells													
Muni-Well-14	589854.12	421658.16	4470	5000	2021	28	15	N/A	No	No	Decreasing	Reduce	Include - Biannual
Muni-Well-33	593063.94	418259.59	4510	5000	2021	28	20	N/A	No	Yes (TCE)	Decreasing	Reduce	Include - Biannual
Domestic Supply Wells													
RW-2076F	603437.23	410006.10	4568	113	2021	29	46	N/A	Yes (TCE)	Yes (TCE)	Decreasing	None	Include - Annual
RW-2140H	601376.86	410184.78	4557	400	2021	29	13	Both	Yes (TCE)	Yes (TCE)	Decreasing	None	Include - Annual
RW-2151H	601048.98	410194.52	4571	300	2022	30	12	TCE	No	Yes (TCE)	Decreasing	None	Include - Annual
RW-2172F	603451.12	410506.72	4545	100	2022	29	6	No	No	No	N/A	None	Include - Biannual
RW-2172H	601343.83	410331.91	4552	300	2022	30	9	Both	Yes (TCE)	Yes (TCE)	Decreasing	None	Include - Annual
RW-2203H	600946.89	410582.10	4542	0.8	2022	29	10	Both	Yes (TCE)	Yes (TCE)	Decreasing	None	Include - Annual
RW-2213F	603003.31	410689.99	4533	200	2020	5	4	N/A	No	No	N/A	None	Include - Annual
RW-2237H	600946.28	410646.63	4532	300	2022	30	7	Both	Yes (TCE)	Yes (TCE)	Decreasing	None	Include - Annual
RW-2879M	596669.00	414104.78	4604	300	2022	6	5	No	No	No	N/A	None	Remove
RW-5898B1	593134.42	418944.16	4487	300	2021	28	12	N/A	No	No	Decreasing	Reduce	Remove
RW-7070B	596184.00	415892.25	4523	100	2021	3	3	N/A	No	No	Decreasing	Reduce	Remove
RW-7091R	596242.44	416046.04	4505	100	2021	2	2	N/A	No	No	N/A	Reduce	Remove
RW-7200P	602934.13	410945.27	4512	90	2022	2	2	No	No	No	N/A	None	Include - Biannual
RW-7244P	602684.69	411018.74	4513	100	2021	5	4	N/A	No	No	N/A	Remove	Remove
RW-7350P	602268.67	411019.73	4527	300	2021	5	4	N/A	No	No	N/A	Remove	Remove
RW-7505P	601500.56	410668.29	4536	300	2022	30	10	TCE	No	No	No trend	None	Include - Annual
RW-7549P	601215.93	410767.15	4524	300	2022	30	17	No	No	No	Decreasing	None	Include - Biannual
RW-7586P	601324.00	411058.45	4516	200	2021	5	4	N/A	No	No	N/A	Remove	Remove
RW-7588P	601021.80	411873.88	4495	200	2021	5	4	N/A	No	No	N/A	Remove	Remove
RW-7677P	600430.68	411242.85	4523	100	2022	30	13	Both	No	Yes (TCE)	No trend	None	Include - Annual
RW-7688P	600621.78	411461.05	4515	100	2022	6	5	No	No	No	N/A	None	Remove
RW-7773P	599798.81	411863.98	4528	100	2022	6	6	No	No	No	N/A	None	Include - Biannual
RW-8000B	596489.98	415079.60	4516	Unknown	2021	30	9	N/A	No	No	Stable	Remove	Remove
RW-8012P	598779.95	412267.43	4521	200	2022	27	10	No	No	No	Stable	None	Include - Biannual
RW-8030P	598670.00	412304.15	4521	200	2022	30	48	Both	No	Yes (TCE)	Decreasing	None	Include - Annual
RW-8035P	597627.73	411942.38	4569	300	2021	5	5	N/A	No	No	N/A	Remove	Remove
RW-8048P	598316.55	412447.03	4523	300	2022	3	3	TCE	No	No	N/A	None	Include - Annual
RW-8105PS	597583.43	412452.72	4539	200	2022	6	5	No	No	No	N/A	None	Remove
RW-8209P	597141.45	412781.87	4562	500	2022	6	5	No	No	No	N/A	None	Remove
RW-8249P	597026.53	412964.39	4575	300	2021	5	4	N/A	No	No	Not calculated	None	Remove
RW-8284P	598141.93	412556.97	4524	300	2022	4	4	TCE	No	No	N/A	None	Include - Annual

Table 6-1
2023 Annual Offsite Sampling Plan
Fort Hall Mine Landfill

Notes:

Domestic well sampling is contingent upon continued consent to access.

Offsite Bannock County monitoring wells are sampled with the semiannual spring and fall groundwater sampling events. Sampling planning for these wells will be presented in associated monitoring reports.

^Coordinate system is Idaho State Plane East

~Dataset trends are not calculated for datasets with fewer than 6 data points or greater than 50% nondetect results. Trends are calculated with the Mann-Kendall statistical analysis.

*Sampling includes collection of field parameters (including pH, oxidation reduction potential, turbidity, dissolved oxygen, specific conductivity, and temperature) and collection of sample for VOC analysis by EPA Method 8260D.

Abbreviations:

bgs = below ground surface

COC = chemical of concern

EPA = United States Environmental Protection Agency

msl = mean sea level

N/A = not applicable or calculated

PCE = tetrachloroethene

TCE = trichloroethene

VOCs = volatile organic compounds

Appendix B

Field Documentation

EQUIPMENT CALIBRATION LOG

SITE NAME:

FHML

Instrument (Name/Model No./Serial No.):

PID RKL EX-6000 317040154#RN

Manufacturer:

RKI Instruments, INC

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/18/23	96.6 ppm	Isobutylene 100 ppm	X06N185CA341003 March 2028	—	100 ppm	Pass	Booker
7/18/23	49 LEL	50% CH ₄ 44 LEL	" "	—	50% LEL	Pass	Booker
7/19/23	46.5	50% CH ₄	" "	—	50%	Pass	Booker
1	97.5	Isobut.	" "	—	100 ppm	Pass	Booker
7/20/23	47	50% CH ₄	" "	—	50% LEL	Pass	Booker
1	91	100 ppm Isobut.	" "	—	100 ppm	Pass	Booker
7/21/23	46% LEL	50% CH ₄	" "	—	47%	Pass	Booker
1	95.7 ppm	100 ppm Isobutyl	" "	—	95.6	Pass	Booker
7/22/23	42% LEL	50% CH ₄	" "	+7	50%	Pass	Booker
1	94.2	100 ppm Isobutyl	" "	+4.6	98.8	Pass	Booker
7/23/23	52	50%	" "	—	50%	Pass	Booker
↓	103.6	100 ppm	" "	—	100 ppm	Pass	Booker

FHML

EQUIPMENT CALIBRATION LOG

SITE NAME: _____

Instrument (Name/Model No./Serial No.):

PID RKI GX-6000 317040190RN

Manufacturer:

RKI Instruments, INC.

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/18/23	45% LFL	CH ₄ 50% LFL	X06N18SCA31003 March 2025	—	48 LFL	Pass	[Signature]
7/18/23	96.7 ppm	Isobutylene 96.7 100 ppm	" "	—	97.3	Pass	[Signature]
7/19/23	46	CH ₄	X06N18SCA31003 MAR-25		47	pass	[Signature]
7/19/23	94	isobutylene	↓		96	pass	[Signature]
7/20/23	48%	50% CH ₄	" "	—	49	Pass	[Signature]
1	94.8 ppm	Isobutylene	" "	—	95.1	Pass	[Signature]
7/21/23	47% LFL	50% CH ₄	" "	—	50%	Pass	[Signature]
1	95.1 ppm	100 ppm Isobutylene	" "	—	100.6 ppm	Pass	[Signature]
7/22/23	49% LFL	50% CH ₄	" "	+1	50%	✓	[Signature]
1	100 ppm	100 ppm Isobutylene	" "	—	100 ppm	✓	[Signature]

EQUIPMENT CALIBRATION LOG

SITE NAME: Barnack

1 of 2

Instrument (Name/Model No./Serial No.): meter: 14J101212 probe: 90429Manufacturer: YSI inc

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/18/23	1400	1409 mmHg/cm	8301404 2/7/25	N	1409	P	HR
7/18/23	7.07	7.0	8303159 3/28/25	N	7.00	P	HR
7/18/23	4.18	4.0	8302216 3/2/25	N	3.99	P	HR
7/18/23	9.45	10.0	8302442 3/9/25	N	10.0	P	HR
7/18/23	255	220mV	14859 3/23/23	N	220.6	P	HR
7/18/23	102.2%	—	—	N	100.2%	P	HR
7/19/23	86%	—	—	Y	100.5%	P	HR
↓	1.409	1409	*	N	1.409	P	HR
↓	7.22	7.0	*	N	6.99	P	HR
↓	9.5	10.0	*	Y	10.01	P	HR
↓	4.46	4.0	*	N	4.00	P	HR
↓	216.4	220	*	N	220.3	P	HR
7/20/23	95.4%	—	—	N	100.9%	P	HR
↓	1.409	1409	*	N	1409	P	HR

212.3

220

*

4.5

4.0

*

6.6

7.0

*

9.65

10.0

*

N

N

N

N

220.6

3.96

7.01

10.03

P

P

P

P

HR

HR

HR

HR

EQUIPMENT CALIBRATION LOG

2 of 2

SITE NAME: BannockInstrument (Name/Model No./Serial No.): meter: 14J101212 probe: 90429Manufacturer: YSI inc

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/21/23	89.2%	—	—	NO	100%	P	HR
7/21	7.44	7.0	8303159 3/28/25	NO	7.00	P	HR
7/21	3.61	4.0	8302216 3/2/25	NO	4.00	P	HR
7/21	9.51	10.0	8302442 3/9/25	NO	9.97	P	HR
7/21	230.3	220 mV	14839 3/23/24	NO	220.0	P	HR
7/21	1404	1409	8301404 6/4/23	NO	1409	P	HR
7/22	126.4%	—	—	NO	100.0%	P	HR
	226.4 220	220 mV	14839 3/23/24	No	220.0	P	HR
	1349	1409 $\frac{\mu\text{mho}}{\text{cm}}$	8301404 2/7/25	No	1409	P	HR
	7.32	7	8303159 3/28/25	No	6.99	P	HR
	3.68	4	8302216 3/2/25	No	3.99	P	HR
✓	9.35	10	8302442 3/9/25	No	9.95	P	HR

EQUIPMENT CALIBRATION LOG

SITE NAME:

Bannock

Instrument (Name/Model No./Serial No.):

YSI 556 U113965X

Manufacturer:

YSI incorporated

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/18/23	1409	1409	8301404 2/7/25	No	1409	Pass	<i>[Signature]</i>
	7.02	7	8301162 1/24/25	No	7	Pass	<i>[Signature]</i>
	4.05	4	8206104 6/2/24	No	4	Pass	<i>[Signature]</i>
	9.84	10	8204444 5/9/24	No	10	Pass	<i>[Signature]</i>
↓	246	220	14839 3/23/24	Yes	220	Pass	<i>[Signature]</i>
↓	95.4%	—	—	Yes	100%	Pass	<i>[Signature]</i>
7/19/23	58.6%	—	—	yes	100.5%	pass	<i>[Signature]</i>
	4.5 7.3	7	8301162 1/24/25	No	7.00	pass	<i>[Signature]</i>
	3.87	4	8206104 6/2/24	No	4.00	pass	<i>[Signature]</i>
	10.02	10	8204444 5/9/24	No	10.01	pass	<i>[Signature]</i>
	216.1	220 mV	14839 3/23/24	No	220.0	pass	<i>[Signature]</i>
↓	1388	1409 $\mu\text{mho}/\text{cm}$	8301404 2/7/25	No	1410	pass	<i>[Signature]</i>
7/20/23	90%	—	—	No	100.8%	pass	<i>[Signature]</i>
7/20/23	7.02	7	8301162 1/24/25	No	7.00	pass	<i>[Signature]</i>

EQUIPMENT CALIBRATION LOG

SITE NAME: BannockInstrument (Name/Model No./Serial No.): YSI 556 4113965XManufacturer: YSI inc

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/20/23	3.99	4	8206164 6/2/24	no	4.00	pass	H. C.
7/20/23	9.94	10	8204414 5/9/24	no	10.00	pass	H. C.
7/20/23	1399	1409 ^{standard HP} mbar/cm	8501404 2/7/25	no	1404	pass	H. C.
7/20/23	220.7	220 mV	14839 3/23/24	no	220.0	pass	H. C.
7/21/23	100% 110.5%	—	—	No	100.4%	P	J. C.
	7.76	7.0	8301162 1/24/25	No	7.04	P	J. C.
	10.51	10.0	8204414 5/9/24	No	10.01	P	J. C.
	4.18	4.0	8206164 6/2/24	No	4.0	P	J. C.
	1419	1409	8501404 2/7/25	No	1409	P	J. C.
	223.0	220	14839 3/23/24	No	220	P	J. C.
7/22/23	102.5%	—	—	No	100.5%	P	J. C.
	1.349	1409	* —	No	1409	P	J. C.
	6.80	7.0	* —	No	7.0	P	J. C.
	9.50	10.0	* —	No	10.0	P	J. C.
	4.39	4.0	* —	No	3.98	P	J. C.
	139	220	* —	No	231	P	J. C.

EQUIPMENT CALIBRATION LOG

SITE NAME: BannockInstrument (Name/Model No./Serial No.): YSI 0113965XManufacturer: YSI incorporated

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/23/23	6.99	7	8202442 3/7/24	NO	7.0	Pass	Robert Weed
↓	4.38	4	8202194 2/23/24	NO	4.08	Pass	Robert Weed
↓	9.87	10	8202569 3/10/24	NO	10.07	Pass	Robert Weed
↓	1450	1409	110507 7/20/24	NO	1409	Pass	Robert Weed
↓	217.0	220 mV	14839 3/23/24	NO	220.0	Pass	Robert Weed
↓	95.7	-	-	NO	100.2	Pass	Robert Weed

EQUIPMENT CALIBRATION LOG

SITE NAME: FHMLInstrument (Name/Model No./Serial No.): Turbidimeter HI 98703 E0008959Manufacturer: Hanna

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/18/23	-	<0.1 NTU	7098 8/25	-	0.12 NTU	✓	<i>Deek Sange</i>
	-	15 NTU	7088 2/25	-	14.9	✓	<i>Deek Sange</i>
	-	100 NTU	7085 2/25	-	100 NTU	✓	<i>Deek Sange</i>
	-	750 NTU	7093 2/25	-	748 NTU	✓	<i>Deek Sange</i>
7/19/23	-	<0.1 NTU	7098 8/25	-	0.13 NTU	✓	<i>Deek Sange</i>
	-	15 NTU	7088 2/25	-	15 NTU	✓	<i>Deek Sange</i>
	-	100 NTU	7085 2/25	-	100 NTU	✓	<i>Deek Sange</i>
	-	750 NTU	7093 2/25	-	756 NTU	✓	<i>Deek Sange</i>
7/20/23	-	<0.1 NTU	7098 8/25	-	0.10 NTU	✓	<i>Deek Sange</i>
	-	15 NTU	7088 2/25	-	15 NTU	✓	<i>Deek Sange</i>
	-	100 NTU	7085 2/25	-	99.7 NTU	✓	<i>Deek Sange</i>
	-	750 NTU	7093 2/25	-	744 NTU	✓	<i>Deek Sange</i>
7/21/23	-	<0.1 NTU	7098 8/25	-	0.12	✓	<i>Deek Sange</i>
	-	15 NTU	7088 2/25	-	14.6	✓	<i>Deek Sange</i>
	-	100 NTU	7085 2/25	-	99.8	✓	<i>Deek Sange</i>
	-	750 NTU	7093 2/25	-	749	✓	<i>Deek Sange</i>

EQUIPMENT CALIBRATION LOG

SITE NAME:

Instrument (Name/Model No./Serial No.):

Manufacturer: HANNA

86 7125

EQUIPMENT CALIBRATION LOG

SITE NAME:

FHML

Instrument (Name/Model No./Serial No.):

Turbidimeter HI98703 06120003101

Manufacturer:

Hanna

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/18/23	-	<0.1 NTU	22180111 9/23	-	0.14 NTU	✓	Book Sample
	-	15 NTU	22110201 9/23	-	14.7 NTU	✓	Book Sample
	-	100 NTU	22110203 9/23	-	99.9 NTU	✓	Book Sample
	-	750 NTU	22120053 9/23	-	750 NTU	✓	Book Sample
7/19/23	-	<0.1 NTU	22180111 9/23	-	0.13 NTU	✓	Book Sample
	-	15 NTU	22110201 9/23	-	15.1 NTU	✓	Book Sample
	-	100 NTU	22110203 9/23	-	100 NTU	✓	Book Sample
	-	750 NTU	22120053 9/23	-	750	✓	Book Sample
7/20/23	-	<0.1 NTU	22180111 9/23	-	0.15 NTU	✓	Book Sample
	-	15 NTU	22110201 9/23	-	15.0 NTU	✓	Book Sample
	-	100 NTU	22110203 9/23	-	99.8 NTU	✓	Book Sample
	-	750 NTU	22180111 9/23 22120053 9/23	-	749 NTU	✓	Book Sample
7/21/23	-	<0.1 NTU	22180111 9/23	-	0.14 NTU	✓	Book Sample
	-	15 NTU	22110201 9/23	-	15.2 NTU	✓	Book Sample
	-	100 NTU	22110203 9/23	-	101 NTU	✓	Book Sample
	-	750 NTU	22120053 9/23	-	741 NTU	✓	Book Sample

EQUIPMENT CALIBRATION LOG

SITE NAME:

FHML

Instrument (Name/Model No./Serial No.):

Turbidimeter / HI 98703 / 06120003101

Manufacturer:

HANNA

Calibration Date	Initial Setting	Standard/ Gas Used (Concentration)	Lot Control No. Expiration Date	Adjustments Made	Final Reading	Comments Pass/Fail	Signature
7/22/23	-	0.1 NTU	22180111 9/23	-	0.16 NTU	Pass	<i>Josh Guage</i>
	-	15 NTU	22110201 9/23	-	15.3 NTU	Pass	<i>Josh Guage</i>
	-	100 NTU	22110203 9/23	-	99.6 NTU	Pass	<i>Josh Guage</i>
	-	750 NTU	22120053 9/23	-	752 NTU	Pass	<i>Josh Guage</i>
7/23/23	-	<0.1 NTU	22180111 9/23	-	0.18	Pass	<i>JA</i>
	-	15 NTU	↓	↓	14.9	Pass	
	-	100 NTU	↓	↓	91.6	↓	
↓	-	750 NTU	↓	↓	753	↓	

GROUNDWATER MONITORING WELL LOW-FLOW SAMPLING DATA SHEET

Site Name: FHML

Date: 7/19/23

OVM: FID ☐ PID ☒ In Casing (ppm): (Initial) 0.9

(Vented to) _____

Well ID: MP-2

At 0924:

Purging/Sampling Device: Portable pump

Pump depth (ft bgs): 80 ✓

Initial Static Water Level (feet btoc): 67.55 67.95

VOCs (8260D), TOC (9060A), Dissolved Gases, Anions/Bromide, Quantarray,

Analytical Parameters: Ferrous iron

Final Water Level (feet btoc): 67.29

QC Samples Collected: None

Purge Start Time: 0916

Ferrous Iron (mg/L): — *

Allowable Drawdown (ft): 0.1 - No allowable drawdown

Sample Time: 1010

Controller Settings: Recharge: 16 secs Discharge: 4 secs Pressure: 45 psi

Samplers' Signatures: Emma Ehret

[Signature]

SEND SAME DAY

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
0940	67.09	17.53	6.23	2083	7.87	-3.8	8.64	100	
0945	67.12	17.32	6.31	2096	5.51	1.4	7.81	120	0.8 gal/min purge for 0.1 ft dd
0950	67.15	17.42	6.36	2094	5.26	-0.8	8.06	120	
0955	67.20	17.46	6.46	2096	5.42	2.8	6.68	100	1 gal purged (~0.25 dd)
1000	67.18	17.43	6.51	2095	5.61	6.1	6.17	120	
1005	67.19	17.64	6.53	2084	5.64	7.7	6.01	120	<0.3 ft dd, 0.9 gal/min purge exceeded
1010	SAMPLE	—	—	—	—	—	—	—	1.9 gal purged

Casing Volume Calculations:

Water Col. X Casing Factor = Gallons per Casing Volume

Casing Factors: 2" diameter well: 0.16 / 4" diameter well: 0.65 / 6" diameter well: 1.47

Previous controller settings: Recharge: 16 secs Discharge: 4 secs

Pressure: 40 psi

Cycles Per Minute: 3

Flow Rate: 150-200 mL/min

Screened Interval: 50-90

Minimum purge volume: 0.7

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

* DE900 displayed "---" even after several attempts, & it was zeroed. Water had a slight orange hue after packet mixed.

GROUNDWATER MONITORING WELL LOW-FLOW SAMPLING DATA SHEET

Site Name: FHML

Date: 7/23/23

OVM: FID ☐ PID ☒ In Casing (ppm): (Initial) _____ (Vented to) _____

Well ID: MW-116S

Purging/Sampling Device: Portable pump

Pump depth (ft bgs): 85

Initial Static Water Level (feet btoc): 59.26

Analytical Parameters: VOCs 8260D

Final Water Level (feet btoc): _____

QC Samples Collected: None

Purge Start Time: 1239

Ferrous Iron (mg/L): NA Allowable Drawdown (ft): 0.1

Sample Time: 1355

Controller Settings: Recharge: 14 secs Discharge: 6 secs Pressure: 70 psi

Samplers' Signatures: Emma Ehret

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1300	58.76	13.86	7.06	1.644	13.82	16.8	5.09	300	* wrong measurement recorded minimum purge met. for ORP
1305	58.76	13.51	7.12	1.643	13.81	-33	3.06	300	
1310	58.76	13.64	7.05	1.048	13.69	-31.9	1.96	300	
1315	58.80	13.49	6.95	1.045	21.11	35.9	1.96	300	
1321	58.80	13.33	7.03	1.053	18.40	66.9	1.56	300	
1327	59.02	13.61	7.01	1.052	-0.45	77.2	0.25	300	
1333	59.02	13.59	6.95	1.051	14.01	90.6	1.57	300	
1340	59.02	13.56	6.92	1.055	0.04	91.3	1.56	300	
1347	59.02	13.54	6.91	1.051	0.12	92.0	1.49	300	
1355	SAMPLE								

Casing Volume Calculations:

Water Col. X Casing Factor = Gallons per Casing Volume

Casing Factors: 2" diameter well: 0.16 / 4" diameter well: 0.65 / 6" diameter well: 1.47

Previous controller settings: Recharge: 14 secs Discharge: 6 secs

Pressure: 60 psi Cycles Per Minute: 3 Flow Rate: 50-100 mL/min

Screened Interval: 78-93 ft bgs Minimum purge volume: 0.7 gallons

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

GROUNDWATER MONITORING WELL LOW-FLOW SAMPLING DATA SHEET

1/2
(flip)

Site Name: FHML Date: 7/19/23

OVM: FID ☐ PID ☒ In Casing (ppm): (Initial) _____ (Vented to) _____

Well ID: MW-118D

Purging/Sampling Device: Dedicated pump Pump depth (ft bgs): 88

Initial Static Water Level (feet btoc): 85.38

Analytical Parameters: VOCs (8260D), TOC (9060A), Dissolved Gases, Anions/Bromide

Final Water Level (feet btoc): 85.40

QC Samples Collected: None

Purge Start Time: 855

Ferrous Iron (mg/L): — Allowable Drawdown (ft): 0.1

Sample Time: 1100

Controller Settings: Recharge: 10 sec ^{7/19} Discharge: 4 sec Pressure: 50 psi

Samplers' Signatures: [Signature]

Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
915	85.40	12.99	6.63	2675	2.25	112.0	0.67	200	Min. purge met
920	85.40	13.01	6.65	2709	2.09	106.1	0.38	200	
925	85.40	13.12	6.66	2727	1.97	101.2	0.37	200	
930	85.40	13.19	6.66	2739	1.85	97.7	0.41	200	
935	85.40	13.20	6.66	2755	1.73	94.3	0.32	200	
940	85.40	13.27	6.67	2767	1.67	91.1	0.38	200	
945	85.40	13.32	6.67	2773	1.55	88.9	0.32	200	
955	85.40	13.37	6.68	2794	1.38	84.1	0.25	200	
1005	85.40	13.27	6.68	2800	1.23	80.2	0.23	200	
1020	85.40	13.70	6.68	2795	0.81	66.8	0.27	200	
1025	85.40	13.53	6.69	2810	0.66	56.1	0.24	200	
1030	85.40	13.54	6.69	2816	1.40	48.1	0.22	200	
1035	85.40	13.62	6.69	2823	1.03	34.3	0.36	200	
1045	85.40	13.72	6.70	2815	1.14	21.3	0.43	200	cont'd on next page

Casing Volume Calculations:

Water Col. X Casing Factor = Gallons per Casing Volume

Casing Factors: 2" diameter well: 0.16 / 4" diameter well: 0.65 / 6" diameter well: 1.47

Previous controller settings: Recharge: 15 sec Discharge: 5 sec

Pressure: 50 psi Cycles Per Minute: 3 Flow Rate: 300-400 mL/min

Screened Interval: 82-102 ft bgs Minimum purge volume: 0.7 gallons

Final Purge Vol: 2.5 gallons

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

Time	WL	Temp.	pH	Specific Cond.	DO	ORP	Turb.	Flow rate
1050	85.40	13.69	6.70	2818	1.02	16.3	0.26	200
1055	85.40	13.74	6.74	2818	-0.48	16.7	0.35	200

*DO has continually gone up + down while everything stabilized, will be sampling even though DO does not meet requirements

GROUNDWATER MONITORING WELL LOW-FLOW SAMPLING DATA SHEET

Site Name: FHML

Date: 7/19/23

OVM: FID ☐ PID ☒ In Casing (ppm): (Initial) 0 (Vented to) Ø

Well ID: MW-120D

Purging/Sampling Device: Dedicated pump Pump depth (ft bgs): 91.5

Initial Static Water Level (feet btoc): 77.41

Analytical Parameters: VOCs (8260D), TOC (9060A), Dissolved Gases, SW 9056A

Final Water Level (feet btoc): 79.52

QC Samples Collected: FD

Purge Start Time: 1410

Ferrous Iron (mg/L): NA Allowable Drawdown (ft): 0.3

Sample Time: 1605

Controller Settings: Recharge: 56 secs Discharge: 4 secs Pressure: 43 psi

Samplers' Signatures: [Signature]

Cycles Per Minute: 1

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1550	79.55	20.62	6.91	1216	0.86	37.6	4.55	40	min purge vol met
1555	79.56	20.64	6.89	1218	0.84	37.8	3.70	40	
1600	79.52	20.78	6.92	1219	0.81	38.3	3.52	40	
1605	SAMPLE								
1605	FIELD DUPLICATE								

Casing Volume Calculations:

Water Col. X Casing Factor = Gallons per Casing Volume

Casing Factors: 2" diameter well: 0.16 / 4" diameter well: 0.65 / 6" diameter well: 1.47

Previous controller settings: Recharge: 14.5 secs Discharge: 5.5 secs

Pressure: 50 psi Cycles Per Minute: 3 Flow Rate: 200-250 mL/min

Screened Interval: 90-100 ft bgs Minimum purge volume: 0.8 gallons

0.8 x 1.1 = 1.9 gal (3985 mL/gal) - 7192 mL / 45 min = 160 min HR 7/19

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

GROUNDWATER MONITORING WELL LOW-FLOW SAMPLING DATA SHEET

Site Name: FHML

Date: 7/18/23

OVN:

FID ☐ PID ☒

In Casing (ppm): (Initial) 1.5 (truck nearby)

(Vented to) 0

Well ID: MW-124

Purging/Sampling Device: Portable pump

Pump depth (ft bgs): 75

Initial Static Water Level (feet btoc): 61.45

Analytical Parameters: VOCs (8260D), TOC (9060A), Dissolved Gases, SW 9056A, Quantarray, Ferrous Iron

Final Water Level (feet btoc): 62.2

QC Samples Collected: None

Purge Start Time: 1025

Ferrous Iron (mg/L): 2.29

Allowable Drawdown (ft): TBD

Sample Time: 1255

Controller Settings: Recharge: 10 secs Discharge: 5 secs Pressure: 45 psi

Samplers' Signatures: Emma Elvert, Hannah Rolston

SEND SAME DAY

Cycles Per Minute: 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1040	61.47	16.99	6.46	2048	3.73	-99.0	18.7	175	
	61.59							<50	adjusting controller settings
1105	61.62	19.87	6.58	2043	5.50	-54.0	18.7	~90	0.8 gal purged
1120	61.64	19.75	6.64	2039	5.62	-57.3	35.7	~90	adjust vents to controller settings
1125	61.66	19.26	6.68	2034	6.54	-58.4	32.0	~90	
1130	61.68	19.18	6.76	2033	7.07	-60.6	31.9	90	1.5 gal purged - (minimum 1.1)
1135	61.69	19.31	6.66	2034	7.93	-63.0	33.4	90	
1140	61.71	19.1	6.80	2032	8.28	-67.7	32.2	90	air bubbles in flow cell
1215	61.87	18.69	6.82	2027	11.05	-73.0	36.0	90	high DO
1220	61.89	18.85	6.87	2025	10.90	-72.7	38.1	90	3.3 gal purged (min 1.5)
1240	61.97	18.20	6.90	2014	11.34	-81.8	40.1	125	added plumber tape to YSI seal
1245	61.99	18.17	6.97	2011	11.25	-81.3	40.9	140	unclear reason for flow rate increase
1250	62.0	18.31	6.91	2009	10.92	-82.2	41.2	140	black precipitates in bucket
1255	SAMPLE								Total purge = 4.5 gal; After sampling: 5.25 gal

Casing Volume Calculations:

Water Col. X Casing Factor = Gallons per Casing Volume

Casing Factors: 2" diameter well: 0.16 / 4" diameter well: 0.65 / 6" diameter well: 1.47

Previous controller settings: Recharge: SECS Discharge: SECS

Pressure: psi

Cycles Per Minute:

Flow Rate: mL/min

Screened Interval: 60 - 90

Minimum purge volume: 0.8

Assuming
down

* Sensitive to controller changes

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

- Approx 0.1 ft drawdown every 20 min
- Cleaned YSI, applied plumbers tape to connectors & bottom of cup/cell
- Near to IW-001; black precipitates in bucket - sulfides? iron from ZVI? DO readings were not consistent

⊗ Final purge vol: 5.25 gal

GROUNDWATER MONITORING WELL LOW-FLOW SAMPLING DATA SHEET

Site Name: FHML

Date: 7/18/23

OVM: FID ☐ PID ☒ In Casing (ppm): (Initial) 0 (Vented to) 0

Well ID: MW-125

Purging/Sampling Device: Portable pump Pump depth (ft bgs): 75

Initial Static Water Level (feet btoc): 107.80

Analytical Parameters: VOCs (8260D), TOC (9060A), Dissolved Gases, SW 9056A, Quantarray, ferrous iron

Final Water Level (feet btoc): 68.35

QC Samples Collected: None

Purge Start Time: 1018

Ferrous Iron (mg/L): 0.036 Allowable Drawdown (ft): TBD

Sample Time: 1135

Controller Settings: Recharge: 12 secs Discharge: 3 secs Pressure: 50 psi

Samplers' Signatures: [Signature] [Signature]

SEND SAME DAY

Cycles Per Minute: 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1023	68.10	15.2	6.81	2357	1.21	-10.7	7.78	280	
1034	68.26	14.8	6.38	2391	0.76	4.5	3.78	150	Minimum purge volume met
1039	68.31	14.64	6.53	2397	0.71	-1.0	4.39	150	
1044	68.25	15.38	6.62	2384	0.62	-3.1	3.70	80	
1049	68.28	16.40	6.75	2380	0.59	-8.2	3.50	40	
1054	68.27	15.10	6.81	2403	0.62	-10.1	4.85	160	
1059	68.30	14.86	6.81	2390	0.53	-9.0	2.27	160	
1104	68.31	14.94	6.84	2390	0.46	-9.8	3.81	160	
1109	68.32	14.86	6.86	2391	0.42	-9.8	2.17	160	
1114	68.32	14.92	6.87	2388	0.38	-10.2	2.22	160	
1119	68.32	15.05	6.88	2388	0.35	-10.5	1.38	160	
1124	68.32	15.12	6.89	2388	0.33	-10.4	1.96	160	
1129	68.33	15.10	6.90	2390	0.32	-10.0	1.51	160	Stabilized

Casing Volume Calculations:

Water Col. X Casing Factor = Gallons per Casing Volume

Casing Factors: 2" diameter well: 0.16 / 4" diameter well: 0.65 / 6" diameter well: 1.47

Previous controller settings: Recharge: 25 secs Discharge: 5 secs

Pressure: 45 psi Cycles Per Minute: 2 Flow Rate: 100 mL/min

Screened Interval: 60-90 ft bgs Minimum purge volume: 0.7

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

LOW FLOW SAMPLING DATA SHEET

Site Name: FHML Date: 7/22/23 OVM: FID ☐ PID ☒ In Casing (ppm): (Initial) 05 (Vented to) 0

Well ID: PA-3 Purging/Sampling Device: Bladder and Hydrasleeve Pump depth (ft btoc): 58

Initial Static Water Level (feet btoc): 35.75 Analytical Parameters: VOCs (8260B)

Final Water Level (feet btoc): 35.75 QC Samples Collected: MS/MSD

Purge Start Time: 1145 Ferrous Iron (mg/L): NA Allowable Drawdown (ft): 0.1

Sample Time: 1215 Controller Settings: Recharge: 12 secs Discharge: 8 secs Pressure: 50 psi

Samplers' Signatures: [Signature] Cycles Per Minute: 3

[illegible]

Screened Interval: 47.5-67.5 ft bgs Minimum purge volume: 0.6 gallons

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

GROUNDWATER MONITORING WELL LOW-FLOW SAMPLING DATA SHEET

Site Name: FHML Date: 7/22/23 OVM: FID ☐ PID ☒ In Casing (ppm): (Initial) 0.6 (Vented to) Ø

Well ID: PA-4 (Intermediate) Purging/Sampling Device: Bladder and Hydrasleeve Pump depth (ft btoc): 105

Initial Static Water Level (feet btoc): 51.05* Analytical Parameters: VOCs (8260)

Final Water Level (feet btoc): 51.05 QC Samples Collected: None

Purge Start Time: 0936 Ferrous Iron (mg/L): N/A Allowable Drawdown (ft): 0.1

Sample Time: 1100 Controller Settings: Recharge: 11 secs Discharge: 9 secs Pressure: 80 psi

Samplers' Signatures: Emma Ehret Jessica Yarch Cycles Per Minute: 3

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1005	50.80	14.72	6.59	803	-0.54	-98.0	0.59	200	minimum purge met
1015	50.90	14.47	6.90	804	-0.44	-127.1	1.07	225	
1020	50.90	14.34	6.99	805	-0.40	-132.0	0.67	225	
1040	50.90	14.79	7.20	811	11.13	-115.0	0.88	225	re-calibrated DO%, just reconnected
1045	50.90	14.68	6.89	807	9.19	-129.7	1.82	225	
1050	50.90	14.73	6.92	808	8.88	-131.5	1.06	225	
1055	50.88	14.94	6.95	807	8.41	-130.0	1.19	225	
1100	SAMPLE								Total vol purged = 5 gal

* All water levels were higher this year, very wet spring.

Casing Volume Calculations:

Water Col. X Casing Factor = Gallons per Casing Volume

Casing Factors: 2" diameter well: 0.16 / 4" diameter well: 0.65 / 6" diameter well: 1.47

Previous controller settings: Recharge: 10 secs Discharge: 5 secs

Pressure: 65 psi Cycles Per Minute: 4 Flow Rate: 300-400 mL/min

Screened Interval: 100-110 ft bgs Minimum purge volume: 0.9 gallons

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

Shallow interval?

GROUNDWATER MONITORING WELL LOW-FLOW SAMPLING DATA SHEET

Site Name: FHML

Date: 7/22/23

OVM: FID ☐ PID ☒ In Casing (ppm): (Initial) 81

(Vented to) ✓

Well ID: PA-8 (Intermediate)

Purging/Sampling Device: Bladder and Hydrasleeve

Pump depth (ft btoc): 82

Initial Static Water Level (feet btoc): 23.94 24.00

Analytical Parameters: VOCs (8260)

Final Water Level (feet btoc): 23.96

QC Samples Collected: None

Purge Start Time: 1225 1004

Ferrous Iron (mg/L): Allowable Drawdown (ft): 0.1

Sample Time: 1110

Controller Settings: Recharge: 10 secs Discharge: 5 secs Pressure: 75 psi

Samplers' Signatures: Emma Elvett

Cycles Per Minute: 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (µs/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1018	23.93	11.20	7.40	464	21.22	-136.7	2.67	400	minimum purge volume met
1031	23.75	11.50	8.08	462	-0.47	-160.3	2.88	400	(*) Attempted to recalibrate DO
1035	23.75	11.44	8.05	459	-0.43	-159.6	1.69	350	
1040	23.85	11.49	5.61	457	-0.04	-33.0	2.37	350	
1045	23.88	11.63	5.70	459	-0.04	-36.0	2.67	350	
1056	23.88	11.92	8.16	466	-0.32	-157.3	3.88	350	Air bubbles in water line; detached YSI.
1100	23.88	11.67	8.12	462	-0.29	-164.6	4.31	350	
1105	23.91	11.52	8.12	462	-0.29	-164.7	5.09	350	
1110	SAMPLE								

Casing Volume Calculations:

Water Col. X Casing Factor = Gallons per Casing Volume

Casing Factors: 2" diameter well: 0.16 / 4" diameter well: 0.65 / 6" diameter well: 1.47

Previous controller settings: Recharge: 10 secs Discharge: 5 secs

Pressure: 70 psi

Cycles Per Minute: 4

Flow Rate: 350-400 mL/min

Screened Interval: 77-87 ft bgs Minimum purge volume: 0.7 gallon

77-87

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

REMEDATION SYSTEM SAMPLING
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Date: 7/19/23			Samplers: Hannah Rodston, Jessica Vaich									
Well	Operating? (Y/N)	Reading Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Pressure (psi)	Ferrous Iron (mg/L)	Sample Time	Comments
RW-4					8					NA		
RW-5										NA		
RW-9R										NA		
RM-10										NA		
RW-15	Y	17:40	13.	6.60	3.22	1619	1.99	52.9	22.5	NA	1740	
RW-17										NA		
INJ-1R										NA		
INF-COM	N											
RW-1	N											
RW-2	N											
RW-3	N											

Notes:

RW-4, RW-5, RW-9R, RW-10, RW-15, and RW-17 are sampled only for VOCs (EPA Method 8260B).

INJ-1R sampled for VOCs(8260B, 8011), SVOCs(8270, 8270SIM), Metals, O/C, O/P, PCBs, Herbicides (8151,8321), Dioxins/Furans, Mercury, Sulfide, and Cyanide

RW-15 will be sampled for TOC

1/2

GROUNDWATER MONITORING WELL LOW-FLOW SAMPLING DATA SHEET

Site Name: FHML Date: 7/19/23 OVM: FID ☐ PID ☒ In Casing (ppm): (Initial) 0.9 (Vented to) 0.6

Well ID: RW-2203H Purging/Sampling Device: Portable bladder pump

Initial Static Water Level (feet btoc): 50.47 (after pump install) Analytical Parameters: VOCs

Final Water Level (feet btoc): 50.50 QC Samples Collected: None

Purge Start Time: 1440 Sample Number: _____

Sample Time: 1725 Controller Settings: Recharge: 10 secs Discharge: 5 secs Pressure: 45 psi

Samplers' Signatures: Donk Sany Cycles Per Minute: 4

Time	Water Level (ft btoc)	Temperature (Degrees C)	pH	Specific Cond. (µS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (mL/min)	Comments
1508	50.41	15.77	7.03	935	6.81	-79.0	172	250	Purge volume 1.8 gal
1513	50.42	15.99	7.05	933	7.20	-74.4	170	250	water is slightly orange
1519	50.42	15.40	7.07	943	7.91	-71.9	170	250	
1524	50.42	14.43	6.96	938	8.81	-56.5	188	250	
1530	50.42	14.93	7.05	940	8.99	-53.3	166	250	
1535	50.43	14.75	7.09	944	9.66	-47.5	165	250	4 gal purged
1543	50.43	14.90	7.08	949	9.16	-35.9	162	250	
1548	50.43	14.85	7.14	950	9.53	-33.1	159	250	
1605	50.43	No reading							change to 4cpm, 10/5
1610	STOP								
1625	Restart								
1640	50.45	14.27	7.32	966	10.31	6.3	163	200-275	~8 gal purged, no drawdown
1645	50.45	14.24	7.33	971	10.34	5.5	157	275	water still has orange hue
1650	50.45	14.20	7.29	968	10.47	9.4	157	300	

Casing Volume Calculations:

Water Col. X Casing Factor = Gallons per Casing Volume

Casing Factors: 2" diameter well: 0.16 / 4" diameter well: 0.65 / 6" diameter well: 1.47

Previously used

Controller Settings: Recharge: 5 secs Discharge: 5 secs Pressure: 80 psi

Depth of pump (ft btoc): 75 Cycles Per Minute: 6

Add: Allowable drawdown of 0.1 for min purge 0.8

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature ± 1° C DO ± 10 %
pH ± 0.1 pH unit ORP ± 10mV
Conductivity ± 10 % Water Level ± 0.1 foot
Turbidity < 50 NTU

Minimum purge volume (gallon): 0.8

$$\frac{2}{2}$$

Date: 7/19/23

OVM: FID ☐ PID ☒ In Casing (ppm): (Initial) 0.9 (Vented to) 0.6

Analytical Parameters: VOCs

(after pump install)

QC Samples Collected: None

Final Water Level (feet btoc): 50.50

Purge Start Time: 1440

Sample Number:

Sample Time: 1725

Controller Settings: Recharge: 10 secs Discharge: 5 secs Pressure: 45 psi

Samplers' Signatures: W. K. Gump

Cycles Per Minute: 4

Casing Volume Calculations:

$$\text{Water Col. X Casing Factor} = \text{Gallons per Casing Volume}$$

Casing Factors: 2" diameter well: 0.16 / 4" diameter well: 0.65 / 6" diameter well: 1.47

Previously used

Controller Settings: Recharge: 5 secs Discharge: 5 secs Pressure: 80 psi

Cycles Per Minute: 6

Depth of pump (ft btoc): 75

Temperature	± 1° C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10mV
Conductivity	± 10 %	Water Level	± 0.1 foot
		Turbidity	< 50 NTU

Minimum purge volume (gallon): 28

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-7505P	Date: 7/20/23	Samplers: Derek Savage, Hannah Peltier
Tap Location: Side of cinder-block shed behind carport; purge water on large spruce & cedar trees in the rocks		
Well Diameter (inches): _____	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = 300 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons) No well information. Assume 300 gal adequate.
Total Depth of Well (feet): _____ (-)		
Depth to Water (feet): _____		
Water Column Height (feet): _____ (x)		

Purge Rate (gallon/minute): 13.6 gpm	Begin Purge (time): 15:42
Required Purge Time (minute): 22 min	End Purge (time): 14:04 16:04

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
14:05 16:05	12.90	7.76	10.41	715	1.18	53.1	
16:10	12.97	7.70	9.64	710	2.42	47.8	
16:15	13.37	7.67	8.89	709	2.23	40.2	
16:20	12.68	7.66	9.10	708	2.13	37.8	
16:25	SAMPLE —————						

Sample ID: RW-7505P-20230720	Sample Time: 1625 (both N + Q)
QC Samples Collected: FD RW-7505P-Q-20230720	
Analytical Parameters: VOCs	

**CDM
Smith**

93' to bottom of submersible pump (new info from Mike)
 ↳ they had to pull it last year

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: **RW-7549P** Date: **7/21/23** Samplers: **EE, DS**

Tap Location: **Northern most spigot next to large rocks in front lawn**

Well Diameter (inches):	_____	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = <u>300</u> 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)
Total Depth of Well (feet):	_____ (-)		
Depth to Water (feet):	_____		
Water Column Height (feet):	_____ (x)		

Purge Rate (gallon/minute): 8.3 Begin Purge (time): 1537
 Required Purge Time (minute): 36 End Purge (time): 1613

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1615	13.23	7.61	9.60	764	2.84	9.6	
1620	12.93	7.47	8.72	759	5.61	12.4	
1625	13.00	7.44	8.67	759	2.79	-14.6	
1630	13.30	7.44	8.48	754	3.53	-17.7	
1635	13.19	7.48	8.30	756	3.14	-22.7	
1640	SAMPLE						

Sample ID: **RW-7549P-20230721** Sample Time: **1640**

QC Samples Collected: **None**

Analytical Parameters: **VOCs**

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCAHELLO, ID

Well No.: **RW-7677P** Date: **7/21/23** small dial on side of Samplers: **EE, HR, JY**

Tap Location: Control box behind the house, switch to "Hand"; spigot directly behind house

Well Diameter (inches):	<u>6</u>	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = <u>100</u> 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)
Total Depth of Well (feet):	<u>60</u> (-)		
Depth to Water (feet):	<u> </u>		
Water Column Height (feet):	<u> </u> (x)		

Purge Rate (gallon/minute): 37.5 Begin Purge (time): 1430
 Required Purge Time (minute): 2.6 min. End Purge (time): 1433

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1440	13.01	7.05	21.10	878	1.08	-95.0	*Business closed
1445	12.60	6.90	15.73	866	22.4	-95.5	on Fridays
1450	12.60	6.87	14.25	868	2.52	-146.1	
1455	12.78	6.86	13.01	866	1.57	-85.1	
1500	12.95	6.88	10.68	853	3.22	-88.2	
1505	13.69	6.88	11.60	864	1.40	-88.2	
1510	14.10	6.88	10.43	860	0.76	-79.6	
1515	14.35	6.88	11.61	865	1.58	-78.2	
1520	14.46	6.90	11.75	865	0.67	-80.6	
1525	14.14	6.88	12.18	864	1.16	-79.2	

Sample ID: **RW-7677P-20230721** Sample Time: **1530**

QC Samples Collected: **None**

Analytical Parameters: **VOCs**

Open valves to avoid pump burnout

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-7773P Date: 7/21/23 Samplers: JL, HR

Tap Location: Near the old house

Well Diameter (inches):	<u>6</u>	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = <u>100</u> 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)
Total Depth of Well (feet):	<u>120</u> (-)		
Depth to Water (feet):	<u> </u>		
Water Column Height (feet):	<u> </u> (x)		

Purge Rate (gallon/minute): 15.8 Begin Purge (time): 1546
 Required Purge Time (minute): 6 min. End Purge (time): 1552

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1555	14.22	7.15	15.34	720	0.88	-2.5	
1600	13.99	7.00	12.01	706	2.35	14.4	
1605	13.55	7.00	10.70	762	0.60	17.2	
1610	13.44	7.00	10.60	703	0.82	17.2	
1615	13.43	7.00	10.45	705	1.93	20.3	
1620	SAMPLE						

Sample ID: RW-7773P-20230721 Sample Time: 1620

QC Samples Collected: None

Analytical Parameters: VOCs

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-8012P Date: 7/21/23 Samplers: JY, HR

Tap Location: Spigot near well OR tap off house ~80 ft away **CIRCLE ONE**

Well Diameter (inches):	<u>8</u>	1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = <u>200</u> 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)
Total Depth of Well (feet):	<u>90</u> (-)		
Depth to Water (feet):	<u> </u>		
Water Column Height (feet):	<u> </u> (x)		

Purge Rate (gallon/minute): 10.34 Begin Purge (time): 1305
 Required Purge Time (minute): 20 min. End Purge (time): ~~1325~~ 1335

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1335	12.74	6.85	10.26	776	0.15	-21.0	Had to use their
1340	14.53	6.81	9.28	773	0.23	-23.1	nose, couldn't
1345	15.39	6.92	9.22	778	0.25	-39.8	detach it
1350	15.11	6.93	9.18	780	0.14	-53.1	from spigot
1355	15.29	6.91	9.07	778	0.11	-82.1	
1400	15.03	6.93	8.94	777	0.10	-92.2	
1405	16.07	6.93	9.11	778	0.09	-85.2	

Sample ID: RW-8012P-20230721 Sample Time: 1410
 QC Samples Collected: None
 Analytical Parameters: VOCs

No treatment to water near well or off the house, as of 2020.



RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: **RW-8030P** Date: **7/20/23** Samplers: **Derek Savage, Hannah Peterson**

Tap Location: **spigot nearest to well along eastern irrigation manifold - backyard**

Well Diameter (inches):	8	$\left\{ \begin{array}{l} 1" - 0.041 \text{ Gal/ft.} \\ 2" - 0.16 \text{ Gal/ft.} \\ 4" - 0.65 \text{ Gal/ft.} \\ 6" - 1.47 \text{ Gal/ft.} \\ 8" - 2.60 \text{ Gal/ft.} \end{array} \right.$	Minimum purge volume (gallons) = 200
Total Depth of Well (feet):	92 (-)		
Depth to Water (feet):	_____		
Water Column Height (feet):	_____ (x)		

Purge Rate (gallon/minute): **~~30~~ ^{HR} 9 gpm** Begin Purge (time): **0904**
 Required Purge Time (minute): **30 gpm → 6.7 min** End Purge (time): **0911**

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
0912	12.15	8.35	10.48	889	7.11	131.8	
0917	12.07	7.83	9.84	851	34.3	109.8	
0922	12.07 ^{HR} 11.97	7.73	10.30	844	19.3	97.2	water is aerated
0927	11.87	7.69	10.05	840	46.1	81.2	so turbidity is influenced
0932	11.99	7.69	9.82	836	0.67	65.4	by air bubbles
0937	11.75	7.70	10.63	835	15	59.1	↳ immediate reading causes high value
0942	11.80	7.68	9.66	829	1.09	55.2	
0947	11.86	7.63	9.37	827	0.80	52.8	
0952	11.97	7.59	9.40	826 ^{HR} 826	1.07	50.9	

Sample ID: **RW-8030P - 20230720** Sample Time: **0955**

QC Samples Collected: **None**

Analytical Parameters: **VOCs**

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-8048P		Date:		Samplers: <u>HR, JY</u>			
Tap Location: Front yard ~30 ft from well - owner's hose (no spigot)							
Well Diameter (inches):	<u>5</u>	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = <u>300</u> 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)				
Total Depth of Well (feet):	<u>150</u> (-)						
Depth to Water (feet):	<u> </u>						
Water Column Height (feet):	<u> </u> (x)						
Purge Rate (gallon/minute): 2.2 <u>27.27</u>		Begin Purge (time): <u>1035</u>					
Required Purge Time (minute): <u>11 min.</u>		End Purge (time): <u>1046</u>					
PARAMETERS FOR WATER QUALITY STABILIZATION							
Temperature	± 1°C	DO	± 10 %				
pH	± 0.1 pH unit	ORP	± 10 mV				
Conductivity	± 10 %	Turbidity	< 50 NTU				
Begin Parameter Collection for Stabilization (time):							
Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1048	13.06	5.69	10.60	961	0.90	87.5	Unable to stabilize
1053	13.18	5.30	9.13	947	4.09	94.1	
1058	13.48	5.84	9.50	940	1.03	78.7	ORP, potentially 30-45 min. cycle
1103	13.13	6.03	9.53	938	1.51	68.4	
1108	13.49	6.18	10.03	937	1.92	61.9	
1113	13.16	6.02	9.53	922	0.62	67.9	
1118	13.56	6.20	9.32	936	0.39	62.7	
1123	13.24	6.36	9.56	946	0.32	-71.5	
1128	13.29	6.41	9.92	958	0.71	18.3	
1133	13.01	6.45	9.91	956	0.64	-90.6	
1138	13.54	6.49	9.54	940	0.72	-109.9	
1143	13.09	6.53	9.92	965	0.34	-141.8	
1153 1148	13.49	6.64	9.60	958	0.99	-155.6	
1158	12.80	6.61	9.82	982	1.22	-114.1	
1203	13.20	6.63	9.74	953	1.31	-37.4	
Sample ID: <u>RW-8048P-20230721</u>				Sample Time: <u>1226</u>			
QC Samples Collected: MS/MSD							
Analytical Parameters: VOCs							

**CDM
Smith**

1208 12.82 6.62 10.32 990 1.46 -12.5

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-8105PS Date: 7/20/23 Samplers: EE, JY

Tap Location: Behind house next to gate near wellhouse

Well Diameter (inches):	_____	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = <u>200</u> 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)
Total Depth of Well (feet):	_____ (-)		
Depth to Water (feet):	_____		
Water Column Height (feet):	_____ (x)		

Purge Rate (gallon/minute): 15 Begin Purge (time): 1432
 Required Purge Time (minute): 13 End Purge (time): _____

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1445	11.24	7.11	3.57	869	0.80	-197.6	
1450	10.72	6.86	3.05	858	0.87	-208.9	
1455	10.70	6.94	3.17	859	0.91	-197.6	
1500	11.00	6.99	2.74	856	0.92	-197.7	
1505	11.10	7.01	2.44	855	0.88	-202.3	
1510	11.11	7.01	2.49	854	0.77	-203.8	
1515	11.12	7.04	2.51	854	1.13	-208.1	
1520	SAMPLE						

Sample ID: RW-8105PS-20230720 Sample Time: 1520

QC Samples Collected: None

Analytical Parameters: VOCs

**CDM
Smith**

PID 1.2 ppm

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: <u>RW-8284P</u>		Date: <u>7/20/23</u>		Samplers: <u>JY, EE</u>			
Tap Location: <u>R side driveway</u>							
Well Diameter (inches): _____	(-) _____ _____ _____ _____ _____ } 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)					
Total Depth of Well (feet): _____		= _____ (X) 3 = <u>(300)</u>					
Depth to Water (feet): _____							
Water Column Height (feet): _____							
Purge Rate (gallon/minute): <u>15</u>		Begin Purge (time): <u>1555</u>					
Required Purge Time (minute): <u>20</u>		End Purge (time): <u>1615</u>					
PARAMETERS FOR WATER QUALITY STABILIZATION							
Temperature	± 1°C	DO	± 10 %				
pH	± 0.1 pH unit	ORP	± 10 mV				
Conductivity	± 10 %	Turbidity	< 50 NTU				
Begin Parameter Collection for Stabilization (time):							
Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1615	17.63	7.24	8.12	857	1.14	-174.6	
1620	16.20	7.23	8.00	848	6.78	-165.3	
1625	16.32	7.22	8.41	847	3.87	-177.7	
1630	16.26	7.21	8.15	846	10.6	-177.4	
1635	SAMPLE						
Sample ID: <u>RW-8284P-20230720</u>				Sample Time: <u>1635</u>			
QC Samples Collected: <u>None</u>							
Analytical Parameters: <u>VOCs</u>							



RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-2076F		Date: 7/21/23		Samplers: EE, DS			
Tap Location: NW of house behind pasture gate; ~80ft SSW of well							
Well Diameter (inches):	6	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = 113 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons) 80ft 2in pipe transfer line				
Total Depth of Well (feet):	90 (-)						
Depth to Water (feet):	50						
Water Column Height (feet):	40 (x)						
Purge Rate (gallon/minute):	13	Begin Purge (time):		1045			
Required Purge Time (minute):	9	End Purge (time):					
PARAMETERS FOR WATER QUALITY STABILIZATION							
Temperature	± 1°C	DO	± 10 %				
pH	± 0.1 pH unit	ORP	± 10 mV				
Conductivity	± 10 %	Turbidity	< 50 NTU				
Begin Parameter Collection for Stabilization (time):							
Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1055	13.37	7.44	10.70	768	1.83	114.3	
1100	12.77	7.42	9.70	758	1.10	99.1	
1105	13.18	7.39	8.65	751	1.14	93.1	
1110	14.41	7.37	8.81	756	1.33	84.1	
1115	14.42	7.38	8.44	765	1.71	81.1	
1120	14.68	7.43	8.50	749	1.64	64.2	
1125	15.25	7.39	8.13	748	4.81	58.2	
1130	14.43	7.39	8.44	745	1.94	58.5	
1135	SAMPLE						
Sample ID: RW-2076F-20230721				Sample Time: 1135			
QC Samples Collected: None							
Analytical Parameters: VOCs							

**CDM
Smith**

* Filled out Comm form

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-2140H		Date: 7/23/23		Samplers: EE, AM			
Tap Location:							
Well Diameter (inches):	8	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = 400 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)				
Total Depth of Well (feet):	195 (-)						
Depth to Water (feet):							
Water Column Height (feet):	(x)						
Purge Rate (gallon/minute):	/ Sprinkler on		Begin Purge (time):				
Required Purge Time (minute):	for 5 hrs		End Purge (time):				
PARAMETERS FOR WATER QUALITY STABILIZATION							
Temperature	± 1°C	DO	± 10 %				
pH	± 0.1 pH unit	ORP	± 10 mV				
Conductivity	± 10 %	Turbidity	< 50 NTU				
Begin Parameter Collection for Stabilization (time):							
Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1420	17.99	7.07	-0.29	1200	1.29	124	Single reading for health & safety reasons - see logbook.
1430	SAMPLE						
Sample ID: RW-2140H-20230723				Sample Time: 1430			
QC Samples Collected: None							
Analytical Parameters: VOCs							

**CDM
Smith**

④ faulty DO probe. Calibrated 3x - not working.
Do not use data

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-2151H Date: 7/20/23 Samplers: Derek Savage, Hannah

Tap Location:

Well Diameter (inches):	<u>8</u>	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = <u>300</u> 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)
Total Depth of Well (feet):	<u>180</u> (-)		
Depth to Water (feet):	<u> </u>		
Water Column Height (feet):	<u> </u> (x)		

Purge Rate (gallon/minute): 13 gal/min Begin Purge (time): 12:02
 Required Purge Time (minute): 23 min End Purge (time): 12:25

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1230	13.61	8.02	8.50	688	9.47	22.1	started to sample @
1235	14.29	7.93	6.92	664	9.51	11.8	1300 but turb increased + water turned rust colored. Flushed again
1240	15.14	7.88	7.18	673	7.70	12.4	All flow until clear,
1245	16.01	7.86	7.19	672	7.64	14.0	lowered flow rate + tried to stabilize but turned
1250	16.58	7.89	7.05	668	8.93	17.1	risky again. Per EE (FRL) advise, flushed again,
1255	16.97	7.94	7.25	656	22.8	21.3	took reading at 1300 then sampled.
1305	13.03	7.74	7.20	783	15.6	17.1	
1310	14.67	7.75	6.80	785	14.4	10.1	
1320	12.75	7.71	7.95	814	16.3	13.1	post flush
Sample	13:25						

Sample ID: RW-2151H - 20230720 Sample Time: 1300 ^{#2 7/20} 1320 1325

QC Samples Collected: None

Analytical Parameters: VOCs



Note: Do not move the electrical box on top of the well, it may spark when moved.

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-2172F Date: 7/18/23 Samplers: EE, JY, DS, HR

Tap Location: Under the tree, edge of orchard by deck

Well Diameter (inches):	6	1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = 100 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)
Total Depth of Well (feet):	110 (-)		
Depth to Water (feet):			
Water Column Height (feet):	(x)		

Purge Rate (gallon/minute): 13 gpm Begin Purge (time): 16:18
 Required Purge Time (minute): 8 End Purge (time): 16:26

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
16:27	13.98						
16:31	12.32	7.68	7.96	729	0.72	17.2	
16:36	13.02	7.63	7.83	728	0.40	31.3	
16:41	14.04	7.63	6.74	726	0.77	37.2	
16:46	14.40	7.65	7.70	723	0.63	44.5	
16:51	14.65	7.60	7.00	727	0.49	25.9	
16:56	14.75	7.60	7.05	726	0.41	24.7	
17:01	14.72	7.60	7.30	724	0.63	28.1	
17:03	Sample						

Sample ID: RW-2172F-20230718 Sample Time: 17:03

QC Samples Collected: None

Analytical Parameters: VOCs

**CDM
Smith**

PID consistently reading 1.8 ppm. No obvious VOC sources nearby.

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-2172H Date: 7/21/23 Samplers: DS, EE

Tap Location: backyard near animal pens

Well Diameter (inches):	<u>8</u>	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = <u>300</u> 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)
Total Depth of Well (feet):	<u>165</u> (-)		
Depth to Water (feet):	<u> </u>		
Water Column Height (feet):	<u> </u> (x)		

Purge Rate (gallon/minute): 18 (per owner) Begin Purge (time): 1243
 Required Purge Time (minute): 17 End Purge (time): 1300

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1300	14.84	7.46	11.69	1212	3.06	56.1	
1305	12.46	7.47	10.14	1182	4.92	50.8	
1310	13.02	7.51	9.51	1172	2.91	34.4	
1315	12.82	7.45	9.97	1173	2.41	16.8	
1320	12.42	7.47	10.00	1170	1.22	6.0	
1325	12.75	7.55	10.00	1177	1.27	1.3	
1330	12.55	7.40	9.77	1169	1.39	1.5	
1334	12.81	7.43	9.94	1170	1.17	-0.8	
1338	12.37	7.46	10.13	1173	0.70	-0.8	
1340	Sample						

Sample ID: RW-2172H-20230721 Sample Time: 1340

QC Samples Collected: None

Analytical Parameters: VOCs

**CDM
Smith**

Dog on premises. Be cautious about being in yard if owner does not answer.

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

SEND
OWNER
PREVIOUS
SAMP INFO

Well No.: RW-2213F Date: 7 Samplers: EE, DS

Tap Location: ~~Spigot off house in backyard; turn on water control switch in basement~~ NEW*

Well Diameter (inches):	8	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = 200 6" - 1.47 Gal/ft. * 8" - 2.60 Gal/ft.	Minimum purge volume (gallons)
Total Depth of Well (feet):	140 (-)		
Depth to Water (feet):			
Water Column Height (feet):	(x)		

Purge Rate (gallon/minute): 11 Begin Purge (time): 1443
 Required Purge Time (minute): 18 End Purge (time): 1501

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1502	13.58	7.72	9.22	735	0.72	-78.8	
1507	13.53	7.54	7.14	707	0.97	-20.8	
1512	13.98	7.49	7.62	706	0.69	-23.8	
1517	14.27	7.47	7.14	703	3.2	-30.7	
1525	SAMPLE						

Sample ID: RW-2213F-20230721 Sample Time: 1525

QC Samples Collected: None

Analytical Parameters: VOCs

**CDM
Smith**

(*) Spigot ~40 ft from well next to pasture.

* Adding some volume, assuming 1 inch pipe, only ~1.6 gal (basically negligible when considering parameter measurement time)

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: RW-2237H		Date: 7/20/23		Samplers: EE, TY			
Tap Location: Sprigot at right of driveway, water dumped into yard/field							
Well Diameter (inches):	9	{ 1" - 0.041 Gal/ft. 2" - 0.16 Gal/ft. 4" - 0.65 Gal/ft. = 300 6" - 1.47 Gal/ft. 8" - 2.60 Gal/ft.		Minimum purge volume (gallons)			
Total Depth of Well (feet):	100 (-)						
Depth to Water (feet):	65 (est)						
Water Column Height (feet):	35 (x)						
Purge Rate (gallon/minute):	12	Begin Purge (time): 12:32 + 3:32 7/20/23					
Required Purge Time (minute):	25	End Purge (time): 12:57 / 3:57					
PARAMETERS FOR WATER QUALITY STABILIZATION							
Temperature	± 1°C	DO	± 10 %				
pH	± 0.1 pH unit	ORP	± 10 mV				
Conductivity	± 10 %	Turbidity	< 50 NTU				
Begin Parameter Collection for Stabilization (time):							
Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1300	17.15	7.08	14.11	1136	0.91	-40.3	
1305	14.96	7.00	9.80	1123	0.42	-13.8	
1310	14.53	6.38	8.95	1115	0.84	-2.6	
1315	15.62	6.73	9.45	1124	0.74	-13.5	
1320	14.93	6.86	8.68	1124	0.54	49.1	
1325	14.62	7.11	9.68	1113	0.98	-170.7	
1330	14.64	7.09	9.48	1119	0.52	-144.8	
1335	14.58	6.97	9.17	1120	1.30	-134.3	
1340	13.92	7.05	9.20	1119	2.09	-139.5	
1345	14.01	7.06	9.29	1120	0.84	-142.8	
1350	SAMPLE						
Sample ID: RW-2237H-20230720				Sample Time: 1350			
QC Samples Collected: None							
Analytical Parameters: VOCs							

**CDM
Smith**

PID Ø

owner had splitter on the spigot. we avoided the timer & used the empty port. Water was too pressurized to sample from splitter, so we stabilized & sampled from CDM Smith hose after purge

At 1331, pump started. It did this a couple times prior.
Suspect pump cycling. Minor surges in flow when it turns on.
Surges for less than a minute

Another surge at 1342

RESIDENTIAL WELL PURGING AND SAMPLING FORM
FORT HALL MINE LANDFILL, BANNOCK COUNTY, POCA TELLO, ID

Well No.: **RW-2879M** Date: **7/20/23** Samplers: **HR, DS**

Tap Location: _____

Well Diameter (inches):	<u>6</u>	$\left\{ \begin{array}{l} 1" - 0.041 \text{ Gal/ft.} \\ 2" - 0.16 \text{ Gal/ft.} \\ 4" - 0.65 \text{ Gal/ft.} \\ 6" - 1.47 \text{ Gal/ft.} \\ 8" - 2.60 \text{ Gal/ft.} \end{array} \right.$	Minimum purge volume (gallons) = <u>300</u>
Total Depth of Well (feet):	<u>205</u> (-)		
Depth to Water (feet):	_____		
Water Column Height (feet):	_____ (x)		

Purge Rate (gallon/minute): $\frac{19.6 \text{ sec}}{4 \text{ gal}} = 4.9 \frac{\text{sec}}{\text{gal}} = 12.2 \frac{\text{gal}}{\text{min}}$ Begin Purge (time): 10:42

Required Purge Time (minute): $300 \text{ gal} / 12.2 \frac{\text{gal}}{\text{min}} = 24.5 \text{ min}$ End Purge (time): 11:07

PARAMETERS FOR WATER QUALITY STABILIZATION

Temperature	± 1°C	DO	± 10 %
pH	± 0.1 pH unit	ORP	± 10 mV
Conductivity	± 10 %	Turbidity	< 50 NTU

Begin Parameter Collection for Stabilization (time):

Time	Temp. (°C)	pH	DO (mg/L)	Conductivity (µS/cm)	Turbidity (NTU)	ORP (mV)	Comments
1110	15.74	7.57	9.15	1642	7.14	25.7	
1115	15.45	7.37	8.62	1619	7.64	22.6	
1120	15.35	7.33	7.03	1617	7.84	20.4	
1125	15.68	7.33	7.93	1621	11.2	20.5	
1130	15.35	7.33	7.90	1609	7.46	19.3	
1135	15.25	7.33	7.89	1605	6.32	18.3	
1140	SAMPLE ←						

Sample ID: **RW-2879M-20230720** Sample Time: **11:40**

QC Samples Collected: **None**

Analytical Parameters: **VOCs**



Dorell Savage	Hannah
DS, HR	Robison

**CDM
Smith**

HEALTH AND SAFETY PLAN SIGNATURE FORM

All site personnel must sign this form indicating receipt of the H&SP. Keep this original on site. It becomes part of the permanent project files. Send a copy to the Health and Safety Manager (HSM).

SITE NAME/NUMBER:

Fort Hall Mine Landfill

DIVISION/LOCATION:

Near Pocatello, ID

CERTIFICATION:

I understand, and agree to comply with, the provisions of the above referenced H&SP for work activities on this project. I agree to report any injuries, illnesses or exposure incidents to the site Health and Safety Coordinator (SHSC). I agree to inform the SHSC about any drugs (legal and illegal) that I take within three days of site work.

[illegible]

38 7/18/23 offsite GW Sampling E. Ehret

Event: 2023 offsite Sampling Author: EE
Personnel: Emma Ehret (EE), Hannah Rolston (HR)
Observer: Duck Savage (DS), Jessica Yach (JY)

PPE: Level D Weather: Sunny, 90°

Tasks: Assemble gear, calibrate equipment,
sample 4 pilot study monitoring wells,
train at 1 domestic well.

0715 EE, HR, DS, JY on site. Health & Safety.

0730 Adria Mead (AM) on site to drop
off a cooler & deploy MW-118D,
MW-120S/D dedicated pumps.
Team (sampling) calibrates equipment,
organizes gear.

0830 (approx) AM having trouble dropping
MW-120S/D pumps due to bent
casing. Sampling team assists
with MW-120S, attempts MW-120D
& can get to within ~7 ft of target.
Left to set underwater pressure
for now.

0930 (approx) AM leaves site. Sampling team
finishes packing.

1000 EE, HR arrive at MW-124 to set up
DS, JY arrive at MW-125 to set up.

1100 **BOTH TEAMS** make several

E. Ehret 2023 offsite GW Sampling 7/18/23 39
cont'd adjustments to purge settings to account
for drawdown beyond 0.1 feet.

SAMPLE ID	Purge Start	Sample Time
MW-124-20230718	10:25	12:55
MW-125-20230718	10:18	11:35
RW-2-20230718	13:33	14:35

1200 DS, JY are finishing sampling. DO at
this location (MW-125) took a long
time to stabilize. HR, EE were ready
to sample/stabilized except for DO,
which rose from 3 to 8 mg/L. They
disassemble, clean YSI, then apply
tape to connectors. Rubber seal
O-rings appear to be missing from
both YSI flow-thru cells.

1300 DS, JY go to RW-2. EE, HR clean
up, decon pump at MW-124.

1430 EE decides to not sample MP-2
because of FedEx timing for
Microbial Samples.

1515 AM onsite with supplies & ice.
Samp team finishes at RW-2, packs
Microbial Insights cooler, COC.

1530 AM offsite to take microbial sample
to FedEx. Samp team returns to

Rite in the Rain.

40 7/8/23 2023 offsite GW Sampling E. Ehret
cont'd shed to collect equipment blank &
prep for domestic well sampling.

EB-01-20230718 Time: 15:50

Pump: DS, JY team

1600 Sampling team disposes of purge water
buckets at leachate pond, go to RW-2172F.

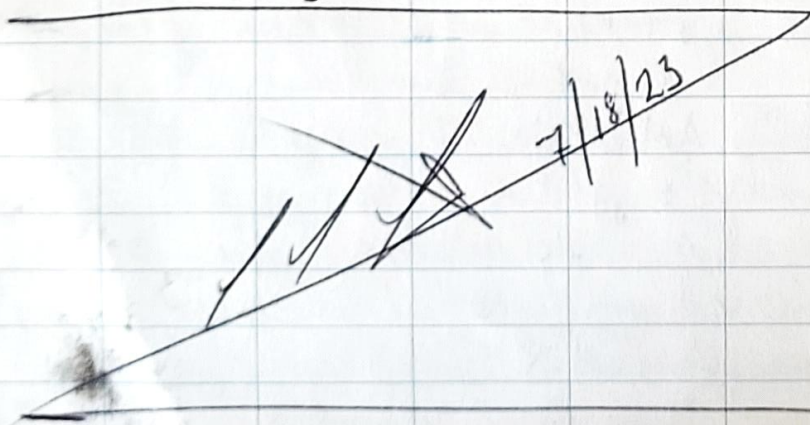
1618 Begin purge at RW-2172F after brief
review of domestic well sampling
protocol.

RW-2172F-20230718 Sample: 17:03

1710 Sampling team returns to landfill
office / shed, unloads equipment.

1720 JY returns to MW-120D & lowers
the pump the rest of the way.
Time has allowed weight of water
to help.

1730 Sampling team offsite.



Ehret 2023 offsite Sampling 7/19/23 41

Event: Annual offsite GW Sampling + 3-month pilot
post injection monitoring event

Weather: Sunny 70's (expected high of 85°F)

PPE: Level D

Date: 7/19/23

Author: EE

Personnel: DS, JY, EE, HR ("Samp Team")

Tasks: Sample pilot study, Muni-Well, domestic
wells

0720 Samp team arrives onsite, begin:
equipment calibration, bottleware
& supply organization.

0830 Health & Safety: hydration, breaks,
traffic, snakes, comm w/new partner.

0835 Teams (EE/DS, HR/JY) depart shed
for MP-2 & MW-118D, resp.

0845 EE, DS pause & download AquaTroll
700 transducer log, send to EE
com Smith email.

1030 Both teams sampling.

Sample ID	Purge Start	Sample Time
MP-2-20230719	0916	1010
MW-118D-20230719	0855	1100

1100 DS, EE depart MP-2, check w/HR, JY

1130 DS, EE leave site for ice. Pack cooler offsite.

1200 DS, EE return to site with extra ice

JY, HR purge at MW-120S. *Rite in the Rain*

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1225 DS, EE offsite to ship second microbial
cater. City reschedules Mini-Well-1d sampling.

1310 DS, EE return to site. HR, JY sample
MW-120S.

1320 DS, EE leave to take purge water
to leachate pond.

1345 DS, EE decon pump. HR notifies that
truck was running while MW-120S
was sampled. Consult Karla Leslie,
who approves not re-sampling, as
PCE & TCE are not in exhaust &
the location is next to a driveway
& parking lot anyway. HR, JY
will continue on to MW-120D.

1410 DS, EE head offsite to RW-2203H.

1610 Update: RW-2203H has been purging
steadily with no drawdown & high
turbidity. Water level is 20+ feet
higher than 2022. Bottom/old pump
was tapped at 75 ft, pump set at
73 to sample. Purged extra volume
for health & safety - 92°F & no shade
for setup, EE/DS took more breaks.
After 30 min sampling, NTUs
dropped 170 to 162. Consulted

E. Ehret 2023 offsite Sampling 7/19/23 43

cont'd: Karla Leslie. No drawdown should
mean getting fresh aquifer water.
But also wondering if orange color
is from old disintegrating pump.
The well is not used. 20 extra feet
of water may be some standing
water? Decide to increase flow
rate after getting more purge buckets.

Also: HR/JY purged MW-120D.
Slow flow rate (≤ 50 ml/min), 2-ft
drawdown & more with flow
increases. Consulted Karla. Lately
new / slow flow issues at MW-120D.
OK to purge ≤ 50 ml/min with no dd
if can stabilize.

1615 DS leaves RW-2203H to get add'l
purge buckets.

1622 DS returns to RW-2203H.

1625 Restart RW-2203H purge

1700 JY, HR come to RW-2203H. Karla
approves sampling at RW-2203H
despite high turbidity if other parameters
stabilize. JY takes EE to landfill
for restroom break. HR, DS purge
to stabilize RW-2203H.

14 7/19/23 2023 offsite GW Sampling E. Ehret

1730 HR, JY leave RW-2203H to sample RW-15

1745 DS, EE return to landfill.

1800 HR, JY take purge water to leachate pond.

DS inputs purge parameters to tablet.

EE decons pump, preps for EB, empties

Supplies.

Sample ID	Purge Start	Sample Time
MW-1205-20230719 (ms/msd)	1205	1320
MW-1200-20230719	1605 1410	1605
MW-1200-Q-20230719	1410	1605
RW-15-20230719	N/A	1740
RW-2203H-20230719	1440	1725
EB-02-20230719	N/A	1830

1845 CDM Smith offsite

7/19/23

7/20/23

E. Ehret

45

Event: 2023 offsite GW & Pilot Monitoring

Weather: 60's, sunny; high of 90 expected

Date: 7/20/23

Author: EE

Personnel: EE, JY, HR, DS

Tasks: pack & ship pilot samples, sample domestic wells & MW-Well-14

0715 CDM Smith Samp Team onsite. Equipment calibration, bottle kit completion, Shed organize

0830 Health & Safety: private property, public roads, pets, snakes, hydration

0845 DS/HR offsite to sample RW-803OP

0900 EE/JY offsite to buy ice.

0920 (approx) EE/JY deliver ice to DS/HR at RW-803OP.

0945 EE/JY pack coolers. EE retests RW-803OP to get dropped phone

1120 EE/JY drop two coolers at FedEx.

TB-01-20230720 9:40

TB-02-20230720 10:00

1130 EE/JY pick up ice & supplies.

1200 (approx) EE/JY go to deliver ice to DS/HR at RW-215/H. They are on their 3rd well.

1230 DS EE/JY go to RW-2237H. *Photo in the Rain*

46 7/20/23 offsite GW Sampling E. Ehret

Sample ID	Purge Start	Sample Time
RW-8030P-20230720	0904	0955
RW-2879A-20230720	1042	1140
RW-2151H-20230720	1202	1325
RW-2237H-20230720	1232	1350

1500 Update DS/HR came to RW-2237H after RW-2151H to get extra bottles & purge/bottleware for RW-7505P. After RW-2237H sampling, both teams went for fuel. DS/HR went to RW-7505P. No one was home & access agreement said owner wants to be present. EE advised HR/DS to sample a different well. HR/DS went to RW-7200P, where HR noticed the min purge seemed low. EE confirmed with Karla that min purge should be 275 gal. Adria Mead visited each team briefly with cold juices & notified EE that access agreements for LDS property "PA" wells have still not been signed. EE/JY purging at RW-8105PS. Mr. Larkin of RW-7505P called EE back to say we can sample. EE, "uests" HR/DS sample there

E. Ehret 7/20/23 offsite GW Sampling 47
cont'd: next.

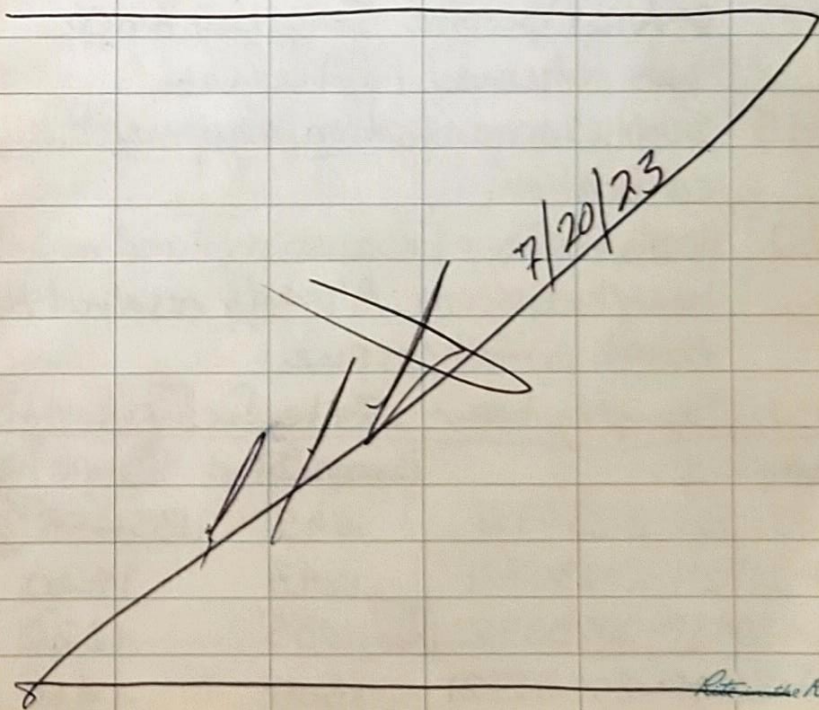
Sample ID	Purge Start	Sample Time
RW-7200P-20230720	1442	1530
RW-8105PS-20230720	1432	1520 ^{7/23} 1445
RW-7505P-20230720	1542	1625
RW-8284P-20230720	1555	1635

1645 Sampling teams head back to landfill.

1700 TY, EE stopped at RW-2213F property to get new homeowner's information and consent form. They are interested in having the well sampled.

1710 Equipment unload at shed.

1715 CSM Smith leaves the site.



48 7/21/23 offsite GW Sampling E. Ehret

Date: 7/21/23

Event: Annual offsite & 3 mo post injection mon

Author: EE

Weather: breezy, 70's (90°+ expected)

PPE: Level D

Personnel: EE/DS, HR/JY

Tasks: Sample domestic wells for VOCs.

0930 CDM Smith onsite. Company truck has been stalling, so the team went to Enterprise to rent a truck for the remainder & to have a second vehicle for the trip back to Helena. Consulted Adria Mead & Nic Piscrotta. Company truck was returned to the hotel.

0945 Supplies organization, equipment calibration.

1020 Health & Safety: Exhaustion, tired mistakes, heat/hydration. Already resolved the truck safety issue.

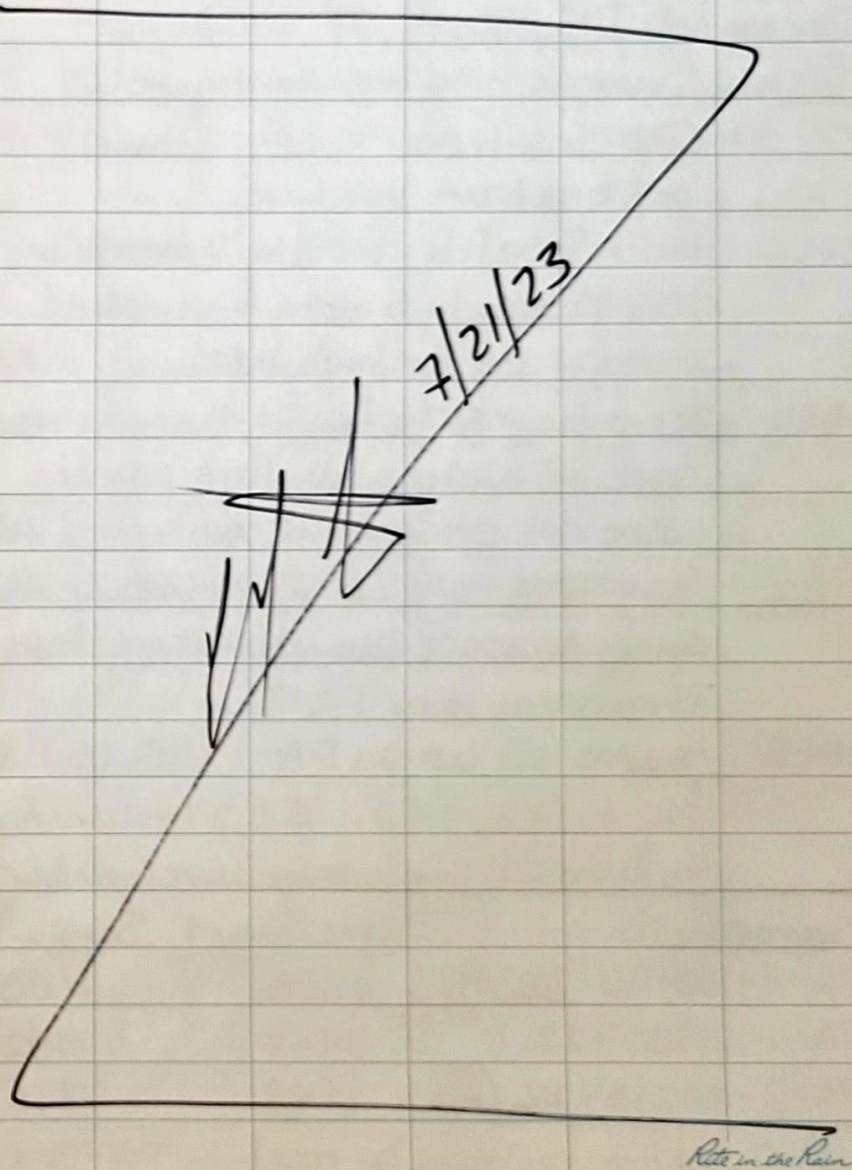
1030 Sampling team offsite for first wells.

Sample ID	Purge Start	Sample Time
RW-2076F-20230721	1045	1135 1055 1155 ¹²⁰⁰
RW-2172H-20230721	1243	1340
RW-8048P-20230721 (MS/MSD)	1035	1220
RW-8012P-20230721	1305	1410

E. Ehret offsite GW Samp 7/21/23 49

RW-7677P-20230721	1430	1530
RW-2213F-20230721	1443	1525
RW-7773P-20230721	1546	1620
RW-7549P-20230721	1537	1640

1705 CDM Smith offsite



50 7/22/23 Offsite GWSampling E. Ehret

Date: 7/22/23

Event: Offsite & 3 mo post pilot monitoring

Author: EE

Weather: sunny, 70's (high of 100)

PPE: Level D

Personnel: DS, HR, EE, JY

Tasks: Sample city monitoring wells

0730 CDM Smith onsite. Equipment calibration & sorting.

0820 Health & safety: last day exhaustion, distractions, hydration (sunscreen/ canopy use for high heat

0830 Team leaves site for PA-8 access residence off Wedge Way. Homeowners were not present. HR explained to a curious neighbor what we were doing. Access is clear, but irrigation is running near PA-8.

0845 Teams set up on PA-1 (HR, DS) & PA-4 (EE, JY). EE/JY returned to land fill for water level meters

Sample ID	Purge Start	Sample Time
PA-4-100-110-20230722	0936	1100
PA-1-20230722 (BFD)	0944	1045
PA-3-20230722 (MS/MSD)	1145	1215

1120 Decon pumps & reset to PA-3 for

E. Ehret 7/22/23 Offsite GWSampling 51

cont'd: HR/DS & PA-8 for JY/EE. J

1130 EE, JY go buy electrolyte drinks for PA-8 sampling. Set up at PA-8.

1230 Several minutes after purge start, battery at PA-8 dies. Battery used at ~~PA-8~~ ^{PA-1} PA-3 also died just after sampling. EE/JY go to land fill to check if there is a third. Plug in dead battery. There is no add'l battery.

1300 EE/JY clean up at PA-8.

1330 Sampling teams back onsite.

DS/HR collect EB with pump used after PA-3. Equipment unload

EB-03-20230722 1325

1350 HR, JY, DS take trash to Cell 4 and purge water to leachate pond.

1410 CDM Smith offsite.

7/22/23

52 Offsite GW Samp E. Ehret 7/23/23

Date = 7/23/23

Event = Offsite GW Samp + 3 mo post/pilot mon

Author = EE

Weather:

PPE: Level D

Personnel: EE, Adria Mead (AM)

Tasks: Sample PA-8, MW-116S, RW-2140H,
pack equipment, organize/inventory
supplies.

0800 CDM Smith onsite. Equipment prep
& calibration.

0930 AM/EE leave for PA-8, accessed via
private drive off Wedge Way.

Sample ID	Purge Start	Sample Time
PA-8-77-87-20230723	1004	1110

1130 AM/EE return to landfill for domestic
well equipment & extra purge buckets.

Note: The DO sensor of the YSI was not reading
accurately during PA-8 purging. It was
re-calibrated twice in the field with
some adjustment but no improvement.

1210 AM/EE arrive at Bunker property.

1230 EE is feeling some symptoms of heat
exposure, so AM is doing purge para-
meter readings, while car is kept run-
ning with air conditioner.

7/23/23 Offsite GW Sampling E. Ehret 53

Sample ID	Purge Start	Sample Time
MW-116S-20230723	1237	1355
RW-2140H-20230723	Hours prior	1430

Note: DO probe continued to malfunction.

DO readings should not be used for wells
sampled today. Calibration attempts were
made but unsuccessful.

Note: A single purge parameter reading was
taken instead of 3 minimum because:

- ① Field staff were feeling effects of the heat
- ② A lot tree branch was precariously hanging in the vicinity
- ③ The homeowner had been running the hose for 5 hours, so readings were considered to already be sufficiently stable.

Note: RW-2140H is sampled via a hose
connected to a wider black pipe
in the backyard. A valve turns off
water from the main line & allows
for sampling hose or other owner hose
to be sampled at a lower flow.

1500 AM/EE arrive back to landfill, unload
equipment. AM drives purge water to
leachate ponds.

1530 CDM Smith offsite.

Rite in the Rain

Appendix C

Laboratory Analytical Results

Tables Notes

Results greater than the MCL

Underline indicates values greater than IDGW Standard (or outside range for pH)

Bold indicates detected values

Italics indicates nondetected values

EPA = U.S. Environmental Protection Agency

ID GW = Idaho Groundwater Standards

J = Result is estimated

MCL = maximum contaminant level

µg/L = micrograms per liter

µS/cm = microsiemens per centimeter

mg/L = milligrams per liter

mV = millivolts

ntu = Nephelometric Turbidity Unit

su = standard unit

U = Analyte was not detected at the associated value

UJ = The non-detection at the associated value is an estimate

VOCs = volatile organic compounds

Analyte	EPA MCL	ID GW Primary Standard	ID GW Secondary Standard	Well ID	PA-1		PA-1		PA-3		PA-4		PA-8		
				Sample Name	PA-1-20230722		PA-1-Q-20230722		PA-3-20230722		PA-4-20230722		PA-8-20230723		
				Sample Date	7/22/2023		7/22/2023		7/22/2023		7/22/2023		7/23/2023		
				Unit	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	
Field Parameters															
Dissolved Oxygen	--	--	--	mg/L	7.81		7.81		8.25		8.41		-0.29		
Oxidation-Reduction Potential	--	--	--	millivolts	-63.6		-63.6		-88.3		-130		-164.7		
pH	--	--	6.5 - 8.5	su	7.34		7.34		7.22		6.95		8.12		
Specific Conductance	--	--	--	µs/cm	756		756		841		807		462		
Temperature	--	--	--	Celsius	12.25		12.25		13.52		14.92		11.52		
Turbidity	--	--	--	ntu	0.36		0.36		0.16		1.19		5.09		
VOCs															
1,1,1,2-Tetrachloroethane	--	--	--	µg/L	0.58 U		0.58 U		0.58 U		0.58 U		0.58 U		
1,1,1-Trichloroethane	200	200	--	µg/L	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		
1,1,2,2-Tetrachloroethane	--	--	--	µg/L	0.21 U		0.21 U		0.21 U		0.21 U		0.21 U		
1,1,2-Trichloroethane	5	5	--	µg/L	0.27 U		0.27 U		0.27 U		0.27 U		0.27 U		
1,1-Dichloroethane	--	--	--	µg/L	0.22 U		0.22 U		0.22 U		0.22 U		0.22 U		
1,1-Dichloroethene	7	7	--	µg/L	0.23 U		0.23 U		0.23 U		0.23 U		0.23 U		
1,1-Dichloropropene	--	--	--	µg/L	0.42 U		0.42 U		0.42 U		0.42 U		0.42 U		
1,2,3-Trichloropropane	--	--	--	µg/L	0.86 U		0.86 U		0.86 U		0.86 U		0.86 U		
1,2,4-Trichlorobenzene	70	70	--	µg/L	0.58 U		0.58 U		0.58 U		0.58 U		0.58 U		
1,2-Dibromo-3-Chloropropane	0.2	0.2	--	µg/L	1.8 U		1.8 U		1.8 U		1.8 U		1.8 U		
1,2-Dibromoethane	0.05	0.05	--	µg/L	0.4 U		0.4 U		0.4 U		0.4 U		0.4 U		
1,2-Dichlorobenzene	600	600	--	µg/L	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		
1,2-Dichloroethane	5	5	--	µg/L	0.54 U		0.54 U		0.54 U		0.54 U		0.54 U		
1,2-Dichloropropane	5	5	--	µg/L	0.52 U		0.52 U		0.52 U		0.52 U		0.52 U		
1,3-Dichlorobenzene	--	600	--	µg/L	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		
1,3-Dichloropropane	--	--	--	µg/L	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		
1,4-Dichlorobenzene	75	75	--	µg/L	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		
2,2-Dichloropropane	--	--	--	µg/L	0.38 U		0.38 U		0.38 U		0.38 U		0.38 U		
2-Butanone (MEK)	--	--	--	µg/L	6 U		6 U		6 U		6 U		6 U		
2-Hexanone	--	--	--	µg/L	1.7 U		1.7 U		1.7 U		1.7 U		1.7 U		
4-Methyl-2-pentanone (MIBK)	--	--	--	µg/L	0.98 U		0.98 U		0.98 U		0.98 U		0.98 U		
Acetone	--	--	--	µg/L	6.6 U		6.6 U		6.6 U		6.6 U		6.6 U		
Acetonitrile; methyl cyanide	--	--	--	µg/L	9.6 U		9.6 U		9.6 U		9.6 U		9.6 U		
Acrolein	--	--	--	µg/L	4.9 U		4.9 U		4.9 U		4.9 U		4.9 U		
Acrylonitrile	--	--	--	µg/L	4.5 U		4.5 U		4.5 U		4.5 U		4.5 U		
Allyl chloride	--	--	--	µg/L	0.17 U		0.17 U		0.17 U		0.17 U		0.17 U		
Benzene	5	5	--	µg/L	0.31 U		0.31 U		0.31 U		0.31 U		0.31 U		
Bromochloromethane	--	--	--	µg/L	0.4 U		0.4 U		0.4 U		0.4 U		0.4 U		
Bromodichloromethane	80	100	--	µg/L	0.39 U		0.39 U		0.39 U		0.39 U		0.39 U		
Bromoform	80	100	--	µg/L	1.2 U		1.2 U		1.2 U		1.2 U		1.2 U		
Bromomethane	--	--	--	µg/L	2.4 U		2.4 U		2.4 U		2.4 U		2.4 U		
Carbon disulfide	--	--	--	µg/L	0.63 U		0.63 U		0.63 U		0.63 U		0.63 U		
Carbon tetrachloride	5	5	--	µg/L	0.57 U		0.57 U		0.57 U		0.57 U		0.57 U		
Chlorobenzene	100	100	--	µg/L	0.42 U		0.42 U		0.42 U		0.42 U		0.42 U		
Chlorodibromomethane	80	100	--	µg/L	0.62 U		0.62 U		0.62 U		0.62 U		0.62 U		
Chloroethane	--	--	--	µg/L	1.4 U		1.4 U		1.4 U		1.4 U		1.4 U		
Chloroform	80	2	--	µg/L	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		
Chloromethane	--	--	--	µg/L	0.75 U		0.75 U		0.75 U		0.75 U		0.75 U		
Chloroprene	--	--	--	µg/L	1.2 U		1.2 U		1.2 U		1.2 U		1.2 U		
cis-1,2-Dichloroethene	70	70	--	µg/L	0.32 U		0.32 U		0.32 U		0.32 U		0.32 U		
cis-1,3-Dichloropropene	--	--	--	µg/L	0.63 U		0.63 U		0.63 U		0.63 U		0.63 U		
Dibromomethane	--	--	--	µg/L	0.34 U		0.34 U		0.34 U		0.34 U		0.34 U		
Dichlorodifluoromethane	--	--	--	µg/L	0.96 U		0.96 U		0.96 U		0.96 U		0.96 U		
Ethyl methacrylate	--	--	--	µg/L	0.86 U		0.86 U		0.86 U		0.86 U		0.86 U		
Ethylbenzene	700	700	--	µg/L	0.3 U		0.3 U		0.3 U		0.3 U		0.3 U		
Iodomethane	--	--	--	µg/L	2.6 U		2.6 U		2.6 U		2.6 U		2.6 U		
Isobutanol; Isobutyl alcohol	--	--	--	µg/L	37 U		37 U		37 U		37 U		37 U		
m,p-Xylene	10000	--	--	µg/L	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		
Methacrylonitrile	--	--	--	µg/L	5.3 U		5.3 U		5.3 U		5.3 U		5.3 U		
Methyl methacrylate	--	--	--	µg/L	1.1 U		1.1 U		1.1 U		1.1 U		1.1 U		
Methylene Chloride	5	5	--	µg/L	0.94 U		0.94 U		0.94 U		0.94 U		0.94 U		
o-xylene (1,2-dimethylbenzene)	10000	--	--	µg/L	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		
Propionitrile; ethyl cyanide	--	--	--	µg/L	3.7 U		3.7 U		3.7 U		3.7 U		3.7 U		
Styrene	100	100	--	µg/L	0.36 U		0.36 U		0.36 U		0.36 U		0.36 U		
Tetrachloroethene	5	5	--	µg/L	0.4 U		0.4 U		0.4 U		0.4 U		0.4 U		
Toluene	1000	1000	--	µg/L	0.32 U		0.32 U		0.32 U		0.32 U		0.32 U		
trans-1,2-Dichloroethene	100	100	--	µg/L	0.37 U		0.37 U		0.37 U		0.37 U		0.37 U		
trans-1,3-Dichloropropene	--	--	--	µg/L	0.65 U		0.65 U		0.65 U		0.65 U		0.65 U		
trans-1,4-Dichloro-2-butene	--	--	--	µg/L	1.4 U		1.4 U		1.4 U		1.4 U		1.4 U		
Trichloroethene	5	5	--	µg/L	0.5 J		0.5 J		0.8 J		1.1		0.3 U		
Trichlorofluoromethane	--	--	--	µg/L	0.57 U		0.57 U		0.57 U		0.57 U		0.57 U		
Vinyl acetate	--	--	--	µg/L	0.94 U		0.94 U		0.94 U		0.94 U		0.94 U		
Vinyl chloride	2	2	--	µg/L	0.51 U		0.51 U		0.51 U		0.51 U		0.51 U		
Xylene (Total)	10000	10000	--	µg/L	0.33 U		0.33 U		0.33 U		0.33 U		0.33 U		

Appendix C - Part 2
PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
Muni-Well-10	7/18/1997	0.6	1.3	Historical Data - Previous Consultant
Muni-Well-10	12/21/1999	No result	1	Historical Data - Previous Consultant
Muni-Well-10	9/26/2000	No result	0.5	Historical Data - Previous Consultant
Muni-Well-10	9/18/2001	No result	0.7	Historical Data - Previous Consultant
Muni-Well-10	10/8/2001	No result	0.6	Historical Data - Previous Consultant
Muni-Well-10	9/4/2002	No result	0.6	Historical Data - Previous Consultant
Muni-Well-10	9/16/2003	No result	2	Historical Data - Previous Consultant
Muni-Well-10	9/8/2004	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-10	10/26/2005	No result	0.5	Historical Data - Previous Consultant
Muni-Well-10	10/26/2005	ND U	0.5	Historical Data - Previous Consultant
Muni-Well-10	9/20/2006	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-10	12/5/2007	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-10	10/24/2008	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-10	11/30/2009	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-10	9/14/2010	No result	0.54	Historical Data - Previous Consultant
Muni-Well-10	9/14/2010	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-10	9/13/2011	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-10	10/2/2012	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-10	9/18/2013	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-10	10/17/2016	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-12	3/25/1993	No result	1.3	Historical Data - Previous Consultant
Muni-Well-12	7/20/1993	No result	1.6	Historical Data - Previous Consultant
Muni-Well-12	10/18/1993	No result	1.8	Historical Data - Previous Consultant
Muni-Well-12	3/17/1994	No result	3	Historical Data - Previous Consultant
Muni-Well-12	8/23/1994	No result	2.1	Historical Data - Previous Consultant
Muni-Well-12	12/13/1994	No result	2.5	Historical Data - Previous Consultant
Muni-Well-12	3/22/1995	No result	3.3	Historical Data - Previous Consultant
Muni-Well-12	6/24/1997	No result	2.4	Historical Data - Previous Consultant
Muni-Well-12	10/19/1998	No result	3.8	Historical Data - Previous Consultant
Muni-Well-12	12/21/1999	No result	4.5	Historical Data - Previous Consultant
Muni-Well-12	9/26/2000	No result	1.3	Historical Data - Previous Consultant
Muni-Well-12	7/3/2001	No result	0.9	Historical Data - Previous Consultant
Muni-Well-12	9/18/2001	No result	1.7	Historical Data - Previous Consultant
Muni-Well-12	10/8/2001	No result	1.6	Historical Data - Previous Consultant
Muni-Well-12	6/17/2002	No result	1.3	Historical Data - Previous Consultant
Muni-Well-12	9/4/2002	No result	1.2	Historical Data - Previous Consultant
Muni-Well-12	9/16/2003	No result	2.6	Historical Data - Previous Consultant
Muni-Well-12	6/23/2004	ND U	0.7	Historical Data - Previous Consultant
Muni-Well-12	9/8/2004	No result	0.7	Historical Data - Previous Consultant
Muni-Well-12	9/8/2004	ND U	0.7	Historical Data - Previous Consultant
Muni-Well-12	10/26/2005	No result	0.7	Historical Data - Previous Consultant
Muni-Well-12	10/26/2005	ND U	0.7	Historical Data - Previous Consultant
Muni-Well-12	9/20/2006	No result	0.6	Historical Data - Previous Consultant
Muni-Well-12	9/20/2006	ND U	0.6	Historical Data - Previous Consultant
Muni-Well-12	12/5/2007	No result	0.76	Historical Data - Previous Consultant
Muni-Well-12	12/5/2007	ND U	0.76	Historical Data - Previous Consultant
Muni-Well-12	10/24/2008	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-12	11/30/2009	No result	0.68	Historical Data - Previous Consultant
Muni-Well-12	11/30/2009	ND U	0.68	Historical Data - Previous Consultant
Muni-Well-12	9/14/2010	No result	0.58	Historical Data - Previous Consultant
Muni-Well-12	9/14/2010	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-12	9/13/2011	No result	0.58	Historical Data - Previous Consultant
Muni-Well-12	9/13/2011	ND U	0.58	Historical Data - Previous Consultant
Muni-Well-12	10/11/2012	No result	0.75	Historical Data - Previous Consultant
Muni-Well-12	10/11/2012	ND U	0.75	Historical Data - Previous Consultant
Muni-Well-12	9/18/2013	No result	0.54	Historical Data - Previous Consultant
Muni-Well-12	9/18/2013	ND U	0.54	Historical Data - Previous Consultant
Muni-Well-12	9/9/2014	No result	0.54	Historical Data - Previous Consultant
Muni-Well-12	9/9/2014	ND U	0.54	Historical Data - Previous Consultant
Muni-Well-12	9/10/2015	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-12	10/18/2016	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-12	10/5/2017	ND U	0.53	Historical Data - Previous Consultant
Muni-Well-12	9/26/2018	ND U	1	Historical Data - Previous Consultant
Muni-Well-13	6/29/1993	No result	2	Historical Data - Previous Consultant
Muni-Well-13	7/20/1993	No result	2.5	Historical Data - Previous Consultant
Muni-Well-13	10/18/1993	No result	2.7	Historical Data - Previous Consultant
Muni-Well-13	3/17/1994	No result	3.8	Historical Data - Previous Consultant
Muni-Well-13	5/26/1994	No result	3.2	Historical Data - Previous Consultant
Muni-Well-13	6/2/1994	No result	3.2	Historical Data - Previous Consultant
Muni-Well-13	8/23/1994	No result	3.1	Historical Data - Previous Consultant
Muni-Well-13	11/28/1994	0.6	6.2	Historical Data - Previous Consultant
Muni-Well-13	12/12/1994	0.5	5.7	Historical Data - Previous Consultant
Muni-Well-13	7/10/1997	No result	4.5	Historical Data - Previous Consultant
Muni-Well-13	10/19/1998	No result	3.5	Historical Data - Previous Consultant
Muni-Well-13	2/2/1999	No result	3	Historical Data - Previous Consultant
Muni-Well-13	12/21/1999	No result	3.6	Historical Data - Previous Consultant
Muni-Well-13	9/26/2000	No result	0.5	Historical Data - Previous Consultant
Muni-Well-13	2/27/2001	No result	1.1	Historical Data - Previous Consultant
Muni-Well-13	6/26/2001	No result	0.9	Historical Data - Previous Consultant
Muni-Well-13	9/18/2001	No result	1.1	Historical Data - Previous Consultant

Appendix C - Part 2
PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
Muni-Well-13	10/8/2001	No result	1.1	Historical Data - Previous Consultant
Muni-Well-13	1/31/2002	No result	2	Historical Data - Previous Consultant
Muni-Well-13	6/17/2002	No result	1.1	Historical Data - Previous Consultant
Muni-Well-13	9/4/2002	No result	1.1	Historical Data - Previous Consultant
Muni-Well-13	9/16/2003	No result	2.2	Historical Data - Previous Consultant
Muni-Well-13	6/23/2004	ND U	0.6	Historical Data - Previous Consultant
Muni-Well-13	9/8/2004	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-13	10/26/2005	No result	0.8	Historical Data - Previous Consultant
Muni-Well-13	10/26/2005	ND U	0.8	Historical Data - Previous Consultant
Muni-Well-13	9/20/2006	No result	0.7	Historical Data - Previous Consultant
Muni-Well-13	9/20/2006	ND U	0.7	Historical Data - Previous Consultant
Muni-Well-13	12/5/2007	No result	0.82	Historical Data - Previous Consultant
Muni-Well-13	12/5/2007	ND U	0.82	Historical Data - Previous Consultant
Muni-Well-13	10/24/2008	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-13	11/30/2009	No result	0.81	Historical Data - Previous Consultant
Muni-Well-13	11/30/2009	ND U	0.81	Historical Data - Previous Consultant
Muni-Well-13	9/14/2010	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-13	9/13/2011	No result	0.77	Historical Data - Previous Consultant
Muni-Well-13	9/13/2011	ND U	0.77	Historical Data - Previous Consultant
Muni-Well-13	10/2/2012	No result	0.67	Historical Data - Previous Consultant
Muni-Well-13	10/2/2012	ND U	0.67	Historical Data - Previous Consultant
Muni-Well-13	9/18/2013	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-13	9/9/2014	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-13	9/10/2015	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-13	10/17/2016	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-13	10/5/2017	ND U	0.75	Historical Data - Previous Consultant
Muni-Well-13	9/26/2018	ND U	1.17	Historical Data - Previous Consultant
Muni-Well-14	3/24/1993	No result	3.8	Historical Data - Previous Consultant
Muni-Well-14	6/29/1993	No result	4.6	Historical Data - Previous Consultant
Muni-Well-14	7/20/1993	No result	6.3	Historical Data - Previous Consultant
Muni-Well-14	10/18/1993	0.6	5.2	Historical Data - Previous Consultant
Muni-Well-14	11/28/1994	0.8	9.4	Historical Data - Previous Consultant
Muni-Well-14	10/19/1998	No result	6.1	Historical Data - Previous Consultant
Muni-Well-14	2/1/1999	No result	4.7	Historical Data - Previous Consultant
Muni-Well-14	6/23/2004	ND U	2.2	Historical Data - Previous Consultant
Muni-Well-14	9/8/2004	ND U	1.9	Historical Data - Previous Consultant
Muni-Well-14	6/8/2005	ND U	1.2	Historical Data - Previous Consultant
Muni-Well-14	6/13/2018	ND U	2.46	Historical Data - Previous Consultant
Muni-Well-14	9/26/2018	ND U	1.4	Historical Data - Previous Consultant
Muni-Well-14	6/19/2019	ND U	1.1	2019 June Offsite Residential
Muni-Well-14	6/24/2020	0.25 J	1.2	2020 Spring Off-Site Sampling
Muni-Well-14	6/21/2021	ND U	1.2	2021 June Offsite Sampling
Muni-Well-16	3/24/1993	No result	1.1	Historical Data - Previous Consultant
Muni-Well-16	6/7/1993	No result	1.2	Historical Data - Previous Consultant
Muni-Well-16	7/20/1993	No result	1.2	Historical Data - Previous Consultant
Muni-Well-16	10/18/1993	No result	1.2	Historical Data - Previous Consultant
Muni-Well-16	3/16/1994	No result	2.2	Historical Data - Previous Consultant
Muni-Well-16	5/26/1994	No result	2	Historical Data - Previous Consultant
Muni-Well-16	8/23/1994	No result	1.9	Historical Data - Previous Consultant
Muni-Well-16	12/21/1994	No result	1.4	Historical Data - Previous Consultant
Muni-Well-16	3/21/1995	No result	1.8	Historical Data - Previous Consultant
Muni-Well-16	5/12/1997	No result	2.1	Historical Data - Previous Consultant
Muni-Well-16	10/19/1998	No result	2.6	Historical Data - Previous Consultant
Muni-Well-16	2/1/1999	No result	3.4	Historical Data - Previous Consultant
Muni-Well-16	12/21/1999	No result	2.6	Historical Data - Previous Consultant
Muni-Well-16	9/26/2000	No result	0.9	Historical Data - Previous Consultant
Muni-Well-16	2/27/2001	No result	1.3	Historical Data - Previous Consultant
Muni-Well-16	9/18/2001	No result	1	Historical Data - Previous Consultant
Muni-Well-16	1/31/2002	No result	1	Historical Data - Previous Consultant
Muni-Well-16	9/4/2002	No result	0.8	Historical Data - Previous Consultant
Muni-Well-16	9/16/2003	No result	2.2	Historical Data - Previous Consultant
Muni-Well-16	10/26/2005	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-16	12/5/2007	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-16	2/23/2009	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-16	4/22/2009	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-16	6/8/2009	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-16	10/17/2016	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-29	10/10/2002	No result	0.6	Historical Data - Previous Consultant
Muni-Well-29	10/26/2005	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-29	9/14/2010	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-29	10/17/2016	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-30	7/20/1993	No result	0.8	Historical Data - Previous Consultant
Muni-Well-30	10/18/1993	No result	1.2	Historical Data - Previous Consultant
Muni-Well-30	3/16/1994	No result	1.9	Historical Data - Previous Consultant
Muni-Well-30	5/26/1994	No result	2	Historical Data - Previous Consultant
Muni-Well-30	8/23/1994	No result	1.4	Historical Data - Previous Consultant
Muni-Well-30	11/28/1994	No result	1.1	Historical Data - Previous Consultant
Muni-Well-30	6/27/1996	No result	0.6	Historical Data - Previous Consultant
Muni-Well-30	5/12/1997	No result	1	Historical Data - Previous Consultant
Muni-Well-30	10/19/1998	No result	1.5	Historical Data - Previous Consultant

Appendix C - Part 2
PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
Muni-Well-30	2/1/1999	No result	1.6	Historical Data - Previous Consultant
Muni-Well-30	12/21/1999	No result	0.9	Historical Data - Previous Consultant
Muni-Well-30	9/26/2000	No result	0.5	Historical Data - Previous Consultant
Muni-Well-30	2/27/2001	No result	0.8	Historical Data - Previous Consultant
Muni-Well-30	9/18/2001	No result	0.9	Historical Data - Previous Consultant
Muni-Well-30	10/8/2001	No result	0.6	Historical Data - Previous Consultant
Muni-Well-30	9/16/2003	No result	2.1	Historical Data - Previous Consultant
Muni-Well-30	6/23/2004	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-33	3/25/1993	0.74	8.4	Historical Data - Previous Consultant
Muni-Well-33	6/29/1993	0.7	7	Historical Data - Previous Consultant
Muni-Well-33	10/18/1993	0.7	7.1	Historical Data - Previous Consultant
Muni-Well-33	6/2/1994	1.2	15	Historical Data - Previous Consultant
Muni-Well-33	11/28/1994	1.2	13.2	Historical Data - Previous Consultant
Muni-Well-33	10/19/1998	1.6	14.4	Historical Data - Previous Consultant
Muni-Well-33	2/1/1999	0.6	9.6	Historical Data - Previous Consultant
Muni-Well-33	9/26/2000	No result	3.9	Historical Data - Previous Consultant
Muni-Well-33	6/23/2004	ND U	2.8	Historical Data - Previous Consultant
Muni-Well-33	9/8/2004	ND U	2.1	Historical Data - Previous Consultant
Muni-Well-33	6/8/2005	ND U	2	Historical Data - Previous Consultant
Muni-Well-33	1/23/2006	ND U	2.5	Historical Data - Previous Consultant
Muni-Well-33	6/8/2009	No result	2.27	Historical Data - Previous Consultant
Muni-Well-33	6/8/2009	ND U	2.27	Historical Data - Previous Consultant
Muni-Well-33	9/29/2009	ND U	2.67	Historical Data - Previous Consultant
Muni-Well-33	5/2/2018	0.55	5.16	Historical Data - Previous Consultant
Muni-Well-33	6/18/2018	ND U	4.41	Historical Data - Previous Consultant
Muni-Well-33	9/26/2018	0.51	3.24	Historical Data - Previous Consultant
Muni-Well-33	6/19/2019	0.31 J	1.9	2019 June Offsite Residential
Muni-Well-33	6/24/2020	0.37 J	2.1	2020 Spring Off-Site Sampling
Muni-Well-33	6/21/2021	0.39 J	1.9	2021 June Offsite Sampling
Muni-Well-36	10/14/1993	No result	1.2	Historical Data - Previous Consultant
Muni-Well-36	3/16/1994	0.5	4	Historical Data - Previous Consultant
Muni-Well-36	5/26/1994	No result	3.1	Historical Data - Previous Consultant
Muni-Well-36	8/23/1994	No result	4	Historical Data - Previous Consultant
Muni-Well-36	11/28/1994	No result	5.2	Historical Data - Previous Consultant
Muni-Well-36	12/12/1994	0.5	6	Historical Data - Previous Consultant
Muni-Well-36	6/7/1995	No result	4.7	Historical Data - Previous Consultant
Muni-Well-36	9/18/1995	No result	4.9	Historical Data - Previous Consultant
Muni-Well-36	12/15/1995	No result	3.9	Historical Data - Previous Consultant
Muni-Well-36	3/29/1996	No result	3	Historical Data - Previous Consultant
Muni-Well-36	6/27/1996	0.7	4.9	Historical Data - Previous Consultant
Muni-Well-36	7/10/1997	No result	4.3	Historical Data - Previous Consultant
Muni-Well-36	8/21/1997	No result	5.2	Historical Data - Previous Consultant
Muni-Well-36	8/28/1997	0.6	6.2	Historical Data - Previous Consultant
Muni-Well-36	9/22/1997	No result	4.8	Historical Data - Previous Consultant
Muni-Well-36	9/30/1997	0.5	5.3	Historical Data - Previous Consultant
Muni-Well-36	6/8/1998	0.71	10.9	Historical Data - Previous Consultant
Muni-Well-36	10/19/1998	No result	3.5	Historical Data - Previous Consultant
Muni-Well-36	2/1/1999	No result	3.4	Historical Data - Previous Consultant
Muni-Well-36	10/11/1999	No result	4.2	Historical Data - Previous Consultant
Muni-Well-36	12/21/1999	No result	4.2	Historical Data - Previous Consultant
Muni-Well-36	9/26/2000	No result	0.9	Historical Data - Previous Consultant
Muni-Well-36	2/27/2001	No result	1	Historical Data - Previous Consultant
Muni-Well-36	6/26/2001	No result	0.9	Historical Data - Previous Consultant
Muni-Well-36	9/18/2001	No result	1.4	Historical Data - Previous Consultant
Muni-Well-36	6/17/2002	No result	1.5	Historical Data - Previous Consultant
Muni-Well-36	10/10/2002	No result	1.1	Historical Data - Previous Consultant
Muni-Well-36	9/16/2003	No result	2.2	Historical Data - Previous Consultant
Muni-Well-36	6/23/2004	ND U	1.38	Historical Data - Previous Consultant
Muni-Well-36	9/8/2004	No result	0.6	Historical Data - Previous Consultant
Muni-Well-36	10/26/2005	No result	0.7	Historical Data - Previous Consultant
Muni-Well-36	10/26/2005	ND U	0.7	Historical Data - Previous Consultant
Muni-Well-36	9/20/2006	No result	0.7	Historical Data - Previous Consultant
Muni-Well-36	12/5/2007	No result	0.88	Historical Data - Previous Consultant
Muni-Well-36	12/5/2007	ND U	0.7	Historical Data - Previous Consultant
Muni-Well-36	10/24/2008	ND U	0.88	Historical Data - Previous Consultant
Muni-Well-36	11/30/2009	No result	0.81	Historical Data - Previous Consultant
Muni-Well-36	11/30/2009	ND U	0.81	Historical Data - Previous Consultant
Muni-Well-36	9/14/2010	No result	0.61	Historical Data - Previous Consultant
Muni-Well-36	9/13/2011	No result	0.85	Historical Data - Previous Consultant
Muni-Well-36	9/13/2011	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-36	10/2/2012	No result	0.9	Historical Data - Previous Consultant
Muni-Well-36	10/2/2012	0.9	0.85	Historical Data - Previous Consultant
Muni-Well-36	9/9/2014	No result	0.59	Historical Data - Previous Consultant
Muni-Well-36	9/9/2014	ND U	0.59	Historical Data - Previous Consultant
Muni-Well-36	10/17/2016	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-36	10/5/2017	ND U	0.71	Historical Data - Previous Consultant
Muni-Well-39	12/19/2005	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-39	11/15/2007	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-39	6/1/2011	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-39	12/6/2016	ND U	ND U	Historical Data - Previous Consultant

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PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
Muni-Well-44	12/5/2007	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-44	9/14/2010	ND U	ND U	Historical Data - Previous Consultant
Muni-Well-44	10/17/2016	ND U	ND U	Historical Data - Previous Consultant
MW-103D	3/23/1994	No result	0.35	Historical Data - Previous Consultant
MW-103D	6/21/1994	No result	1	Historical Data - Previous Consultant
MW-103D	12/13/1994	No result	1	Historical Data - Previous Consultant
MW-103D	3/20/1997	0.6	8.2	Historical Data - Previous Consultant
MW-103D	5/28/1998	No result	2	Historical Data - Previous Consultant
MW-103D	8/9/2017	ND U	ND U	Historical Data - Previous Consultant
MW-103D	10/9/2018	ND U	ND U	2018 Fall Groundwater
MW-103D	5/7/2019	ND U	ND U	2019 Spring Groundwater
MW-103S	3/23/1994	13	130	Historical Data - Previous Consultant
MW-103S	6/1/1994	5.4	67	Historical Data - Previous Consultant
MW-103S	6/21/1994	5.4	67	Historical Data - Previous Consultant
MW-103S	12/13/1994	3.5	52	Historical Data - Previous Consultant
MW-103S	3/20/1997	7	0.7	Historical Data - Previous Consultant
MW-103S	5/28/1998	No result	2	Historical Data - Previous Consultant
MW-103S	10/30/1998	1	10	Historical Data - Previous Consultant
MW-103S	6/7/1999	No result	4	Historical Data - Previous Consultant
MW-103S	7/14/1999	No result	2	Historical Data - Previous Consultant
MW-103S	10/8/1999	2	16	Historical Data - Previous Consultant
MW-103S	1/5/2000	4	36	Historical Data - Previous Consultant
MW-103S	4/12/2000	7	61	Historical Data - Previous Consultant
MW-103S	7/11/2000	7	54	Historical Data - Previous Consultant
MW-103S	10/5/2000	7	57	Historical Data - Previous Consultant
MW-103S	1/8/2001	8	51	Historical Data - Previous Consultant
MW-103S	4/9/2001	10	58	Historical Data - Previous Consultant
MW-103S	7/10/2001	7	37	Historical Data - Previous Consultant
MW-103S	10/2/2001	5	33	Historical Data - Previous Consultant
MW-103S	1/9/2002	5	34	Historical Data - Previous Consultant
MW-103S	4/2/2002	12	66	Historical Data - Previous Consultant
MW-103S	7/9/2002	4	30	Historical Data - Previous Consultant
MW-103S	10/7/2002	3	18	Historical Data - Previous Consultant
MW-103S	1/13/2003	4	22	Historical Data - Previous Consultant
MW-103S	4/3/2003	5	29	Historical Data - Previous Consultant
MW-103S	7/7/2003	4	27	Historical Data - Previous Consultant
MW-103S	9/29/2003	6	33	Historical Data - Previous Consultant
MW-103S	1/15/2004	4	28	Historical Data - Previous Consultant
MW-103S	4/5/2004	8	52	Historical Data - Previous Consultant
MW-103S	6/30/2004	7	40	Historical Data - Previous Consultant
MW-103S	10/4/2004	3	26	Historical Data - Previous Consultant
MW-103S	1/5/2005	4	23	Historical Data - Previous Consultant
MW-103S	3/25/2009	11.9	77.6	Historical Data - Previous Consultant
MW-103S	10/19/2009	7.7	46.4	Historical Data - Previous Consultant
MW-103S	1/9/2010	5.2	33.6	Historical Data - Previous Consultant
MW-103S	4/14/2010	9.2	61.7	Historical Data - Previous Consultant
MW-103S	6/28/2010	8.6	55.8	Historical Data - Previous Consultant
MW-103S	9/29/2010	5.1	33.7	Historical Data - Previous Consultant
MW-103S	10/15/2010	5.1	33.7	Historical Data - Previous Consultant
MW-103S	1/5/2011	7.8	50.9	Historical Data - Previous Consultant
MW-103S	1/6/2011	7.8	50.9	Historical Data - Previous Consultant
MW-103S	4/19/2011	7.6	54	Historical Data - Previous Consultant
MW-103S	7/11/2011	0.47 J	2.8	Historical Data - Previous Consultant
MW-103S	10/19/2011	ND U	0.65 J	Historical Data - Previous Consultant
MW-103S	1/6/2012	0.68 J	4	Historical Data - Previous Consultant
MW-103S	1/10/2012	0.68 J	4	Historical Data - Previous Consultant
MW-103S	4/19/2012	2.2	14.8	Historical Data - Previous Consultant
MW-103S	7/27/2012	1.7 J	16.5 J	Historical Data - Previous Consultant
MW-103S	10/10/2012	2.8	30	Historical Data - Previous Consultant
MW-103S	1/17/2013	5	42.3	Historical Data - Previous Consultant
MW-103S	4/8/2013	5.8	52.6	Historical Data - Previous Consultant
MW-103S	4/10/2013	5.8	52.6	Historical Data - Previous Consultant
MW-103S	7/22/2013	2.8	33.1	Historical Data - Previous Consultant
MW-103S	10/8/2013	0.82 J	7.5 J	Historical Data - Previous Consultant
MW-103S	1/21/2014	1.3	10.1	Historical Data - Previous Consultant
MW-103S	4/9/2014	1.5	13.2	Historical Data - Previous Consultant
MW-103S	7/16/2014	1.4	8.8	Historical Data - Previous Consultant
MW-103S	10/16/2014	1	11.2	Historical Data - Previous Consultant
MW-103S	4/29/2015	2.7 J	16.8	Historical Data - Previous Consultant
MW-103S	7/8/2015	2.1	15.5	Historical Data - Previous Consultant
MW-103S	1/7/2016	5.2	32.2	Historical Data - Previous Consultant
MW-103S	4/12/2016	8.3	55.7	Historical Data - Previous Consultant
MW-103S	4/13/2016	8.3	55.7	Historical Data - Previous Consultant
MW-103S	7/20/2016	4.7	27.8	Historical Data - Previous Consultant
MW-103S	7/21/2016	4.7	27.8	Historical Data - Previous Consultant
MW-103S	12/14/2016	4.06	28	Historical Data - Previous Consultant
MW-103S	2/16/2017	7.19	60.1	Historical Data - Previous Consultant
MW-103S	5/2/2017	1.77	12.6	Historical Data - Previous Consultant
MW-103S	7/20/2017	2.72	20.7	Historical Data - Previous Consultant
MW-103S	8/9/2017	0.471 J	1.72	Historical Data - Previous Consultant

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PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
MW-103S	1/25/2018	1.39	7.47	2018 Winter Groundwater
MW-103S	4/16/2018	1.11	5.2	2018 Spring Groundwater
MW-103S	10/9/2018	1.4	8	2018 Fall Groundwater
MW-103S	5/6/2019	1.6 J	10 J	2019 Spring Groundwater
MW-103S	10/7/2019	0.91 J	4.4	2019 Fall Sampling Event
MW-103S	6/6/2020	1.1	6.8	2020 Spring On-Site Sampling
MW-103S	9/12/2020	2.9	17	2020 Fall Groundwater
MW-103S	4/23/2021	2.8	14	2021 Spring Groundwater
MW-103S	5/8/2022	2.3 J	14 J	2022 Spring Groundwater
MW-103S	4/15/2023	5.2	30	2023 Spring Groundwater
MW-106D	8/15/2017	ND U	ND U	Historical Data - Previous Consultant
MW-106D	10/8/2018	ND U	ND U	2018 Fall Groundwater
MW-106D	6/19/2019	ND U	ND U	2019 June Offsite Residential
MW-106S	8/15/2017	ND U	ND U	Historical Data - Previous Consultant
MW-106S	10/7/2018	ND U	ND U	2018 Fall Groundwater
MW-106S	6/19/2019	ND U	ND U	2019 June Offsite Residential
MW-106S	9/16/2020	ND U	ND U	2020 Fall Groundwater
MW-107S	5/12/1999	2	18	Historical Data - Previous Consultant
MW-107S	6/2/1999	3	728	Historical Data - Previous Consultant
MW-107S	7/6/1999	3	42	Historical Data - Previous Consultant
MW-107S	7/7/1999	3	42	Historical Data - Previous Consultant
MW-107S	10/14/1999	1	16	Historical Data - Previous Consultant
MW-107S	1/5/2000	No result	7	Historical Data - Previous Consultant
MW-107S	4/11/2000	No result	8	Historical Data - Previous Consultant
MW-107S	7/12/2000	No result	3	Historical Data - Previous Consultant
MW-107S	10/5/2000	No result	4	Historical Data - Previous Consultant
MW-107S	1/8/2001	1	13	Historical Data - Previous Consultant
MW-107S	4/11/2001	1	13	Historical Data - Previous Consultant
MW-107S	7/12/2001	No result	8	Historical Data - Previous Consultant
MW-107S	10/3/2001	No result	5	Historical Data - Previous Consultant
MW-107S	1/9/2002	1	9	Historical Data - Previous Consultant
MW-107S	4/3/2002	No result	17	Historical Data - Previous Consultant
MW-107S	4/4/2002	No result	17	Historical Data - Previous Consultant
MW-115D	8/15/2017	ND U	2.17	Historical Data - Previous Consultant
MW-115D	5/23/2018	ND U	ND U	2018 Spring Groundwater
MW-115D	10/8/2018	ND U	ND U	2018 Fall Groundwater
MW-115D	5/7/2019	ND U	ND U	2019 Spring Groundwater
MW-115S	10/20/1999	No result	1	Historical Data - Previous Consultant
MW-115S	1/9/2002	No result	2	Historical Data - Previous Consultant
MW-115S	4/4/2002	No result	1	Historical Data - Previous Consultant
MW-115S	7/10/2002	No result	1	Historical Data - Previous Consultant
MW-115S	8/15/2017	1.44	11.6	Historical Data - Previous Consultant
MW-115S	5/23/2018	ND U	0.528 J	2018 Spring Groundwater
MW-115S	10/8/2018	ND U	0.35 J	2018 Fall Groundwater
MW-115S	5/7/2019	ND U	ND U	2019 Spring Groundwater
MW-115S	10/7/2019	ND U	0.29 J	2019 Fall Sampling Event
MW-115S	6/9/2020	ND U	ND U	2020 Spring On-Site Sampling
MW-115S	9/16/2020	ND U	0.23 J	2020 Fall Groundwater
MW-115S	4/25/2021	ND U	ND U	2021 Spring Groundwater
MW-115S	5/8/2022	ND U	ND U	2022 Spring Groundwater
MW-115S	4/15/2023	ND U	0.45 J	2023 Spring Groundwater
MW-116D	8/11/2017	ND U	ND U	Historical Data - Previous Consultant
MW-116D	10/19/2018	ND U	ND U	2018 Fall Groundwater
MW-116D	10/19/2018	ND U	ND U	2018 Fall Groundwater
MW-116D	6/28/2019	ND U	ND U	2019 June Offsite Residential
MW-116S	1/7/2000	6	57	Historical Data - Previous Consultant
MW-116S	4/12/2000	7	65	Historical Data - Previous Consultant
MW-116S	7/17/2000	2	18	Historical Data - Previous Consultant
MW-116S	10/11/2000	No result	21	Historical Data - Previous Consultant
MW-116S	1/9/2001	1	13	Historical Data - Previous Consultant
MW-116S	4/11/2001	1	12	Historical Data - Previous Consultant
MW-116S	7/11/2001	1	11	Historical Data - Previous Consultant
MW-116S	4/4/2002	1	17	Historical Data - Previous Consultant
MW-116S	7/8/2002	3	28	Historical Data - Previous Consultant
MW-116S	10/8/2002	2	22	Historical Data - Previous Consultant
MW-116S	1/9/2003	2	19	Historical Data - Previous Consultant
MW-116S	4/2/2003	1	15	Historical Data - Previous Consultant
MW-116S	7/8/2003	1	12	Historical Data - Previous Consultant
MW-116S	9/30/2003	1	10	Historical Data - Previous Consultant
MW-116S	4/5/2004	No result	6	Historical Data - Previous Consultant
MW-116S	7/1/2004	No result	6	Historical Data - Previous Consultant
MW-116S	10/4/2004	No result	5	Historical Data - Previous Consultant
MW-116S	1/6/2005	No result	5	Historical Data - Previous Consultant
MW-116S	8/11/2017	2.93	21.6	Historical Data - Previous Consultant
MW-116S	10/19/2018	2.2	26	2018 Fall Groundwater
MW-116S	6/28/2019	3	31	2019 June Offsite Residential
MW-116S	6/26/2020	3.7	26	2020 Spring Off-Site Sampling
MW-116S	9/13/2020	5.8	43	2020 Fall Groundwater
MW-116S	6/26/2021	4.2	27	2021 June Offsite Sampling
MW-116S	8/29/2021	2.9	25	2021 Fall On-Site Sampling

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PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
MW-116S	5/10/2022	2.4	19	2022 Spring Groundwater
MW-116S	10/18/2022	1.6	16	2022 Fall On-Site Sampling
MW-116S	7/23/2023	2	14	2023 July Offsite Sampling
MW-37	4/4/2018	ND U	2.65	2018 Spring Groundwater
MW-37	6/27/2019	0.39 J	2.6	2019 June Offsite Residential
MW-37	6/9/2020	ND U	2	2020 Spring On-Site Sampling
MW-37	6/22/2021	ND U	1.6	2021 June Offsite Sampling
MW-37	6/22/2021	ND U	1.3	2021 June Offsite Sampling
MW-38	8/10/2017	0.381 J	2.94	Historical Data - Previous Consultant
MW-38	4/5/2018	0.598 J	4.19	2018 Spring Groundwater
MW-38	6/26/2019	0.23 J	1.5	2019 June Offsite Residential
MW-38	6/9/2020	ND U	ND U	2020 Spring On-Site Sampling
MW-38	6/27/2021	ND U	2.2	2021 June Offsite Sampling
MW-38	6/27/2021	ND U	2.5	2021 June Offsite Sampling
MW-38	6/27/2021	ND U	2.5	2021 June Offsite Sampling
MW-38	6/18/2022	ND U	2	2022 June Offsite Sampling
MW-38	6/18/2022	ND U	ND U	2022 June Offsite Sampling
PA-1	4/25/1994	1.5	19.9	Historical Data - Previous Consultant
PA-1	8/8/1994	1.1	14.2	Historical Data - Previous Consultant
PA-1	11/12/1997	0.5	6.3	Historical Data - Previous Consultant
PA-1	6/26/2000	No result	6.8	Historical Data - Previous Consultant
PA-1	2/27/2001	No result	7.4	Historical Data - Previous Consultant
PA-1	1/31/2002	No result	4.7	Historical Data - Previous Consultant
PA-1	8/10/2017	ND U	2.12	Historical Data - Previous Consultant
PA-1	4/6/2018	0.409 J	2.94	2018 Spring Groundwater
PA-1	6/27/2019	ND U	1.6	2019 June Offsite Residential
PA-1	6/9/2020	ND U	1.6	2020 Spring On-Site Sampling
PA-1	6/9/2020	ND U	1.6	2020 Spring On-Site Sampling
PA-1	6/22/2021	ND U	1.5	2021 June Offsite Sampling
PA-1	7/22/2023	ND U	0.5 J	2023 July Offsite Sampling
PA-10	11/12/1997	No result	0.4	Historical Data - Previous Consultant
PA-10	6/21/2019	ND U	ND U	2019 June Offsite Residential
PA-10	6/10/2020	ND U	ND U	2020 Spring On-Site Sampling
PA-10	6/24/2021	ND U	ND U	2021 June Offsite Sampling
PA-2	11/12/1997	No result	0.7	Historical Data - Previous Consultant
PA-2	4/9/2018	ND U	ND U	2018 Spring Groundwater
PA-2	6/27/2019	ND U	ND U	2019 June Offsite Residential
PA-3	4/25/1994	0.9	11.6	Historical Data - Previous Consultant
PA-3	8/8/1994	0.8	10.5	Historical Data - Previous Consultant
PA-3	11/12/1997	0.7	9.9	Historical Data - Previous Consultant
PA-3	3/20/2000	No result	3.8	Historical Data - Previous Consultant
PA-3	6/26/2000	No result	3.8	Historical Data - Previous Consultant
PA-3	9/26/2000	No result	4.1	Historical Data - Previous Consultant
PA-3	2/27/2001	No result	8.3	Historical Data - Previous Consultant
PA-3	1/31/2002	No result	4.2	Historical Data - Previous Consultant
PA-3	8/10/2017	ND U	1.66	Historical Data - Previous Consultant
PA-3	4/9/2018	0.409 J	3.04	2018 Spring Groundwater
PA-3	6/27/2019	0.24 J	1.7	2019 June Offsite Residential
PA-3	6/9/2020	ND U	2	2020 Spring On-Site Sampling
PA-3	6/22/2021	ND U	1.2	2021 June Offsite Sampling
PA-3	7/22/2023	ND U	0.8 J	2023 July Offsite Sampling
PA-4	4/25/1994	2.1	26.5	Historical Data - Previous Consultant
PA-4	8/8/1994	1.8	22.5	Historical Data - Previous Consultant
PA-4	11/12/1997	1.2	15.5	Historical Data - Previous Consultant
PA-4	6/26/2000	No result	9.1	Historical Data - Previous Consultant
PA-4	2/27/2001	0.6	5.7	Historical Data - Previous Consultant
PA-4	1/31/2002	0.6	6.1	Historical Data - Previous Consultant
PA-4	9/16/2003	0.6	5.4	Historical Data - Previous Consultant
PA-4	8/10/2017	ND U	2.18	Historical Data - Previous Consultant
PA-4	4/9/2018	0.675 J	3.88	2018 Spring Groundwater
PA-4	4/9/2018	0.604 J	3.81	2018 Spring Groundwater
PA-4	4/9/2018	0.453 J	3.94	2018 Spring Groundwater
PA-4	6/27/2019	0.25 J	2.3	2019 June Offsite Residential
PA-4	6/27/2019	0.29 J	2.3	2019 June Offsite Residential
PA-4	6/27/2019	0.35 J	2.4	2019 June Offsite Residential
PA-4	6/10/2020	ND U	2.5	2020 Spring On-Site Sampling
PA-4	6/10/2020	0.63 J	2.8	2020 Spring On-Site Sampling
PA-4	6/11/2020	0.58 J	2.5	2020 Spring On-Site Sampling
PA-4	6/17/2022	ND U	1.6	2022 June Offsite Sampling
PA-4	6/17/2022	ND U	1.8	2022 June Offsite Sampling
PA-4	6/17/2022	ND U	1.6	2022 June Offsite Sampling
PA-4	7/22/2023	ND U	1.1	2023 July Offsite Sampling
PA-5	4/25/1994	2.1	8.2	Historical Data - Previous Consultant
PA-5	8/8/1994	No result	4.8	Historical Data - Previous Consultant
PA-5	11/12/1997	0.4	4.8	Historical Data - Previous Consultant
PA-5	3/21/2000	No result	0.5	Historical Data - Previous Consultant
PA-5	2/27/2001	No result	1.8	Historical Data - Previous Consultant
PA-5	1/31/2002	No result	1.9	Historical Data - Previous Consultant
PA-5	4/5/2018	ND U	1.76	2018 Spring Groundwater
PA-5	4/5/2018	ND U	1.96	2018 Spring Groundwater

Appendix C - Part 2
PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
PA-5	6/26/2019	ND U	1.1 J	2019 June Offsite Residential
PA-5	6/11/2020	ND U	0.86 J	2020 Spring On-Site Sampling
PA-5	6/27/2021	ND U	0.6 J	2021 June Offsite Sampling
PA-6	4/25/1994	0.6	7.6	Historical Data - Previous Consultant
PA-6	8/8/1994	No result	3.6	Historical Data - Previous Consultant
PA-6	11/17/1997	0.2	3.1	Historical Data - Previous Consultant
PA-6	3/20/2000	No result	1.3	Historical Data - Previous Consultant
PA-6	6/26/2000	No result	1.5	Historical Data - Previous Consultant
PA-6	9/26/2000	No result	1	Historical Data - Previous Consultant
PA-6	2/27/2001	No result	1.5	Historical Data - Previous Consultant
PA-6	1/31/2002	No result	1.6	Historical Data - Previous Consultant
PA-6	4/5/2018	ND U	0.87 J	2018 Spring Groundwater
PA-6	4/5/2018	ND U	1.36	2018 Spring Groundwater
PA-7	4/25/1994	0.8	7.9	Historical Data - Previous Consultant
PA-7	8/8/1994	0.6	7.3	Historical Data - Previous Consultant
PA-7	11/12/1997	0.3	3.6	Historical Data - Previous Consultant
PA-7	3/20/2000	No result	2.1	Historical Data - Previous Consultant
PA-7	6/26/2000	No result	2.9	Historical Data - Previous Consultant
PA-7	9/26/2000	No result	2	Historical Data - Previous Consultant
PA-7	2/27/2001	No result	1.9	Historical Data - Previous Consultant
PA-7	1/31/2002	No result	2.5	Historical Data - Previous Consultant
PA-7	4/4/2018	ND U	ND U	2018 Spring Groundwater
PA-8	4/25/1994	0.9	8.7	Historical Data - Previous Consultant
PA-8	8/8/1994	No result	6.5	Historical Data - Previous Consultant
PA-8	11/12/1997	0.3	3.4	Historical Data - Previous Consultant
PA-8	3/20/2000	No result	1.2	Historical Data - Previous Consultant
PA-8	6/26/2000	No result	2.3	Historical Data - Previous Consultant
PA-8	2/27/2001	No result	2.3	Historical Data - Previous Consultant
PA-8	1/31/2002	No result	1.9	Historical Data - Previous Consultant
PA-8	4/4/2018	ND U	0.879 J	2018 Spring Groundwater
PA-8	4/4/2018	ND U	0.674 J	2018 Spring Groundwater
PA-8	4/4/2018	ND U	0.869 J	2018 Spring Groundwater
PA-8	6/28/2019	ND U	0.45 J	2019 June Offsite Residential
PA-8	6/10/2020	ND U	0.26 J	2020 Spring On-Site Sampling
PA-8	6/10/2020	ND U	0.37 J	2020 Spring On-Site Sampling
PA-8	6/10/2020	ND U	0.32 J	2020 Spring On-Site Sampling
PA-8	6/23/2021	ND U	ND U	2021 June Offsite Sampling
PA-8	6/23/2021	ND U	ND U	2021 June Offsite Sampling
PA-8	6/18/2022	ND U	0.33 J	2022 June Offsite Sampling
PA-8	6/18/2022	ND U	ND U	2022 June Offsite Sampling
PA-8	7/23/2023	ND U	ND U	2023 July Offsite Sampling
PA-9	6/21/2019	ND U	ND U	2019 June Offsite Residential
PA-9	6/21/2019	ND U	ND U	2019 June Offsite Residential
PA-9	6/10/2020	ND U	ND U	2020 Spring On-Site Sampling
PA-9	6/10/2020	ND U	ND U	2020 Spring On-Site Sampling
PA-9	6/24/2021	ND U	ND U	2021 June Offsite Sampling
PA-9	6/24/2021	ND U	ND U	2021 June Offsite Sampling
PW-1	10/8/2002	16	138	Historical Data - Previous Consultant
PW-1	11/5/2002	20	150	Historical Data - Previous Consultant
PW-1	1/13/2003	18	130	Historical Data - Previous Consultant
PW-1	4/7/2003	15	133	Historical Data - Previous Consultant
PW-1	7/8/2003	21	161	Historical Data - Previous Consultant
PW-1	10/2/2003	21	167	Historical Data - Previous Consultant
PW-1	1/12/2004	18	142	Historical Data - Previous Consultant
PW-1	4/7/2004	21	172	Historical Data - Previous Consultant
PW-1	7/1/2004	17	143	Historical Data - Previous Consultant
PW-1	1/4/2005	20	151	Historical Data - Previous Consultant
PW-17	1/10/2012	25.4	106	Historical Data - Previous Consultant
PW-2	10/8/2002	27	125	Historical Data - Previous Consultant
PW-2	11/6/2002	19	94	Historical Data - Previous Consultant
PW-2	1/13/2003	40	176	Historical Data - Previous Consultant
PW-2	4/7/2003	26	142	Historical Data - Previous Consultant
PW-2	7/8/2003	23	130	Historical Data - Previous Consultant
PW-2	10/2/2003	25	149	Historical Data - Previous Consultant
PW-2	1/12/2004	26	152	Historical Data - Previous Consultant
PW-2	4/7/2004	28	156	Historical Data - Previous Consultant
PW-2	7/1/2004	29	161	Historical Data - Previous Consultant
PW-2	1/4/2005	30	172	Historical Data - Previous Consultant
PW-3	10/8/2002	10	59 J	Historical Data - Previous Consultant
PW-3	11/5/2002	15	83	Historical Data - Previous Consultant
PW-3	1/13/2003	22	74	Historical Data - Previous Consultant
PW-3	4/7/2003	21	111	Historical Data - Previous Consultant
PW-3	7/8/2003	18	96	Historical Data - Previous Consultant
PW-3	10/2/2003	12	71	Historical Data - Previous Consultant
PW-3	1/12/2004	18	96	Historical Data - Previous Consultant
PW-3	4/7/2004	28	176	Historical Data - Previous Consultant
PW-3	7/1/2004	21	147	Historical Data - Previous Consultant
PW-3	1/4/2005	29	260	Historical Data - Previous Consultant
PW-4	10/8/2002	7	62	Historical Data - Previous Consultant
PW-4	11/5/2002	20	137	Historical Data - Previous Consultant

Appendix C - Part 2
PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
PW-4	1/13/2003	21	145	Historical Data - Previous Consultant
PW-4	4/7/2003	17	124	Historical Data - Previous Consultant
PW-4	7/8/2003	15	120	Historical Data - Previous Consultant
PW-4	1/12/2004	18	130	Historical Data - Previous Consultant
PW-4	4/7/2004	21	171	Historical Data - Previous Consultant
PW-4	1/4/2005	24	190	Historical Data - Previous Consultant
PW-5	10/8/2002	13	127	Historical Data - Previous Consultant
PW-5	11/5/2002	18	141	Historical Data - Previous Consultant
PW-5	1/13/2003	26	152	Historical Data - Previous Consultant
PW-5	4/7/2003	20	124	Historical Data - Previous Consultant
PW-5	7/8/2003	16	111	Historical Data - Previous Consultant
PW-5	10/2/2003	16	140	Historical Data - Previous Consultant
PW-5	1/12/2004	21	100	Historical Data - Previous Consultant
PW-5	4/7/2004	20	148	Historical Data - Previous Consultant
PW-5	7/1/2004	20	128	Historical Data - Previous Consultant
PW-5	1/4/2005	21	153	Historical Data - Previous Consultant
PW-9	10/8/2002	13	56	Historical Data - Previous Consultant
PW-9	11/5/2002	23	91 J	Historical Data - Previous Consultant
PW-9	1/13/2003	24	94	Historical Data - Previous Consultant
PW-9	4/7/2003	17	82	Historical Data - Previous Consultant
PW-9	7/8/2003	14	63	Historical Data - Previous Consultant
PW-9	10/2/2003	21	83	Historical Data - Previous Consultant
PW-9	1/12/2004	24	162	Historical Data - Previous Consultant
PW-9	4/7/2004	24	150	Historical Data - Previous Consultant
PW-9	7/1/2004	19	105	Historical Data - Previous Consultant
PW-9	1/4/2005	20	102	Historical Data - Previous Consultant
RW-2076F	8/26/1992	15	210	Historical Data - Previous Consultant
RW-2076F	9/28/1992	12	150	Historical Data - Previous Consultant
RW-2076F	10/22/1992	15	No result	Historical Data - Previous Consultant
RW-2076F	12/1/1992	6.4	90	Historical Data - Previous Consultant
RW-2076F	12/3/1992	6.4	90	Historical Data - Previous Consultant
RW-2076F	1/20/1993	15	130	Historical Data - Previous Consultant
RW-2076F	2/25/1993	190	No result	Historical Data - Previous Consultant
RW-2076F	3/30/1993	190	260	Historical Data - Previous Consultant
RW-2076F	5/5/1993	290	290	Historical Data - Previous Consultant
RW-2076F	6/16/1993	0.88	6.9	Historical Data - Previous Consultant
RW-2076F	6/17/1993	0.66	6.9	Historical Data - Previous Consultant
RW-2076F	9/23/1993	0.24	2.31	Historical Data - Previous Consultant
RW-2076F	12/15/1993	No result	1.3	Historical Data - Previous Consultant
RW-2076F	3/24/1994	24	230	Historical Data - Previous Consultant
RW-2076F	6/20/1994	14	160	Historical Data - Previous Consultant
RW-2076F	12/14/1994	12	160	Historical Data - Previous Consultant
RW-2076F	7/18/1995	13	160	Historical Data - Previous Consultant
RW-2076F	12/20/1996	No result	0.67	Historical Data - Previous Consultant
RW-2076F	6/1/1998	13	No result	Historical Data - Previous Consultant
RW-2076F	11/9/1998	No result	7	Historical Data - Previous Consultant
RW-2076F	6/2/1999	No result	8	Historical Data - Previous Consultant
RW-2076F	7/6/1999	No result	6	Historical Data - Previous Consultant
RW-2076F	1/7/2000	8	59	Historical Data - Previous Consultant
RW-2076F	4/12/2000	10	77	Historical Data - Previous Consultant
RW-2076F	7/11/2000	10	68	Historical Data - Previous Consultant
RW-2076F	10/4/2000	9	68	Historical Data - Previous Consultant
RW-2076F	1/8/2001	11	63	Historical Data - Previous Consultant
RW-2076F	4/9/2001	12	70	Historical Data - Previous Consultant
RW-2076F	7/10/2001	9	49	Historical Data - Previous Consultant
RW-2076F	10/1/2001	6	34	Historical Data - Previous Consultant
RW-2076F	1/8/2002	9	54 J	Historical Data - Previous Consultant
RW-2076F	4/2/2002	14	80	Historical Data - Previous Consultant
RW-2076F	7/9/2002	8	48	Historical Data - Previous Consultant
RW-2076F	10/7/2002	6	32 J	Historical Data - Previous Consultant
RW-2076F	1/13/2003	7	37	Historical Data - Previous Consultant
RW-2076F	4/3/2003	9	46	Historical Data - Previous Consultant
RW-2076F	7/7/2003	7	37	Historical Data - Previous Consultant
RW-2076F	9/29/2003	6	31	Historical Data - Previous Consultant
RW-2076F	1/15/2004	7	37	Historical Data - Previous Consultant
RW-2076F	4/5/2004	11	60	Historical Data - Previous Consultant
RW-2076F	6/30/2004	8	45	Historical Data - Previous Consultant
RW-2076F	10/4/2004	6	32	Historical Data - Previous Consultant
RW-2076F	1/5/2005	7	38	Historical Data - Previous Consultant
RW-2076F	8/2/2017	ND U	0.588 J	Historical Data - Previous Consultant
RW-2076F	5/22/2018	ND U	1.89	2018 Spring Groundwater
RW-2076F	9/14/2020	6.6	36	2020 Fall Groundwater
RW-2076F	4/28/2021	5.3	29	2021 Spring Groundwater
RW-2076F	6/26/2021	4.6	24	2021 June Offsite Sampling
RW-2076F	8/27/2021	4.7	25	2022 June Offsite Sampling
RW-2076F	7/21/2023	ND U	0.92 J	2023 July Offsite Sampling
RW-2140H	9/28/1992	4.2	55	Historical Data - Previous Consultant
RW-2140H	3/23/1994	7.9	78	Historical Data - Previous Consultant
RW-2140H	3/24/1994	7.9	78	Historical Data - Previous Consultant
RW-2140H	6/3/1999	4	47	Historical Data - Previous Consultant

Appendix C - Part 2
PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
RW-2140H	7/7/1999	7	71	Historical Data - Previous Consultant
RW-2140H	10/15/1999	5	46	Historical Data - Previous Consultant
RW-2140H	4/13/2000	5	50	Historical Data - Previous Consultant
RW-2140H	7/11/2000	6	6	Historical Data - Previous Consultant
RW-2140H	7/11/2001	No result	5	Historical Data - Previous Consultant
RW-2140H	8/11/2017	5.68	33.9	Historical Data - Previous Consultant
RW-2140H	10/19/2018	4.9	34	2018 Fall Groundwater
RW-2140H	6/28/2019	4.6	30	2019 June Offsite Residential
RW-2140H	6/26/2020	6.1	34	2020 Spring Off-Site Sampling
RW-2140H	6/26/2021	4.5	26	2021 June Offsite Sampling
RW-2140H	10/18/2022	0.51 J	2.4	2022 Fall On-Site Sampling
RW-2140H	7/23/2023	4.3	24	2023 July Offsite Sampling
RW-2151H	9/28/1992	8.4	110	Historical Data - Previous Consultant
RW-2151H	3/23/1994	23	250	Historical Data - Previous Consultant
RW-2151H	3/24/1994	23	250	Historical Data - Previous Consultant
RW-2151H	3/20/1997	7.7	86.7	Historical Data - Previous Consultant
RW-2151H	11/13/1998	12	137	Historical Data - Previous Consultant
RW-2151H	6/3/1999	2	23	Historical Data - Previous Consultant
RW-2151H	7/12/2000	4	40	Historical Data - Previous Consultant
RW-2151H	11/16/2017	4.66	34.4	Historical Data - Previous Consultant
RW-2151H	6/21/2019	1.8	12	2019 June Offsite Residential
RW-2151H	6/21/2019	1.9	12	2019 June Offsite Residential
RW-2151H	6/23/2020	ND U	5.8	2020 Spring Off-Site Sampling
RW-2151H	6/23/2021	2.7	14	2021 June Offsite Sampling
RW-2151H	6/15/2022	ND U	0.79 J	2022 June Offsite Sampling
RW-2151H	7/20/2023	0.47 J	6	2023 July Offsite Sampling
RW-2172F	12/15/1993	0.34	No result	Historical Data - Previous Consultant
RW-2172F	8/2/2017	ND U	ND U	Historical Data - Previous Consultant
RW-2172F	6/17/2019	ND U	ND U	2019 June Offsite Residential
RW-2172F	6/22/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-2172F	6/25/2021	ND U	ND U	2021 June Offsite Sampling
RW-2172F	6/16/2022	ND U	ND U	2022 June Offsite Sampling
RW-2172F	7/18/2023	ND U	ND U	2023 July Offsite Sampling
RW-2172H	9/28/1992	12	140	Historical Data - Previous Consultant
RW-2172H	3/24/1994	15	140	Historical Data - Previous Consultant
RW-2172H	3/19/1997	21.5	207.1	Historical Data - Previous Consultant
RW-2172H	6/4/1999	7	72	Historical Data - Previous Consultant
RW-2172H	8/8/2017	6.69	37.7	Historical Data - Previous Consultant
RW-2172H	6/24/2019	7	42	2019 June Offsite Residential
RW-2172H	6/25/2020	4.9	28	2020 Spring Off-Site Sampling
RW-2172H	6/23/2021	5.4 J	21	2021 June Offsite Sampling
RW-2172H	6/23/2021	4.1 J	21	2021 June Offsite Sampling
RW-2172H	6/16/2022	2.9	16	2022 June Offsite Sampling
RW-2172H	7/21/2023	3.2	17	2023 July Offsite Sampling
RW-2203H	9/28/1992	18	140	Historical Data - Previous Consultant
RW-2203H	3/23/1994	28	250	Historical Data - Previous Consultant
RW-2203H	3/24/1994	28	250	Historical Data - Previous Consultant
RW-2203H	6/4/1999	4	49	Historical Data - Previous Consultant
RW-2203H	7/13/1999	7	72	Historical Data - Previous Consultant
RW-2203H	10/14/1999	7	68	Historical Data - Previous Consultant
RW-2203H	8/9/2017	2.5	27.5	Historical Data - Previous Consultant
RW-2203H	6/22/2019	4.6	31	2019 June Offsite Residential
RW-2203H	6/22/2019	4.7	31	2019 June Offsite Residential
RW-2203H	6/25/2020	5.2	33	2020 Spring Off-Site Sampling
RW-2203H	6/17/2022	2.9	18	2022 June Offsite Sampling
RW-2203H	6/17/2022	2.8	17	2022 June Offsite Sampling
RW-2203H	7/19/2023	1.3	13	2023 July Offsite Sampling
RW-2213F	8/2/2017	ND U	ND U	Historical Data - Previous Consultant
RW-2213F	5/22/2018	ND U	ND U	2018 Spring Groundwater
RW-2213F	6/20/2019	ND U	ND U	2019 June Offsite Residential
RW-2213F	6/25/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-2213F	7/21/2023	ND U	ND U	2023 July Offsite Sampling
RW-2237H	9/28/1992	6.2	33	Historical Data - Previous Consultant
RW-2237H	3/24/1994	1.5	14	Historical Data - Previous Consultant
RW-2237H	6/24/1994	1.5	14	Historical Data - Previous Consultant
RW-2237H	8/3/2017	7.84	44.3	Historical Data - Previous Consultant
RW-2237H	6/23/2020	1.9	9.8	2020 Spring Off-Site Sampling
RW-2237H	6/24/2021	1.2	8.6	2021 June Offsite Sampling
RW-2237H	6/15/2022	1.3	5.3	2022 June Offsite Sampling
RW-2237H	7/20/2023	4	25	2023 July Offsite Sampling
RW-2334F	6/24/2019	ND U	ND U	2019 June Offsite Residential
RW-2335F	6/23/2019	ND U	ND U	2019 June Offsite Residential
RW-2613M	6/25/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-2879M	8/11/2017	ND U	ND U	Historical Data - Previous Consultant
RW-2879M	6/18/2019	ND U	ND U	2019 June Offsite Residential
RW-2879M	6/24/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-2879M	6/24/2021	ND U	ND U	2021 June Offsite Sampling
RW-2879M	6/13/2022	ND U	ND U	2022 June Offsite Sampling
RW-2879M	7/20/2023	ND U	ND U	2023 July Offsite Sampling
RW-3259B	8/16/2017	ND U	ND U	Historical Data - Previous Consultant

Appendix C - Part 2
PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
RW-3259B	6/21/2019	ND U	ND U	2019 June Offsite Residential
RW-5898B1	7/30/1993	No result	4.5	Historical Data - Previous Consultant
RW-5898B1	6/18/1996	No result	5.03	Historical Data - Previous Consultant
RW-5898B1	6/17/1997	No result	5.65	Historical Data - Previous Consultant
RW-5898B1	7/29/1998	No result	5.87	Historical Data - Previous Consultant
RW-5898B1	8/23/1999	0.54	6.69	Historical Data - Previous Consultant
RW-5898B1	6/18/2000	No result	4.04	Historical Data - Previous Consultant
RW-5898B1	8/24/2001	No result	2.98	Historical Data - Previous Consultant
RW-5898B1	8/31/2004	No result	2.04	Historical Data - Previous Consultant
RW-5898B1	9/3/2008	No result	2.04	Historical Data - Previous Consultant
RW-5898B1	6/20/2019	ND U	0.88 J	2019 June Offsite Residential
RW-5898B1	6/22/2020	ND U	0.78 J	2020 Spring Off-Site Sampling
RW-5898B1	6/25/2021	ND U	0.26 J	2021 June Offsite Sampling
RW-6998P	1/6/2011	ND U	ND U	Historical Data - Previous Consultant
RW-6998P	4/20/2011	ND U	ND U	Historical Data - Previous Consultant
RW-6998P	7/13/2011	ND U	ND U	Historical Data - Previous Consultant
RW-6998P	6/20/2019	ND U	ND U	2019 June Offsite Residential
RW-7070B	6/18/2019	0.9 J	2.9	2019 June Offsite Residential
RW-7070B	6/22/2020	0.59 J	3.4	2020 Spring Off-Site Sampling
RW-7070B	6/24/2021	ND U	3.2	2021 June Offsite Sampling
RW-7077P	8/2/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7077P	6/23/2019	ND U	ND U	2019 June Offsite Residential
RW-7091R	6/24/2020	0.24 J	1.4	2020 Spring Off-Site Sampling
RW-7091R	6/22/2021	ND U	1	2021 June Offsite Sampling
RW-7200P	6/21/2021	ND U	ND U	2021 June Offsite Sampling
RW-7200P	6/13/2022	ND U	ND U	2022 June Offsite Sampling
RW-7200P	7/20/2023	ND U	ND U	2023 July Offsite Sampling
RW-7244P	8/8/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7244P	6/21/2019	ND U	ND U	2019 June Offsite Residential
RW-7244P	6/23/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-7244P	6/24/2021	ND U	ND U	2021 June Offsite Sampling
RW-7288P	7/14/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7288P	6/21/2019	ND U	ND U	2019 June Offsite Residential
RW-7310P	7/13/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7310P	6/19/2019	ND U	ND U	2019 June Offsite Residential
RW-7350P	8/3/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7350P	6/17/2019	ND U	ND U	2019 June Offsite Residential
RW-7350P	6/23/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-7350P	6/24/2021	ND U	ND U	2021 June Offsite Sampling
RW-7492P	7/12/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7492P	6/17/2019	ND U	ND U	2019 June Offsite Residential
RW-7498P	7/12/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7498P	6/18/2019	ND U	ND U	2019 June Offsite Residential
RW-7505P	9/28/1992	No result	0.6	Historical Data - Previous Consultant
RW-7505P	2/25/1993	No result	0.2	Historical Data - Previous Consultant
RW-7505P	12/15/1993	0.37	2.5	Historical Data - Previous Consultant
RW-7505P	6/21/1994	No result	0.28	Historical Data - Previous Consultant
RW-7505P	7/18/1995	No result	0.38	Historical Data - Previous Consultant
RW-7505P	7/13/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7505P	6/21/2019	ND U	0.29 J	2019 June Offsite Residential
RW-7505P	6/24/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-7505P	6/24/2021	ND U	ND U	2021 June Offsite Sampling
RW-7505P	6/16/2022	ND U	0.35 J	2022 June Offsite Sampling
RW-7505P	7/20/2023	ND U	ND U	2023 July Offsite Sampling
RW-7549P	9/28/1992	No result	1.1	Historical Data - Previous Consultant
RW-7549P	2/25/1993	No result	1.1	Historical Data - Previous Consultant
RW-7549P	3/30/1993	No result	0.71	Historical Data - Previous Consultant
RW-7549P	5/5/1993	No result	0.7	Historical Data - Previous Consultant
RW-7549P	6/16/1993	No result	0.89	Historical Data - Previous Consultant
RW-7549P	6/17/1993	No result	0.89	Historical Data - Previous Consultant
RW-7549P	9/23/1993	0.24	2.83	Historical Data - Previous Consultant
RW-7549P	3/22/1994	No result	0.7	Historical Data - Previous Consultant
RW-7549P	6/20/1994	No result	0.31	Historical Data - Previous Consultant
RW-7549P	12/14/1994	No result	0.7	Historical Data - Previous Consultant
RW-7549P	1/8/2002	No result	1	Historical Data - Previous Consultant
RW-7549P	7/14/2017	0.822 J	5.5	Historical Data - Previous Consultant
RW-7549P	5/23/2018	ND U	ND U	2018 Spring Groundwater
RW-7549P	6/18/2019	ND U	0.26 J	2019 June Offsite Residential
RW-7549P	6/24/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-7549P	6/24/2021	ND U	ND U	2021 June Offsite Sampling
RW-7549P	6/15/2022	ND U	ND U	2022 June Offsite Sampling
RW-7549P	7/21/2023	ND U	2	2023 July Offsite Sampling
RW-7586P	7/13/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7586P	6/20/2019	ND U	ND U	2019 June Offsite Residential
RW-7586P	6/24/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-7586P	6/21/2021	ND U	ND U	2021 June Offsite Sampling
RW-7588P	7/14/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7588P	6/19/2019	ND U	ND U	2019 June Offsite Residential
RW-7588P	6/24/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-7588P	6/25/2021	ND U	ND U	2021 June Offsite Sampling

Appendix C - Part 2
PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
RW-7677P	10/23/1992	No result	32	Historical Data - Previous Consultant
RW-7677P	3/22/1994	3.1	32	Historical Data - Previous Consultant
RW-7677P	6/21/1994	1	11	Historical Data - Previous Consultant
RW-7677P	10/1/1995	No result	32	Historical Data - Previous Consultant
RW-7677P	6/8/1999	No result	10	Historical Data - Previous Consultant
RW-7677P	7/10/2000	No result	6	Historical Data - Previous Consultant
RW-7677P	8/9/2017	5.45	33.8	Historical Data - Previous Consultant
RW-7677P	5/22/2018	0.614 J	2.95	2018 Spring Groundwater
RW-7677P	6/17/2019	1.2	6.3	2019 June Offsite Residential
RW-7677P	6/22/2020	1.2	5.9	2020 Spring Off-Site Sampling
RW-7677P	6/22/2020	1.2	5.8	2020 Spring Off-Site Sampling
RW-7677P	6/21/2021	1.1	5.3	2021 June Offsite Sampling
RW-7677P	6/13/2022	0.65 J	3.4 J	2022 June Offsite Sampling
RW-7677P	7/21/2023	1.2	7	2023 July Offsite Sampling
RW-7688P	8/8/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7688P	6/17/2019	ND U	ND U	2019 June Offsite Residential
RW-7688P	6/23/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-7688P	6/23/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-7688P	6/25/2021	ND U	ND U	2021 June Offsite Sampling
RW-7688P	6/13/2022	ND U	ND U	2022 June Offsite Sampling
RW-7773P	8/15/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7773P	10/7/2018	ND U	ND U	2018 Fall Groundwater
RW-7773P	6/19/2019	ND U	ND U	2019 June Offsite Residential
RW-7773P	6/22/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-7773P	6/21/2021	ND U	ND U	2021 June Offsite Sampling
RW-7773P	6/21/2021	ND U	ND U	2021 June Offsite Sampling
RW-7773P	6/13/2022	ND U	ND U	2022 June Offsite Sampling
RW-7773P	7/21/2023	ND U	ND U	2023 July Offsite Sampling
RW-7776P	8/8/2017	ND U	ND U	Historical Data - Previous Consultant
RW-7776P	6/20/2019	ND U	ND U	2019 June Offsite Residential
RW-7953P	1/6/2000	No result	3	Historical Data - Previous Consultant
RW-7953P	1/14/2001	No result	2	Historical Data - Previous Consultant
RW-7953P	4/10/2001	No result	1	Historical Data - Previous Consultant
RW-7953P	1/9/2002	No result	3	Historical Data - Previous Consultant
RW-7953P	4/3/2002	No result	2	Historical Data - Previous Consultant
RW-7953P	9/29/2003	No result	1	Historical Data - Previous Consultant
RW-7953P	1/5/2005	No result	2	Historical Data - Previous Consultant
RW-7953P	10/15/2007	No result	1.9	Historical Data - Previous Consultant
RW-7953P	3/26/2009	ND U	1.1	Historical Data - Previous Consultant
RW-7953P	10/19/2009	No result	0.53 J	Historical Data - Previous Consultant
RW-7953P	10/20/2009	ND U	0.53 J	Historical Data - Previous Consultant
RW-7953P	1/11/2010	ND U	ND U	Historical Data - Previous Consultant
RW-7953P	4/15/2010	ND U	ND U	Historical Data - Previous Consultant
RW-7953P	6/29/2010	ND U	ND U	Historical Data - Previous Consultant
RW-7953P	9/29/2010	0.38 J	0.97 J	Historical Data - Previous Consultant
RW-7953P	9/30/2010	0.38 J	0.97 J	Historical Data - Previous Consultant
RW-7953P	1/5/2011	ND U	0.57 J	Historical Data - Previous Consultant
RW-7953P	4/19/2011	No result	1	Historical Data - Previous Consultant
RW-7953P	4/20/2011	ND U	1	Historical Data - Previous Consultant
RW-7953P	7/13/2011	ND U	1.3	Historical Data - Previous Consultant
RW-7953P	10/18/2011	0.42 J	1.7	Historical Data - Previous Consultant
RW-7953P	1/10/2012	0.91 J	6.4	Historical Data - Previous Consultant
RW-7953P	4/19/2012	0.67 J	4.2	Historical Data - Previous Consultant
RW-7953P	4/21/2012	0.67 J	4.2	Historical Data - Previous Consultant
RW-7953P	8/16/2017	0.764 J	5.61	Historical Data - Previous Consultant
RW-8000B	8/21/1991	1.33	15.5	Historical Data - Previous Consultant
RW-8000B	7/8/1995	1.57	17.7	Historical Data - Previous Consultant
RW-8000B	8/23/1999	1.38	15.3	Historical Data - Previous Consultant
RW-8000B	8/31/2004	0.67	3.66	Historical Data - Previous Consultant
RW-8000B	5/28/2015	0.54	3.7	Historical Data - Previous Consultant
RW-8000B	8/3/2017	0.786 J	4.65	Historical Data - Previous Consultant
RW-8000B	6/18/2019	1	3.5	2019 June Offsite Residential
RW-8000B	6/9/2020	ND U	4.8	2020 Spring On-Site Sampling
RW-8000B	6/22/2021	0.84 J	4.1	2021 June Offsite Sampling
RW-8012P	6/13/1995	No result	1.8	Historical Data - Previous Consultant
RW-8012P	6/17/1997	1.43	18.6	Historical Data - Previous Consultant
RW-8012P	8/24/2001	No result	0.62	Historical Data - Previous Consultant
RW-8012P	6/30/2006	No result	1.65	Historical Data - Previous Consultant
RW-8012P	5/27/2015	0.33	2.3	Historical Data - Previous Consultant
RW-8012P	8/3/2017	0.381 J	2.08	Historical Data - Previous Consultant
RW-8012P	6/18/2019	0.79 J	2.2	2019 June Offsite Residential
RW-8012P	6/23/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-8012P	6/26/2021	ND U	ND U	2021 June Offsite Sampling
RW-8012P	6/14/2022	ND U	ND U	2022 June Offsite Sampling
RW-8012P	7/21/2023	ND U	0.99 J	2023 July Offsite Sampling
RW-8030P	8/20/1992	2.3	30	Historical Data - Previous Consultant
RW-8030P	6/13/1995	1.5	12.3	Historical Data - Previous Consultant
RW-8030P	6/18/1996	2.21	24.6	Historical Data - Previous Consultant
RW-8030P	6/8/1999	1	16	Historical Data - Previous Consultant
RW-8030P	6/19/2000	0.97	8.3	Historical Data - Previous Consultant

Appendix C - Part 2
PCE and TCE Historical Data for City and Domestic Wells

Well ID	Sample Date	PCE (µg/L)	TCE (µg/L)	Data Source
RW-8030P	7/10/2000	3	No result	Historical Data - Previous Consultant
RW-8030P	7/11/2000	No result	3	Historical Data - Previous Consultant
RW-8030P	1/4/2001	No result	3	Historical Data - Previous Consultant
RW-8030P	1/14/2001	No result	3	Historical Data - Previous Consultant
RW-8030P	4/11/2001	1	8	Historical Data - Previous Consultant
RW-8030P	7/10/2001	No result	7	Historical Data - Previous Consultant
RW-8030P	7/11/2001	No result	7	Historical Data - Previous Consultant
RW-8030P	10/1/2001	No result	4	Historical Data - Previous Consultant
RW-8030P	1/9/2002	1	8	Historical Data - Previous Consultant
RW-8030P	4/3/2002	1	7	Historical Data - Previous Consultant
RW-8030P	7/10/2002	No result	5	Historical Data - Previous Consultant
RW-8030P	10/7/2002	No result	5	Historical Data - Previous Consultant
RW-8030P	7/7/2003	No result	5	Historical Data - Previous Consultant
RW-8030P	9/29/2003	1	7	Historical Data - Previous Consultant
RW-8030P	4/5/2004	1	7	Historical Data - Previous Consultant
RW-8030P	6/30/2004	No result	6	Historical Data - Previous Consultant
RW-8030P	10/4/2004	No result	7	Historical Data - Previous Consultant
RW-8030P	10/14/2004	No result	7	Historical Data - Previous Consultant
RW-8030P	1/5/2005	No result	5	Historical Data - Previous Consultant
RW-8030P	10/15/2007	1.4	10	Historical Data - Previous Consultant
RW-8030P	3/26/2009	1.9	11.4	Historical Data - Previous Consultant
RW-8030P	10/19/2009	1.5	8.8	Historical Data - Previous Consultant
RW-8030P	10/20/2009	1.5	8.8	Historical Data - Previous Consultant
RW-8030P	1/9/2010	1.3	7.8	Historical Data - Previous Consultant
RW-8030P	1/11/2010	1.3	7.8	Historical Data - Previous Consultant
RW-8030P	4/14/2010	1.3	8.1	Historical Data - Previous Consultant
RW-8030P	4/15/2010	1.3	8.1	Historical Data - Previous Consultant
RW-8030P	6/28/2010	1.6	10.8	Historical Data - Previous Consultant
RW-8030P	6/29/2010	1.6	10.8	Historical Data - Previous Consultant
RW-8030P	9/29/2010	2.1	12	Historical Data - Previous Consultant
RW-8030P	9/30/2010	2.1	12	Historical Data - Previous Consultant
RW-8030P	1/5/2011	2.1	12	Historical Data - Previous Consultant
RW-8030P	4/19/2011	1.7	10.8	Historical Data - Previous Consultant
RW-8030P	4/20/2011	1.7	10.8	Historical Data - Previous Consultant
RW-8030P	7/13/2011	1.4	8.9	Historical Data - Previous Consultant
RW-8030P	10/18/2011	1.8	10.2	Historical Data - Previous Consultant
RW-8030P	1/10/2012	2.1	15	Historical Data - Previous Consultant
RW-8030P	4/19/2012	2.1	14	Historical Data - Previous Consultant
RW-8030P	4/21/2012	2.1	14	Historical Data - Previous Consultant
RW-8030P	8/1/2017	2.67	16.4	Historical Data - Previous Consultant
RW-8030P	6/20/2019	0.94 J	6	2019 June Offsite Residential
RW-8030P	6/24/2020	1.3	7.1	2020 Spring Off-Site Sampling
RW-8030P	6/23/2021	0.8 J	4.6	2021 June Offsite Sampling
RW-8030P	6/14/2022	0.76 J	4	2022 June Offsite Sampling
RW-8030P	7/20/2023	ND U	4.9	2023 July Offsite Sampling
RW-8035P	8/1/2017	ND U	ND U	Historical Data - Previous Consultant
RW-8035P	5/23/2018	ND U	ND U	2018 Spring Groundwater
RW-8035P	6/17/2019	ND U	ND U	2019 June Offsite Residential
RW-8035P	6/23/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-8035P	6/24/2021	ND U	ND U	2021 June Offsite Sampling
RW-8048P	6/22/2020	0.71 J	4	2020 Spring Off-Site Sampling
RW-8048P	6/24/2021	ND U	3.8	2021 June Offsite Sampling
RW-8048P	6/13/2022	ND U	1.8	2022 June Offsite Sampling
RW-8048P	6/13/2022	ND U	1.8	2022 June Offsite Sampling
RW-8048P	7/21/2023	ND U	3.9	2023 July Offsite Sampling
RW-8105PN	8/11/2017	ND U	ND U	Historical Data - Previous Consultant
RW-8105PN	6/18/2019	ND U	ND U	2019 June Offsite Residential
RW-8105PS	8/11/2017	ND U	ND U	Historical Data - Previous Consultant
RW-8105PS	6/18/2019	ND U	ND U	2019 June Offsite Residential
RW-8105PS	6/22/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-8105PS	6/24/2021	ND U	ND U	2021 June Offsite Sampling
RW-8105PS	6/14/2022	ND U	ND U	2022 June Offsite Sampling
RW-8105PS	7/20/2023	ND U	ND U	2023 July Offsite Sampling
RW-8167P	6/23/2019	ND U	ND U	2019 June Offsite Residential
RW-8209P	8/2/2017	ND U	ND U	Historical Data - Previous Consultant
RW-8209P	6/17/2019	ND U	ND U	2019 June Offsite Residential
RW-8209P	6/25/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-8209P	6/25/2021	ND U	ND U	2021 June Offsite Sampling
RW-8209P	6/19/2022	ND U	ND U	2022 June Offsite Sampling
RW-8249P	8/16/2017	ND U	ND U	Historical Data - Previous Consultant
RW-8249P	6/17/2019	ND U	ND U	2019 June Offsite Residential
RW-8249P	6/23/2020	ND U	ND U	2020 Spring Off-Site Sampling
RW-8249P	6/21/2021	ND U	ND U	2021 June Offsite Sampling
RW-8284P	6/23/2019	0.89 J	3.4	2019 June Offsite Residential
RW-8284P	6/23/2020	0.93 J	3.9	2020 Spring Off-Site Sampling
RW-8284P	6/25/2021	0.54 J	4.9	2021 June Offsite Sampling
RW-8284P	6/15/2022	ND U	0.84 J	2022 June Offsite Sampling
RW-8284P	7/20/2023	ND U	1.5	2023 July Offsite Sampling

Appendix D

Data Usability Assessment Report

Appendix D Data

Validation

This appendix presents the data validation results for the sampling event/samples collected during the offsite residential well sampling event in July 2023.

The analytical data for the samples listed **Table D-1** were validated according to requirements in the analytical methods; National Functional Guidelines (NFGs) for Superfund Organic Methods Data Review (United States Environmental Protection Agency [EPA] 2020).

TestAmerica Denver (TA-Denver) performed the volatile organic compounds (VOCs) by SW-846 method 8260D.

The samples were analyzed according to the following method:

- *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods (SW-846). Third Edition, Final Update III*
 - 8260D - VOCs by Gas Chromatography/Mass Spectrometry (GC/MS)

Level 2 and 4 data packages were provided as well as electronic data deliverables (EDDs). All data generated by Eurofins TestAmerica laboratories were validated electronically to the Stage 2A level.

Cross references of laboratory sample delivery groups (SDGs) and sample identifications (IDs) are provided in **Table D-1**. The complete laboratory data packages for each SDG are provided in **Appendix E**. All samples submitted were analyzed as requested. No data were rejected. All data generated are acceptable, with some qualification as noted in the discussion below.

Sampling Deviations

No sampling deviations occurred.

1.1 Offsite Residential Well Sampling July 2023

From July 20th to July 23rd, 2023, 23 primary samples, 2 field duplicates, 1 rinsate blanks, and 2 trip blanks were collected for analysis of VOCs. Data were qualified as estimated (J or UJ) based headspace in a volatiles vial and (UJ) based on a low laboratory control sample recovery.

Results reported above the method detection limit (MDL) but below the reporting limit (RL) were qualified as estimated (J) by the laboratory.

The laboratory noted that all vials received for samples RW-2151H-20230720, RW-7505P-20230720, and PA-3-20230722 had headspace. Volatile results for these three samples were qualified estimated (J/UJ).

1.1.1 Holding Times

Holding times for all analyses were met.

1.1.2 Blank Results

Trip, equipment, and laboratory method blanks were analyzed. Trip blanks were included with the VOC sample shipments and equipment blanks were submitted for equipment that was used at multiple locations and decontaminated between locations.

When an analyte was detected in a blank below the RL and that analyte was detected in a sample at a concentration less than the RL the result was qualified as not detected at the RL (U). When the sample concentration was above the RL, but less than five times the RL, the analyte result was qualified as estimated with a potential high bias (J+). When associated sample detections were greater than 5 times the RL, the data were not qualified.

No target analytes were detected in the method, equipment or trip blanks and no data were qualified for blank results.

1.1.3 Laboratory Reporting Limits

The reporting levels (method detection limits [MDLs]) achieved by the laboratories either met the project goals or were appropriate for the concentrations and/or matrices of the samples.

1.1.4 Field Duplicate Results

Two field duplicates were collected for the offsite and residential well groundwater sampling, which meets the planned frequency. Relative percent differences (RPDs) were calculated when analytes were detected in both the primary sample and its duplicate. The project specific and groundwater RPD control limits for field duplicates is 30% when an analyte is reported in both the primary sample and its field duplicate at concentrations equal to or greater than five times the RL. When either the sample or duplicate concentration is less than five times the RL, the absolute difference between the two concentrations should be less than the RL. The results of the field duplicate RPDs are included in **Table D-2** of this Appendix. All RPDs or absolute differences for the two field duplicates met the control limits.

1.1.5 Laboratory Control Sample (LCS) Results

All LCS/LCSD % recoveries and RPDs for the groundwater samples met the quality control (QC) limits except for the following:

- Recovery of trans-1,4-dichloro-2-butene was above the control limits for an LCS associated with samples in SDG 280-179475. This compound was not detected in associated samples and no data were qualified.
- Chlorodibromomethane and trans-1,4-Dichloro-2-butene were recovered above the control limits and had high RPDS in an LCS/LCSD associated with samples in SG 280-1794756. These analytes were not detected in the associated samples and no data were qualified
- Vinyl acetate was recovered below the control limits and had a high RPD in an LCS and LCS/LCSD associated with samples in SDG 280-179475. All associated sample results were ND and were qualified (U).

- Acetonitrile was recovered above the control limits and had a high RPD LCS and LCSD samples associated with samples in SDGs 280-179475 and 280-170478. This compound was not detected in the associated samples and no data were qualified.
- Acetonitrile and methyl methacrylonitrile were recovered above the control limits in LCSD associated with samples in SDG 280-179475. This compound not detected in associated samples and no data were qualified.
- Chloromethane and dichloromethane had high RPDs in an LCS/LCSD associated with samples in SDGs 280-179475 and 280-179478. These analytes were not detected in the associated samples and no results were qualified.

1.1.6 Matrix Spike Results

All MS/MSD % recoveries and RPDs met the quality control (QC) except for the following

- Sample RW-8048P-20230721: Dichlorodifluoromethane had a high RPD. This compound was not detected in the parent sample and no data were qualified.

1.1.7 Surrogate Recovery Results

All surrogate recoveries for the VOC analyses met the control limits for all groundwater analyses.

1.1.8 Completeness

Completeness was evaluated by comparing the number of completed analyses yielding valid data to requested analyses with a criterion of 90%. All analyses requested were successfully performed, yielding a completeness value of 100%.

1.1.9 Assessment of Data Usability

All the groundwater data are suitable for their intended use. No data were rejected, and no qualification of the data was necessary.

2.1 References

United States Environmental Protection Agency, Office of Solid Waste and Emergency Response. 2009. Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. January 13.

United States Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. 2020. *National Functional Guidelines for Superfund Inorganics Methods Data Review*. November.

United States Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. 2020. *National Functional Guidelines for Superfund Organics Methods Data Review*. November.

Table D-1
Sample ID, Laboratory SDG References

Analytical Method	SW846_8260D
Sample ID	LAB SDG
EB-03-20230722	280-179478-1
MW-116S-20230723	280-179478-1
PA-1-20230722	280-179478-1
PA-1-Q-20230722	280-179478-1
PA-3-20230722	280-179475-1
PA-4-100-110-20230722	280-179478-1
PA-8-77-87-20230723	280-179478-1
RW-2076F-20230721	280-179478-1
RW-2140H-20230723	280-179475-1
RW-2151H-20230720	280-179475-1
RW-2172F-20230718	280-179475-1
RW-2172H-20230721	280-179478-1
RW-2203H-20230719	280-179475-1
RW-2213F-20230721	280-179478-1
RW-2237H-20230720	280-179475-1
RW-2879M-20230720	280-179475-1
RW-7200P-20230720	280-179475-1
RW-7505P-20230720	280-179475-1
RW-7505P-Q-20230720	280-179475-1
RW-7549P-20230721	280-179478-1
RW-7677P-20230721	280-179478-1
RW-7773P-20230721	280-179478-1
RW-8012P-20230721	280-179478-1
RW-8030P-20230720	280-179475-1
RW-8048P-20230721	280-179478-1
RW-8105PS-20230720	280-179475-1
RW-8284P-20230720	280-179478-1
TB-01-20230723	280-179475-1
TB-02-20230723	280-179478-1

Notes:

-- = analysis not performed

ID = identifier

SDG = sample delivery group

Table D-2
Groundwater Field Duplicate Comparisons

Location ID Sample Type Sample Date			PA-1		PA-1					RW-7505P		RW-7505P				
			N		FD					N		FD				
			7/22/2023		7/22/2023					7/20/2023		7/20/2023				
Method	Chemical Name	Unit	Result	Q	Result	Q	RDL	5x RL	RPD or Absolute Difference	Result	Q	Result	Q	RDL	5x RL	RPD or Absolute Difference
SW846_8260D	1,1,1,2-Tetrachloroethane	ug/l	0.58	U	0.58	U	1	5	NC	0.58	UJ	0.58	U	1	5	NC
	1,1,1-TRICHLOROETHANE	ug/l	0.39	U	0.39	U	1	5	NC	0.39	UJ	0.39	U	1	5	NC
	1,1,2,2-TETRACHLOROETHANE	ug/l	0.21	U	0.21	U	1	5	NC	0.21	UJ	0.21	U	1	5	NC
	1,1,2-TRICHLOROETHANE	ug/l	0.27	U	0.27	U	1	5	NC	0.27	UJ	0.27	U	1	5	NC
	1,1-DICHLOROETHANE	ug/l	0.22	U	0.22	U	1	5	NC	0.22	UJ	0.22	U	1	5	NC
	1,1-DICHLOROETHENE	ug/l	0.23	U	0.23	U	1	5	NC	0.23	UJ	0.23	U	1	5	NC
	1,1-DICHLOROPROPENE	ug/l	0.42	U	0.42	U	1	5	NC	0.42	UJ	0.42	U	1	5	NC
	1,2,3-TRICHLOROPROPANE	ug/l	0.86	U	0.86	U	2.5	12.5	NC	0.86	UJ	0.86	U	2.5	12.5	NC
	1,2,4-TRICHLOROBENZENE	ug/l	0.58	U	0.58	U	1	5	NC	0.58	UJ	0.58	U	1	5	NC
	1,2-DIBROMO-3-CHLOROPROPANE	ug/l	1.8	U	1.8	U	5	25	NC	1.8	UJ	1.8	U	5	25	NC
	1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	ug/l	0.4	U	0.4	U	1	5	NC	0.4	UJ	0.4	U	1	5	NC
	1,2-DICHLOROBENZENE	ug/l	0.37	U	0.37	U	1	5	NC	0.37	UJ	0.37	U	1	5	NC
	1,2-DICHLOROETHANE	ug/l	0.54	U	0.54	U	1	5	NC	0.54	UJ	0.54	U	1	5	NC
	1,2-DICHLOROPROPANE	ug/l	0.52	U	0.52	U	1	5	NC	0.52	UJ	0.52	U	1	5	NC
	1,3-DICHLOROBENZENE	ug/l	0.33	U	0.33	U	1	5	NC	0.33	UJ	0.33	U	1	5	NC
	1,3-DICHLOROPROPANE	ug/l	0.38	U	0.38	U	1	5	NC	0.38	UJ	0.38	U	1	5	NC
	1,4-DICHLOROBENZENE	ug/l	0.39	U	0.39	U	1	5	NC	0.39	UJ	0.39	U	1	5	NC
	2,2-DICHLOROPROPANE	ug/l	0.38	U	0.38	U	1	5	NC	0.38	UJ	0.38	U	1	5	NC
	2-CHLORO-1,3-BUTADIENE	ug/l	1.2	U	1.2	U	3	15	NC	1.2	UJ	1.2	U	3	15	NC
	2-HEXANONE	ug/l	1.7	U	1.7	U	5	25	NC	1.7	UJ	1.7	U	5	25	NC
	ACETONE	ug/l	6.6	U	6.6	U	15	75	NC	6.6	UJ	6.6	U	15	75	NC
	ACETONITRILE	ug/l	9.6	U	9.6	U	30	150	NC	9.6	UJ	9.6	U	30	150	NC
	ACROLEIN	ug/l	4.9	U	4.9	U	20	100	NC	4.9	UJ	4.9	U	20	100	NC
	ACRYLONITRILE	ug/l	4.5	U	4.5	U	20	100	NC	4.5	UJ	4.5	U	20	100	NC
	ALLYL CHLORIDE (3-CHLOROPROPENE)	ug/l	0.17	U	0.17	U	2	10	NC	0.17	UJ	0.17	U	2	10	NC
	BENZENE	ug/l	0.31	U	0.31	U	1	5	NC	0.31	UJ	0.31	U	1	5	NC
	BROMOCHLOROMETHANE	ug/l	0.4	U	0.4	U	1	5	NC	0.4	UJ	0.4	U	1	5	NC
	BROMODICHLOROMETHANE	ug/l	0.39	U	0.39	U	1	5	NC	0.39	UJ	0.39	U	1	5	NC
	BROMOFORM	ug/l	1.2	U	1.2	U	2	10	NC	1.2	UJ	1.2	U	2	10	NC
	BROMOMETHANE	ug/l	2.4	U	2.4	U	5	25	NC	2.4	UJ	2.4	U	5	25	NC
	CARBON DISULFIDE	ug/l	0.63	U	0.63	U	2	10	NC	0.63	UJ	0.63	U	2	10	NC
	CARBON TETRACHLORIDE	ug/l	0.57	U	0.57	U	1	5	NC	0.57	UJ	0.57	U	1	5	NC
	CHLOROBENZENE	ug/l	0.42	U	0.42	U	1	5	NC	0.42	UJ	0.42	U	1	5	NC
	CHLOROETHANE	ug/l	1.4	U	1.4	U	4	20	NC	1.4	UJ	1.4	U	4	20	NC
	CHLOROFORM	ug/l	0.36	U	0.36	U	1	5	NC	0.36	UJ	0.36	U	1	5	NC
	CHLOROMETHANE	ug/l	0.75	U	0.75	U	2	10	NC	0.75	UJ	0.75	U	2	10	NC
	CIS-1,2-DICHLOROETHYLENE	ug/l	0.32	U	0.32	U	1	5	NC	0.32	UJ	0.32	U	1	5	NC
	CIS-1,3-DICHLOROPROPENE	ug/l	0.63	U	0.63	U	2	10	NC	0.63	UJ	0.63	U	2	10	NC
	DIBROMOCHLOROMETHANE	ug/l	0.62	U	0.62	U	2	10	NC	0.62	UJ	0.62	U	2	10	NC
	DIBROMOMETHANE	ug/l	0.34	U	0.34	U	1	5	NC	0.34	UJ	0.34	U	1	5	NC
	DICHLORODIFLUOROMETHANE	ug/l	0.96	U	0.96	U	3	15	NC	0.96	UJ	0.96	U	3	15	NC
	ETHYL METHACRYLATE	ug/l	0.86	U	0.86	U	3	15	NC	0.86	UJ	0.86	U	3	15	NC
	ETHYLBENZENE	ug/l	0.3	U	0.3	U	1	5	NC	0.3	UJ	0.3	U	1	5	NC
	IODOMETHANE (METHYL IODIDE)	ug/l	2.6	U	2.6	U	5	25	NC	2.6	UJ	2.6	U	5	25	NC

Location ID Sample Type Sample Date			PA-1		PA-1					RW-7505P		RW-7505P				
			N		FD					N		FD				
			7/22/2023		7/22/2023					7/20/2023		7/20/2023				
	ISOBUTANOL	ug/l	37	U	37	U	110	550	NC	37	UJ	37	U	110	550	NC
	m,p-Xylene	ug/l	0.36	U	0.36	U	2	10	NC	0.36	UJ	0.36	U	2	10	NC
	METHYL ETHYL KETONE (2-BUTANONE)	ug/l	6	U	6	U	15	75	NC	6	UJ	6	U	15	75	NC
	METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	ug/l	0.98	U	0.98	U	5	25	NC	0.98	UJ	0.98	U	5	25	NC
	METHYL METHACRYLATE	ug/l	1.1	U	1.1	U	4	20	NC	1.1	UJ	1.1	U	4	20	NC
	METHYLACRYLONITRILE	ug/l	5.3	U	5.3	U	15	75	NC	5.3	UJ	5.3	U	15	75	NC
	METHYLENE CHLORIDE	ug/l	0.94	U	0.94	U	2	10	NC	0.94	UJ	0.94	U	2	10	NC
	O-XYLENE (1,2-DIMETHYLBENZENE)	ug/l	0.33	U	0.33	U	1	5	NC	0.33	UJ	0.33	U	1	5	NC
	PROPANE NITRILE (PROPIONITRILE)	ug/l	3.7	U	3.7	U	20	100	NC	3.7	UJ	3.7	U	20	100	NC
	STYRENE	ug/l	0.36	U	0.36	U	1	5	NC	0.36	UJ	0.36	U	1	5	NC
	TETRACHLOROETHYLENE (PCE)	ug/l	0.4	U	0.4	U	1	5	NC	0.4	UJ	0.4	U	1	5	NC
	TOLUENE	ug/l	0.32	U	0.32	U	1	5	NC	0.32	UJ	0.32	U	1	5	NC
	TRANS-1,2-DICHLOROETHENE	ug/l	0.37	U	0.37	U	1	5	NC	0.37	UJ	0.37	U	1	5	NC
	TRANS-1,3-DICHLOROPROPENE	ug/l	0.65	U	0.65	U	2	10	NC	0.65	UJ	0.65	U	2	10	NC
	TRANS-1,4-DICHLORO-2-BUTENE	ug/l	1.4	U	1.4	U	3	15	NC	1.4	UJ	1.4	U	3	15	NC
	TRICHLOROETHYLENE (TCE)	ug/l	0.5	J	0.5	J	1	5	0	0.3	UJ	0.3	U	1	5	NC
	TRICHLOROFLUOROMETHANE	ug/l	0.57	U	0.57	U	2	10	NC	0.57	UJ	0.57	U	2	10	NC
	VINYL ACETATE	ug/l	0.94	U	0.94	U	3	15	NC	0.94	UJ	0.94	UJ	3	15	NC
	VINYL CHLORIDE	ug/l	0.51	U	0.51	U	2	10	NC	0.51	UJ	0.51	U	2	10	NC
	Xylenes	ug/l	0.33	U	0.33	U	1	5	NC	0.33	UJ	0.33	U	1	5	NC

Notes:
FD = field duplicate
N = normal field sample
NC = not calculated

Appendix E

Analytical Laboratory Data Packages



ANALYTICAL REPORT

PREPARED FOR

Attn: Mary Lou Fox
CDM Smith Inc
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Bellevue WA 98007-6493

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JOB DESCRIPTION

Bannock Ft. Hall Mine LF, Idaho

JOB NUMBER

280-179475-1

Eurofins Denver

Job Notes

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Definitions/Glossary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

CASE NARRATIVE

Client: CDM Smith Inc

Project: Bannock Ft. Hall Mine LF, Idaho

Report Number: 280-179475-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/25/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.5 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RW-2172F-20230718 (280-179475-1), RW-2203H-20230719 (280-179475-2), RW-8030P-20230720 (280-179475-3), RW-2879M-20230720 (280-179475-4), RW-2151H-20230720 (280-179475-5), RW-2237H-20230720 (280-179475-6), RW-7200P-20230720 (280-179475-7), RW-8105PS-20230720 (280-179475-8), RW-7505P-20230720 (280-179475-9), RW-7505P-Q-20230720 (280-179475-10), TB-01-20230723 (280-179475-11), RW-2140H-20230723 (280-179475-12) and PA-3-20230722 (280-179475-13) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 08/01/2023, 08/02/2023 and 08/03/2023.

The method requirement for no headspace was not met. The following volatile samples in batch 280-621621 were analyzed with significant headspace in the sample container: RW-2151H-20230720 (280-179475-5) and RW-7505P-20230720 (280-179475-9). Significant headspace is defined as a bubble greater than 6 mm in diameter.

The method requirement for no headspace was not met. The following volatile samples in batch 280-621775 were analyzed with significant headspace in the sample container: PA-3-20230722 (280-179475-13) and PA-3-20230722 (280-179475-13[MS]). Significant headspace is defined as a bubble greater than 6 mm in diameter.

trans-1,4-Dichloro-2-butene failed the recovery criteria high for LCS 280-621382/4. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Chlorodibromomethane and trans-1,4-Dichloro-2-butene failed the recovery criteria high for LCSD 280-621382/6. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Vinyl acetate failed the recovery criteria low for LCS 280-621621/4. This is not indicative of a systematic control problem because the recovery is within criteria of random marginal exceedances. Qualified results have been reported.

Vinyl acetate exceeded the RPD limit for LCSD 280-621621/6. The analyte recovered within control limits in the LCSD and recovered with marginal exceedance limits in the associated LCS. Qualified results have been reported.

Acetonitrile failed the recovery criteria high for LCS 280-621621/5. Acetonitrile failed the recovery criteria high for LCSD 280-621621/7. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Acetonitrile failed the recovery criteria high for LCS 280-621775/5. The analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Acetonitrile and Methacrylonitrile failed the recovery criteria high for LCSD 280-621775/7. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Chloromethane and Dichlorodifluoromethane exceeded the RPD limit for LCSD 280-621775/6. LCS and LCSD percent recoveries were

within control limits. Qualified results have been reported.

The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 280-621382: Isobutyl alcohol and Acrolein. These compounds are considered to be poor performers, and recovered within acceptance limits in the LCS and LCSD. Data has been reported.

The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 280-621382: Acetonitrile, Methacrylonitrile and Propionitrile. These compounds are considered poor performers, and recovered within acceptance limits in the LCS and LCSD. Data has been reported.

The continuing calibration verification (CCV) associated with batch 280-621382 recovered above the upper control limit for Dichlorobromomethane and trans-1,4-Dichloro-2-butene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: RW-2172F-20230718 (280-179475-1) and (CCV 280-621382/13).

The continuing calibration verification (CCV) associated with batch 280-621621 recovered above the upper control limit for Acetonitrile, 2-chloro-1,3-butadiene and methacrylonitrile. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The following compounds were outside control limits low in the continuing calibration verification (CCV) associated with batch 280-621621: bromomethane and vinyl acetate. These are considered poor performers and are either within control limits or are a marginal exceedance.

The following compounds were outside control limits low in the continuing calibration verification (CCV) associated with batch 280-621775: Bromomethane. This compound is considered a poor performer and the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recovered within limits for the compound, therefore, the data have been reported. The associated samples were non-detect for the affected analytes.

The continuing calibration verification (CCV) associated with batch 280-621775 recovered above the upper control limit for Chloroprene, Acetonitrile and Methacrylonitrile. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-2172F-20230718

Lab Sample ID: 280-179475-1

No Detections.

Client Sample ID: RW-2203H-20230719

Lab Sample ID: 280-179475-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.57	J	1.0	0.32	ug/L	1			8260D	Total/NA
Tetrachloroethene	1.3		1.0	0.40	ug/L	1			8260D	Total/NA
Trichloroethene	13		1.0	0.30	ug/L	1			8260D	Total/NA

Client Sample ID: RW-8030P-20230720

Lab Sample ID: 280-179475-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Trichloroethene	4.9		1.0	0.30	ug/L	1			8260D	Total/NA

Client Sample ID: RW-2879M-20230720

Lab Sample ID: 280-179475-4

No Detections.

Client Sample ID: RW-2151H-20230720

Lab Sample ID: 280-179475-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Tetrachloroethene	0.47	J	1.0	0.40	ug/L	1			8260D	Total/NA
Trichloroethene	6.0		1.0	0.30	ug/L	1			8260D	Total/NA

Client Sample ID: RW-2237H-20230720

Lab Sample ID: 280-179475-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5		1.0	0.32	ug/L	1			8260D	Total/NA
Tetrachloroethene	4.0		1.0	0.40	ug/L	1			8260D	Total/NA
Trichloroethene	25		1.0	0.30	ug/L	1			8260D	Total/NA

Client Sample ID: RW-7200P-20230720

Lab Sample ID: 280-179475-7

No Detections.

Client Sample ID: RW-8105PS-20230720

Lab Sample ID: 280-179475-8

No Detections.

Client Sample ID: RW-7505P-20230720

Lab Sample ID: 280-179475-9

No Detections.

Client Sample ID: RW-7505P-Q-20230720

Lab Sample ID: 280-179475-10

No Detections.

Client Sample ID: TB-01-20230723

Lab Sample ID: 280-179475-11

No Detections.

Client Sample ID: RW-2140H-20230723

Lab Sample ID: 280-179475-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0	0.32	ug/L	1			8260D	Total/NA
Tetrachloroethene	4.3		1.0	0.40	ug/L	1			8260D	Total/NA
Trichloroethene	24		1.0	0.30	ug/L	1			8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: PA-3-20230722

Lab Sample ID: 280-179475-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Trichloroethene	0.80	J	1.0	0.30	ug/L			1	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-2172F-20230718

Lab Sample ID: 280-179475-1

Date Collected: 07/18/23 17:03

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/01/23 17:26	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/01/23 17:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/01/23 17:26	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/01/23 17:26	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/01/23 17:26	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/01/23 17:26	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/01/23 17:26	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/01/23 17:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/01/23 17:26	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/01/23 17:26	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/01/23 17:26	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/01/23 17:26	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/01/23 17:26	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/01/23 17:26	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/01/23 17:26	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/01/23 17:26	1
2-Hexanone	ND		5.0	1.7	ug/L			08/01/23 17:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/01/23 17:26	1
Acetone	ND		15	6.6	ug/L			08/01/23 17:26	1
Benzene	ND		1.0	0.31	ug/L			08/01/23 17:26	1
Bromoform	ND		2.0	1.2	ug/L			08/01/23 17:26	1
Bromomethane	ND		5.0	2.4	ug/L			08/01/23 17:26	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/01/23 17:26	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/01/23 17:26	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/01/23 17:26	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/01/23 17:26	1
Chlorodibromomethane	ND	*+	2.0	0.62	ug/L			08/01/23 17:26	1
Chloroethane	ND		4.0	1.4	ug/L			08/01/23 17:26	1
Chloroform	ND		1.0	0.36	ug/L			08/01/23 17:26	1
Chloromethane	ND		2.0	0.75	ug/L			08/01/23 17:26	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/01/23 17:26	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/01/23 17:26	1
Dibromomethane	ND		1.0	0.34	ug/L			08/01/23 17:26	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/01/23 17:26	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/01/23 17:26	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/23 17:26	1
Iodomethane	ND		5.0	2.6	ug/L			08/01/23 17:26	1
Isobutyl alcohol	ND		110	37	ug/L			08/01/23 17:26	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/01/23 17:26	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/01/23 17:26	1
o-Xylene	ND		1.0	0.33	ug/L			08/01/23 17:26	1
Styrene	ND		1.0	0.36	ug/L			08/01/23 17:26	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/01/23 17:26	1
Toluene	ND		1.0	0.32	ug/L			08/01/23 17:26	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/01/23 17:26	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/01/23 17:26	1
Trichloroethene	ND		1.0	0.30	ug/L			08/01/23 17:26	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/01/23 17:26	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/01/23 17:26	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-2172F-20230718

Lab Sample ID: 280-179475-1

Date Collected: 07/18/23 17:03

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/01/23 17:26	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/01/23 17:26	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/01/23 17:26	1
Acrolein	ND		20	4.9	ug/L			08/01/23 17:26	1
Acrylonitrile	ND		20	4.5	ug/L			08/01/23 17:26	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/01/23 17:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/01/23 17:26	1
Allyl chloride	ND		2.0	0.17	ug/L			08/01/23 17:26	1
Chloroprene	ND		3.0	1.2	ug/L			08/01/23 17:26	1
Acetonitrile	ND		30	9.6	ug/L			08/01/23 17:26	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/01/23 17:26	1
Methacrylonitrile	ND		15	5.3	ug/L			08/01/23 17:26	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/01/23 17:26	1
Propionitrile	ND		20	3.7	ug/L			08/01/23 17:26	1
trans-1,4-Dichloro-2-butene	ND	++	3.0	1.4	ug/L			08/01/23 17:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 127		08/01/23 17:26	1
4-Bromofluorobenzene (Surr)	101		78 - 120		08/01/23 17:26	1
Toluene-d8 (Surr)	100		80 - 125		08/01/23 17:26	1
Dibromofluoromethane (Surr)	91		77 - 120		08/01/23 17:26	1

Client Sample ID: RW-2203H-20230719

Lab Sample ID: 280-179475-2

Date Collected: 07/19/23 17:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/02/23 20:51	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/02/23 20:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/23 20:51	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/02/23 20:51	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/02/23 20:51	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/02/23 20:51	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/02/23 20:51	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/02/23 20:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/02/23 20:51	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/02/23 20:51	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/02/23 20:51	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/02/23 20:51	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/02/23 20:51	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 20:51	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/02/23 20:51	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 20:51	1
2-Hexanone	ND		5.0	1.7	ug/L			08/02/23 20:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/02/23 20:51	1
Acetone	ND		15	6.6	ug/L			08/02/23 20:51	1
Benzene	ND		1.0	0.31	ug/L			08/02/23 20:51	1
Bromoform	ND		2.0	1.2	ug/L			08/02/23 20:51	1
Bromomethane	ND		5.0	2.4	ug/L			08/02/23 20:51	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-2203H-20230719

Lab Sample ID: 280-179475-2

Date Collected: 07/19/23 17:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/02/23 20:51	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/02/23 20:51	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/02/23 20:51	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/02/23 20:51	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/02/23 20:51	1
Chloroethane	ND		4.0	1.4	ug/L			08/02/23 20:51	1
Chloroform	ND		1.0	0.36	ug/L			08/02/23 20:51	1
Chloromethane	ND		2.0	0.75	ug/L			08/02/23 20:51	1
cis-1,2-Dichloroethene	0.57	J	1.0	0.32	ug/L			08/02/23 20:51	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/02/23 20:51	1
Dibromomethane	ND		1.0	0.34	ug/L			08/02/23 20:51	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/02/23 20:51	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/02/23 20:51	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/02/23 20:51	1
Iodomethane	ND		5.0	2.6	ug/L			08/02/23 20:51	1
Isobutyl alcohol	ND		110	37	ug/L			08/02/23 20:51	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/02/23 20:51	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/02/23 20:51	1
o-Xylene	ND		1.0	0.33	ug/L			08/02/23 20:51	1
Styrene	ND		1.0	0.36	ug/L			08/02/23 20:51	1
Tetrachloroethene	1.3		1.0	0.40	ug/L			08/02/23 20:51	1
Toluene	ND		1.0	0.32	ug/L			08/02/23 20:51	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/02/23 20:51	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/02/23 20:51	1
Trichloroethene	13		1.0	0.30	ug/L			08/02/23 20:51	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/02/23 20:51	1
Vinyl acetate	ND	*- *1	3.0	0.94	ug/L			08/02/23 20:51	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/02/23 20:51	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/02/23 20:51	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/02/23 20:51	1
Acrolein	ND		20	4.9	ug/L			08/02/23 20:51	1
Acrylonitrile	ND		20	4.5	ug/L			08/02/23 20:51	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/02/23 20:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/02/23 20:51	1
Allyl chloride	ND		2.0	0.17	ug/L			08/02/23 20:51	1
Chloroprene	ND		3.0	1.2	ug/L			08/02/23 20:51	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/02/23 20:51	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/02/23 20:51	1
Methacrylonitrile	ND		15	5.3	ug/L			08/02/23 20:51	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/02/23 20:51	1
Propionitrile	ND		20	3.7	ug/L			08/02/23 20:51	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/02/23 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 127					08/02/23 20:51	1
4-Bromofluorobenzene (Surr)	104		78 - 120					08/02/23 20:51	1
Toluene-d8 (Surr)	101		80 - 125					08/02/23 20:51	1
Dibromofluoromethane (Surr)	105		77 - 120					08/02/23 20:51	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-8030P-20230720

Lab Sample ID: 280-179475-3

Date Collected: 07/20/23 09:55

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/02/23 21:12	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/02/23 21:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/23 21:12	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/02/23 21:12	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/02/23 21:12	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/02/23 21:12	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/02/23 21:12	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/02/23 21:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/02/23 21:12	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/02/23 21:12	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/02/23 21:12	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/02/23 21:12	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/02/23 21:12	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 21:12	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/02/23 21:12	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 21:12	1
2-Hexanone	ND		5.0	1.7	ug/L			08/02/23 21:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/02/23 21:12	1
Acetone	ND		15	6.6	ug/L			08/02/23 21:12	1
Benzene	ND		1.0	0.31	ug/L			08/02/23 21:12	1
Bromoform	ND		2.0	1.2	ug/L			08/02/23 21:12	1
Bromomethane	ND		5.0	2.4	ug/L			08/02/23 21:12	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/02/23 21:12	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/02/23 21:12	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/02/23 21:12	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/02/23 21:12	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/02/23 21:12	1
Chloroethane	ND		4.0	1.4	ug/L			08/02/23 21:12	1
Chloroform	ND		1.0	0.36	ug/L			08/02/23 21:12	1
Chloromethane	ND		2.0	0.75	ug/L			08/02/23 21:12	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/02/23 21:12	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/02/23 21:12	1
Dibromomethane	ND		1.0	0.34	ug/L			08/02/23 21:12	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/02/23 21:12	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/02/23 21:12	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/02/23 21:12	1
Iodomethane	ND		5.0	2.6	ug/L			08/02/23 21:12	1
Isobutyl alcohol	ND		110	37	ug/L			08/02/23 21:12	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/02/23 21:12	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/02/23 21:12	1
o-Xylene	ND		1.0	0.33	ug/L			08/02/23 21:12	1
Styrene	ND		1.0	0.36	ug/L			08/02/23 21:12	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/02/23 21:12	1
Toluene	ND		1.0	0.32	ug/L			08/02/23 21:12	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/02/23 21:12	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/02/23 21:12	1
Trichloroethene	4.9		1.0	0.30	ug/L			08/02/23 21:12	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/02/23 21:12	1
Vinyl acetate	ND	*- *1	3.0	0.94	ug/L			08/02/23 21:12	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-8030P-20230720

Lab Sample ID: 280-179475-3

Date Collected: 07/20/23 09:55

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/02/23 21:12	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/02/23 21:12	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/02/23 21:12	1
Acrolein	ND		20	4.9	ug/L			08/02/23 21:12	1
Acrylonitrile	ND		20	4.5	ug/L			08/02/23 21:12	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/02/23 21:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/02/23 21:12	1
Allyl chloride	ND		2.0	0.17	ug/L			08/02/23 21:12	1
Chloroprene	ND		3.0	1.2	ug/L			08/02/23 21:12	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/02/23 21:12	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/02/23 21:12	1
Methacrylonitrile	ND		15	5.3	ug/L			08/02/23 21:12	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/02/23 21:12	1
Propionitrile	ND		20	3.7	ug/L			08/02/23 21:12	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/02/23 21:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 127		08/02/23 21:12	1
4-Bromofluorobenzene (Surr)	104		78 - 120		08/02/23 21:12	1
Toluene-d8 (Surr)	100		80 - 125		08/02/23 21:12	1
Dibromofluoromethane (Surr)	106		77 - 120		08/02/23 21:12	1

Client Sample ID: RW-2879M-20230720

Lab Sample ID: 280-179475-4

Date Collected: 07/20/23 11:40

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/02/23 21:32	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/02/23 21:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/23 21:32	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/02/23 21:32	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/02/23 21:32	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/02/23 21:32	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/02/23 21:32	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/02/23 21:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/02/23 21:32	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/02/23 21:32	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/02/23 21:32	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/02/23 21:32	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/02/23 21:32	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 21:32	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/02/23 21:32	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 21:32	1
2-Hexanone	ND		5.0	1.7	ug/L			08/02/23 21:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/02/23 21:32	1
Acetone	ND		15	6.6	ug/L			08/02/23 21:32	1
Benzene	ND		1.0	0.31	ug/L			08/02/23 21:32	1
Bromoform	ND		2.0	1.2	ug/L			08/02/23 21:32	1
Bromomethane	ND		5.0	2.4	ug/L			08/02/23 21:32	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-2879M-20230720

Lab Sample ID: 280-179475-4

Date Collected: 07/20/23 11:40

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/02/23 21:32	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/02/23 21:32	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/02/23 21:32	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/02/23 21:32	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/02/23 21:32	1
Chloroethane	ND		4.0	1.4	ug/L			08/02/23 21:32	1
Chloroform	ND		1.0	0.36	ug/L			08/02/23 21:32	1
Chloromethane	ND		2.0	0.75	ug/L			08/02/23 21:32	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/02/23 21:32	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/02/23 21:32	1
Dibromomethane	ND		1.0	0.34	ug/L			08/02/23 21:32	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/02/23 21:32	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/02/23 21:32	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/02/23 21:32	1
Iodomethane	ND		5.0	2.6	ug/L			08/02/23 21:32	1
Isobutyl alcohol	ND		110	37	ug/L			08/02/23 21:32	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/02/23 21:32	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/02/23 21:32	1
o-Xylene	ND		1.0	0.33	ug/L			08/02/23 21:32	1
Styrene	ND		1.0	0.36	ug/L			08/02/23 21:32	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/02/23 21:32	1
Toluene	ND		1.0	0.32	ug/L			08/02/23 21:32	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/02/23 21:32	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/02/23 21:32	1
Trichloroethene	ND		1.0	0.30	ug/L			08/02/23 21:32	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/02/23 21:32	1
Vinyl acetate	ND	*- *1	3.0	0.94	ug/L			08/02/23 21:32	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/02/23 21:32	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/02/23 21:32	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/02/23 21:32	1
Acrolein	ND		20	4.9	ug/L			08/02/23 21:32	1
Acrylonitrile	ND		20	4.5	ug/L			08/02/23 21:32	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/02/23 21:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/02/23 21:32	1
Allyl chloride	ND		2.0	0.17	ug/L			08/02/23 21:32	1
Chloroprene	ND		3.0	1.2	ug/L			08/02/23 21:32	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/02/23 21:32	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/02/23 21:32	1
Methacrylonitrile	ND		15	5.3	ug/L			08/02/23 21:32	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/02/23 21:32	1
Propionitrile	ND		20	3.7	ug/L			08/02/23 21:32	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/02/23 21:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 127					08/02/23 21:32	1
4-Bromofluorobenzene (Surr)	103		78 - 120					08/02/23 21:32	1
Toluene-d8 (Surr)	102		80 - 125					08/02/23 21:32	1
Dibromofluoromethane (Surr)	106		77 - 120					08/02/23 21:32	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-2151H-20230720

Lab Sample ID: 280-179475-5

Date Collected: 07/20/23 13:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/02/23 21:53	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/02/23 21:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/23 21:53	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/02/23 21:53	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/02/23 21:53	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/02/23 21:53	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/02/23 21:53	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/02/23 21:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/02/23 21:53	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/02/23 21:53	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/02/23 21:53	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/02/23 21:53	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/02/23 21:53	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 21:53	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/02/23 21:53	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 21:53	1
2-Hexanone	ND		5.0	1.7	ug/L			08/02/23 21:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/02/23 21:53	1
Acetone	ND		15	6.6	ug/L			08/02/23 21:53	1
Benzene	ND		1.0	0.31	ug/L			08/02/23 21:53	1
Bromoform	ND		2.0	1.2	ug/L			08/02/23 21:53	1
Bromomethane	ND		5.0	2.4	ug/L			08/02/23 21:53	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/02/23 21:53	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/02/23 21:53	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/02/23 21:53	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/02/23 21:53	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/02/23 21:53	1
Chloroethane	ND		4.0	1.4	ug/L			08/02/23 21:53	1
Chloroform	ND		1.0	0.36	ug/L			08/02/23 21:53	1
Chloromethane	ND		2.0	0.75	ug/L			08/02/23 21:53	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/02/23 21:53	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/02/23 21:53	1
Dibromomethane	ND		1.0	0.34	ug/L			08/02/23 21:53	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/02/23 21:53	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/02/23 21:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/02/23 21:53	1
Iodomethane	ND		5.0	2.6	ug/L			08/02/23 21:53	1
Isobutyl alcohol	ND		110	37	ug/L			08/02/23 21:53	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/02/23 21:53	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/02/23 21:53	1
o-Xylene	ND		1.0	0.33	ug/L			08/02/23 21:53	1
Styrene	ND		1.0	0.36	ug/L			08/02/23 21:53	1
Tetrachloroethene	0.47	J	1.0	0.40	ug/L			08/02/23 21:53	1
Toluene	ND		1.0	0.32	ug/L			08/02/23 21:53	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/02/23 21:53	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/02/23 21:53	1
Trichloroethene	6.0		1.0	0.30	ug/L			08/02/23 21:53	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/02/23 21:53	1
Vinyl acetate	ND	*- *1	3.0	0.94	ug/L			08/02/23 21:53	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-2151H-20230720

Lab Sample ID: 280-179475-5

Date Collected: 07/20/23 13:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/02/23 21:53	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/02/23 21:53	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/02/23 21:53	1
Acrolein	ND		20	4.9	ug/L			08/02/23 21:53	1
Acrylonitrile	ND		20	4.5	ug/L			08/02/23 21:53	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/02/23 21:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/02/23 21:53	1
Allyl chloride	ND		2.0	0.17	ug/L			08/02/23 21:53	1
Chloroprene	ND		3.0	1.2	ug/L			08/02/23 21:53	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/02/23 21:53	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/02/23 21:53	1
Methacrylonitrile	ND		15	5.3	ug/L			08/02/23 21:53	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/02/23 21:53	1
Propionitrile	ND		20	3.7	ug/L			08/02/23 21:53	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/02/23 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 127					08/02/23 21:53	1
4-Bromofluorobenzene (Surr)	103		78 - 120					08/02/23 21:53	1
Toluene-d8 (Surr)	101		80 - 125					08/02/23 21:53	1
Dibromofluoromethane (Surr)	105		77 - 120					08/02/23 21:53	1

Client Sample ID: RW-2237H-20230720

Lab Sample ID: 280-179475-6

Date Collected: 07/20/23 13:50

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/02/23 22:14	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/02/23 22:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/23 22:14	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/02/23 22:14	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/02/23 22:14	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/02/23 22:14	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/02/23 22:14	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/02/23 22:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/02/23 22:14	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/02/23 22:14	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/02/23 22:14	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/02/23 22:14	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/02/23 22:14	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 22:14	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/02/23 22:14	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 22:14	1
2-Hexanone	ND		5.0	1.7	ug/L			08/02/23 22:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/02/23 22:14	1
Acetone	ND		15	6.6	ug/L			08/02/23 22:14	1
Benzene	ND		1.0	0.31	ug/L			08/02/23 22:14	1
Bromoform	ND		2.0	1.2	ug/L			08/02/23 22:14	1
Bromomethane	ND		5.0	2.4	ug/L			08/02/23 22:14	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-2237H-20230720

Lab Sample ID: 280-179475-6

Date Collected: 07/20/23 13:50

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/02/23 22:14	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/02/23 22:14	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/02/23 22:14	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/02/23 22:14	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/02/23 22:14	1
Chloroethane	ND		4.0	1.4	ug/L			08/02/23 22:14	1
Chloroform	ND		1.0	0.36	ug/L			08/02/23 22:14	1
Chloromethane	ND		2.0	0.75	ug/L			08/02/23 22:14	1
cis-1,2-Dichloroethene	1.5		1.0	0.32	ug/L			08/02/23 22:14	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/02/23 22:14	1
Dibromomethane	ND		1.0	0.34	ug/L			08/02/23 22:14	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/02/23 22:14	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/02/23 22:14	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/02/23 22:14	1
Iodomethane	ND		5.0	2.6	ug/L			08/02/23 22:14	1
Isobutyl alcohol	ND		110	37	ug/L			08/02/23 22:14	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/02/23 22:14	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/02/23 22:14	1
o-Xylene	ND		1.0	0.33	ug/L			08/02/23 22:14	1
Styrene	ND		1.0	0.36	ug/L			08/02/23 22:14	1
Tetrachloroethene	4.0		1.0	0.40	ug/L			08/02/23 22:14	1
Toluene	ND		1.0	0.32	ug/L			08/02/23 22:14	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/02/23 22:14	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/02/23 22:14	1
Trichloroethene	25		1.0	0.30	ug/L			08/02/23 22:14	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/02/23 22:14	1
Vinyl acetate	ND	*- *1	3.0	0.94	ug/L			08/02/23 22:14	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/02/23 22:14	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/02/23 22:14	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/02/23 22:14	1
Acrolein	ND		20	4.9	ug/L			08/02/23 22:14	1
Acrylonitrile	ND		20	4.5	ug/L			08/02/23 22:14	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/02/23 22:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/02/23 22:14	1
Allyl chloride	ND		2.0	0.17	ug/L			08/02/23 22:14	1
Chloroprene	ND		3.0	1.2	ug/L			08/02/23 22:14	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/02/23 22:14	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/02/23 22:14	1
Methacrylonitrile	ND		15	5.3	ug/L			08/02/23 22:14	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/02/23 22:14	1
Propionitrile	ND		20	3.7	ug/L			08/02/23 22:14	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/02/23 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 127					08/02/23 22:14	1
4-Bromofluorobenzene (Surr)	103		78 - 120					08/02/23 22:14	1
Toluene-d8 (Surr)	103		80 - 125					08/02/23 22:14	1
Dibromofluoromethane (Surr)	104		77 - 120					08/02/23 22:14	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-7200P-20230720

Lab Sample ID: 280-179475-7

Date Collected: 07/20/23 15:30

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/02/23 22:35	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/02/23 22:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/23 22:35	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/02/23 22:35	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/02/23 22:35	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/02/23 22:35	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/02/23 22:35	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/02/23 22:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/02/23 22:35	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/02/23 22:35	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/02/23 22:35	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/02/23 22:35	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/02/23 22:35	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 22:35	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/02/23 22:35	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 22:35	1
2-Hexanone	ND		5.0	1.7	ug/L			08/02/23 22:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/02/23 22:35	1
Acetone	ND		15	6.6	ug/L			08/02/23 22:35	1
Benzene	ND		1.0	0.31	ug/L			08/02/23 22:35	1
Bromoform	ND		2.0	1.2	ug/L			08/02/23 22:35	1
Bromomethane	ND		5.0	2.4	ug/L			08/02/23 22:35	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/02/23 22:35	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/02/23 22:35	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/02/23 22:35	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/02/23 22:35	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/02/23 22:35	1
Chloroethane	ND		4.0	1.4	ug/L			08/02/23 22:35	1
Chloroform	ND		1.0	0.36	ug/L			08/02/23 22:35	1
Chloromethane	ND		2.0	0.75	ug/L			08/02/23 22:35	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/02/23 22:35	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/02/23 22:35	1
Dibromomethane	ND		1.0	0.34	ug/L			08/02/23 22:35	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/02/23 22:35	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/02/23 22:35	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/02/23 22:35	1
Iodomethane	ND		5.0	2.6	ug/L			08/02/23 22:35	1
Isobutyl alcohol	ND		110	37	ug/L			08/02/23 22:35	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/02/23 22:35	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/02/23 22:35	1
o-Xylene	ND		1.0	0.33	ug/L			08/02/23 22:35	1
Styrene	ND		1.0	0.36	ug/L			08/02/23 22:35	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/02/23 22:35	1
Toluene	ND		1.0	0.32	ug/L			08/02/23 22:35	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/02/23 22:35	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/02/23 22:35	1
Trichloroethene	ND		1.0	0.30	ug/L			08/02/23 22:35	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/02/23 22:35	1
Vinyl acetate	ND	*- *1	3.0	0.94	ug/L			08/02/23 22:35	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-7200P-20230720

Lab Sample ID: 280-179475-7

Date Collected: 07/20/23 15:30

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/02/23 22:35	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/02/23 22:35	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/02/23 22:35	1
Acrolein	ND		20	4.9	ug/L			08/02/23 22:35	1
Acrylonitrile	ND		20	4.5	ug/L			08/02/23 22:35	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/02/23 22:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/02/23 22:35	1
Allyl chloride	ND		2.0	0.17	ug/L			08/02/23 22:35	1
Chloroprene	ND		3.0	1.2	ug/L			08/02/23 22:35	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/02/23 22:35	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/02/23 22:35	1
Methacrylonitrile	ND		15	5.3	ug/L			08/02/23 22:35	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/02/23 22:35	1
Propionitrile	ND		20	3.7	ug/L			08/02/23 22:35	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/02/23 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 127		08/02/23 22:35	1
4-Bromofluorobenzene (Surr)	103		78 - 120		08/02/23 22:35	1
Toluene-d8 (Surr)	103		80 - 125		08/02/23 22:35	1
Dibromofluoromethane (Surr)	103		77 - 120		08/02/23 22:35	1

Client Sample ID: RW-8105PS-20230720

Lab Sample ID: 280-179475-8

Date Collected: 07/20/23 15:20

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/02/23 22:56	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/02/23 22:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/23 22:56	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/02/23 22:56	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/02/23 22:56	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/02/23 22:56	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/02/23 22:56	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/02/23 22:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/02/23 22:56	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/02/23 22:56	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/02/23 22:56	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/02/23 22:56	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/02/23 22:56	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 22:56	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/02/23 22:56	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 22:56	1
2-Hexanone	ND		5.0	1.7	ug/L			08/02/23 22:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/02/23 22:56	1
Acetone	ND		15	6.6	ug/L			08/02/23 22:56	1
Benzene	ND		1.0	0.31	ug/L			08/02/23 22:56	1
Bromoform	ND		2.0	1.2	ug/L			08/02/23 22:56	1
Bromomethane	ND		5.0	2.4	ug/L			08/02/23 22:56	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-8105PS-20230720

Lab Sample ID: 280-179475-8

Date Collected: 07/20/23 15:20

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/02/23 22:56	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/02/23 22:56	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/02/23 22:56	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/02/23 22:56	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/02/23 22:56	1
Chloroethane	ND		4.0	1.4	ug/L			08/02/23 22:56	1
Chloroform	ND		1.0	0.36	ug/L			08/02/23 22:56	1
Chloromethane	ND		2.0	0.75	ug/L			08/02/23 22:56	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/02/23 22:56	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/02/23 22:56	1
Dibromomethane	ND		1.0	0.34	ug/L			08/02/23 22:56	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/02/23 22:56	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/02/23 22:56	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/02/23 22:56	1
Iodomethane	ND		5.0	2.6	ug/L			08/02/23 22:56	1
Isobutyl alcohol	ND		110	37	ug/L			08/02/23 22:56	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/02/23 22:56	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/02/23 22:56	1
o-Xylene	ND		1.0	0.33	ug/L			08/02/23 22:56	1
Styrene	ND		1.0	0.36	ug/L			08/02/23 22:56	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/02/23 22:56	1
Toluene	ND		1.0	0.32	ug/L			08/02/23 22:56	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/02/23 22:56	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/02/23 22:56	1
Trichloroethene	ND		1.0	0.30	ug/L			08/02/23 22:56	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/02/23 22:56	1
Vinyl acetate	ND	*- *1	3.0	0.94	ug/L			08/02/23 22:56	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/02/23 22:56	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/02/23 22:56	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/02/23 22:56	1
Acrolein	ND		20	4.9	ug/L			08/02/23 22:56	1
Acrylonitrile	ND		20	4.5	ug/L			08/02/23 22:56	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/02/23 22:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/02/23 22:56	1
Allyl chloride	ND		2.0	0.17	ug/L			08/02/23 22:56	1
Chloroprene	ND		3.0	1.2	ug/L			08/02/23 22:56	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/02/23 22:56	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/02/23 22:56	1
Methacrylonitrile	ND		15	5.3	ug/L			08/02/23 22:56	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/02/23 22:56	1
Propionitrile	ND		20	3.7	ug/L			08/02/23 22:56	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/02/23 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 127					08/02/23 22:56	1
4-Bromofluorobenzene (Surr)	102		78 - 120					08/02/23 22:56	1
Toluene-d8 (Surr)	101		80 - 125					08/02/23 22:56	1
Dibromofluoromethane (Surr)	106		77 - 120					08/02/23 22:56	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-7505P-20230720

Lab Sample ID: 280-179475-9

Date Collected: 07/20/23 16:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/02/23 23:17	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/02/23 23:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/23 23:17	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/02/23 23:17	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/02/23 23:17	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/02/23 23:17	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/02/23 23:17	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/02/23 23:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/02/23 23:17	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/02/23 23:17	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/02/23 23:17	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/02/23 23:17	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/02/23 23:17	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 23:17	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/02/23 23:17	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 23:17	1
2-Hexanone	ND		5.0	1.7	ug/L			08/02/23 23:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/02/23 23:17	1
Acetone	ND		15	6.6	ug/L			08/02/23 23:17	1
Benzene	ND		1.0	0.31	ug/L			08/02/23 23:17	1
Bromoform	ND		2.0	1.2	ug/L			08/02/23 23:17	1
Bromomethane	ND		5.0	2.4	ug/L			08/02/23 23:17	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/02/23 23:17	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/02/23 23:17	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/02/23 23:17	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/02/23 23:17	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/02/23 23:17	1
Chloroethane	ND		4.0	1.4	ug/L			08/02/23 23:17	1
Chloroform	ND		1.0	0.36	ug/L			08/02/23 23:17	1
Chloromethane	ND		2.0	0.75	ug/L			08/02/23 23:17	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/02/23 23:17	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/02/23 23:17	1
Dibromomethane	ND		1.0	0.34	ug/L			08/02/23 23:17	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/02/23 23:17	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/02/23 23:17	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/02/23 23:17	1
Iodomethane	ND		5.0	2.6	ug/L			08/02/23 23:17	1
Isobutyl alcohol	ND		110	37	ug/L			08/02/23 23:17	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/02/23 23:17	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/02/23 23:17	1
o-Xylene	ND		1.0	0.33	ug/L			08/02/23 23:17	1
Styrene	ND		1.0	0.36	ug/L			08/02/23 23:17	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/02/23 23:17	1
Toluene	ND		1.0	0.32	ug/L			08/02/23 23:17	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/02/23 23:17	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/02/23 23:17	1
Trichloroethene	ND		1.0	0.30	ug/L			08/02/23 23:17	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/02/23 23:17	1
Vinyl acetate	ND	*- *1	3.0	0.94	ug/L			08/02/23 23:17	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-7505P-20230720

Lab Sample ID: 280-179475-9

Date Collected: 07/20/23 16:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/02/23 23:17	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/02/23 23:17	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/02/23 23:17	1
Acrolein	ND		20	4.9	ug/L			08/02/23 23:17	1
Acrylonitrile	ND		20	4.5	ug/L			08/02/23 23:17	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/02/23 23:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/02/23 23:17	1
Allyl chloride	ND		2.0	0.17	ug/L			08/02/23 23:17	1
Chloroprene	ND		3.0	1.2	ug/L			08/02/23 23:17	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/02/23 23:17	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/02/23 23:17	1
Methacrylonitrile	ND		15	5.3	ug/L			08/02/23 23:17	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/02/23 23:17	1
Propionitrile	ND		20	3.7	ug/L			08/02/23 23:17	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/02/23 23:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 127		08/02/23 23:17	1
4-Bromofluorobenzene (Surr)	102		78 - 120		08/02/23 23:17	1
Toluene-d8 (Surr)	102		80 - 125		08/02/23 23:17	1
Dibromofluoromethane (Surr)	106		77 - 120		08/02/23 23:17	1

Client Sample ID: RW-7505P-Q-20230720

Lab Sample ID: 280-179475-10

Date Collected: 07/20/23 16:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/02/23 23:37	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/02/23 23:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/23 23:37	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/02/23 23:37	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/02/23 23:37	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/02/23 23:37	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/02/23 23:37	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/02/23 23:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/02/23 23:37	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/02/23 23:37	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/02/23 23:37	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/02/23 23:37	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/02/23 23:37	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 23:37	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/02/23 23:37	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 23:37	1
2-Hexanone	ND		5.0	1.7	ug/L			08/02/23 23:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/02/23 23:37	1
Acetone	ND		15	6.6	ug/L			08/02/23 23:37	1
Benzene	ND		1.0	0.31	ug/L			08/02/23 23:37	1
Bromoform	ND		2.0	1.2	ug/L			08/02/23 23:37	1
Bromomethane	ND		5.0	2.4	ug/L			08/02/23 23:37	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-7505P-Q-20230720

Lab Sample ID: 280-179475-10

Date Collected: 07/20/23 16:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/02/23 23:37	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/02/23 23:37	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/02/23 23:37	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/02/23 23:37	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/02/23 23:37	1
Chloroethane	ND		4.0	1.4	ug/L			08/02/23 23:37	1
Chloroform	ND		1.0	0.36	ug/L			08/02/23 23:37	1
Chloromethane	ND		2.0	0.75	ug/L			08/02/23 23:37	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/02/23 23:37	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/02/23 23:37	1
Dibromomethane	ND		1.0	0.34	ug/L			08/02/23 23:37	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/02/23 23:37	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/02/23 23:37	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/02/23 23:37	1
Iodomethane	ND		5.0	2.6	ug/L			08/02/23 23:37	1
Isobutyl alcohol	ND		110	37	ug/L			08/02/23 23:37	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/02/23 23:37	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/02/23 23:37	1
o-Xylene	ND		1.0	0.33	ug/L			08/02/23 23:37	1
Styrene	ND		1.0	0.36	ug/L			08/02/23 23:37	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/02/23 23:37	1
Toluene	ND		1.0	0.32	ug/L			08/02/23 23:37	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/02/23 23:37	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/02/23 23:37	1
Trichloroethene	ND		1.0	0.30	ug/L			08/02/23 23:37	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/02/23 23:37	1
Vinyl acetate	ND	*- *1	3.0	0.94	ug/L			08/02/23 23:37	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/02/23 23:37	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/02/23 23:37	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/02/23 23:37	1
Acrolein	ND		20	4.9	ug/L			08/02/23 23:37	1
Acrylonitrile	ND		20	4.5	ug/L			08/02/23 23:37	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/02/23 23:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/02/23 23:37	1
Allyl chloride	ND		2.0	0.17	ug/L			08/02/23 23:37	1
Chloroprene	ND		3.0	1.2	ug/L			08/02/23 23:37	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/02/23 23:37	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/02/23 23:37	1
Methacrylonitrile	ND		15	5.3	ug/L			08/02/23 23:37	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/02/23 23:37	1
Propionitrile	ND		20	3.7	ug/L			08/02/23 23:37	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/02/23 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 127					08/02/23 23:37	1
4-Bromofluorobenzene (Surr)	102		78 - 120					08/02/23 23:37	1
Toluene-d8 (Surr)	105		80 - 125					08/02/23 23:37	1
Dibromofluoromethane (Surr)	107		77 - 120					08/02/23 23:37	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: TB-01-20230723

Lab Sample ID: 280-179475-11

Date Collected: 07/23/23 21:30

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 18:46	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 18:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 18:46	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 18:46	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 18:46	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 18:46	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 18:46	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 18:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 18:46	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 18:46	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 18:46	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 18:46	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 18:46	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 18:46	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 18:46	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 18:46	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 18:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 18:46	1
Acetone	ND		15	6.6	ug/L			08/03/23 18:46	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 18:46	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 18:46	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 18:46	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 18:46	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 18:46	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 18:46	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 18:46	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 18:46	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 18:46	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 18:46	1
Chloromethane	ND	*1	2.0	0.75	ug/L			08/03/23 18:46	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 18:46	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 18:46	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 18:46	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 18:46	1
Dichlorodifluoromethane	ND	*1	3.0	0.96	ug/L			08/03/23 18:46	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 18:46	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 18:46	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 18:46	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 18:46	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 18:46	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 18:46	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 18:46	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 18:46	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 18:46	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 18:46	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 18:46	1
Trichloroethene	ND		1.0	0.30	ug/L			08/03/23 18:46	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 18:46	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 18:46	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: TB-01-20230723

Lab Sample ID: 280-179475-11

Date Collected: 07/23/23 21:30

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 18:46	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 18:46	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 18:46	1
Acrolein	ND		20	4.9	ug/L			08/03/23 18:46	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 18:46	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 18:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 18:46	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 18:46	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 18:46	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 18:46	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 18:46	1
Methacrylonitrile	ND	*+	15	5.3	ug/L			08/03/23 18:46	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 18:46	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 18:46	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 127		08/03/23 18:46	1
4-Bromofluorobenzene (Surr)	105		78 - 120		08/03/23 18:46	1
Toluene-d8 (Surr)	99		80 - 125		08/03/23 18:46	1
Dibromofluoromethane (Surr)	102		77 - 120		08/03/23 18:46	1

Client Sample ID: RW-2140H-20230723

Lab Sample ID: 280-179475-12

Date Collected: 07/23/23 14:30

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 20:14	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 20:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 20:14	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 20:14	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 20:14	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 20:14	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 20:14	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 20:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 20:14	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 20:14	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 20:14	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 20:14	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 20:14	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 20:14	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 20:14	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 20:14	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 20:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 20:14	1
Acetone	ND		15	6.6	ug/L			08/03/23 20:14	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 20:14	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 20:14	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 20:14	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-2140H-20230723

Lab Sample ID: 280-179475-12

Date Collected: 07/23/23 14:30

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 20:14	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 20:14	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 20:14	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 20:14	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 20:14	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 20:14	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 20:14	1
Chloromethane	ND	*1	2.0	0.75	ug/L			08/03/23 20:14	1
cis-1,2-Dichloroethene	1.4		1.0	0.32	ug/L			08/03/23 20:14	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 20:14	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 20:14	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 20:14	1
Dichlorodifluoromethane	ND	*1	3.0	0.96	ug/L			08/03/23 20:14	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 20:14	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 20:14	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 20:14	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 20:14	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 20:14	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 20:14	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 20:14	1
Tetrachloroethene	4.3		1.0	0.40	ug/L			08/03/23 20:14	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 20:14	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 20:14	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 20:14	1
Trichloroethene	24		1.0	0.30	ug/L			08/03/23 20:14	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 20:14	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 20:14	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 20:14	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 20:14	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 20:14	1
Acrolein	ND		20	4.9	ug/L			08/03/23 20:14	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 20:14	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 20:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 20:14	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 20:14	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 20:14	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 20:14	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 20:14	1
Methacrylonitrile	ND	*+	15	5.3	ug/L			08/03/23 20:14	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 20:14	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 20:14	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 127					08/03/23 20:14	1
4-Bromofluorobenzene (Surr)	105		78 - 120					08/03/23 20:14	1
Toluene-d8 (Surr)	100		80 - 125					08/03/23 20:14	1
Dibromofluoromethane (Surr)	103		77 - 120					08/03/23 20:14	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: PA-3-20230722

Lab Sample ID: 280-179475-13

Date Collected: 07/22/23 12:15

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 20:35	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 20:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 20:35	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 20:35	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 20:35	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 20:35	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 20:35	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 20:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 20:35	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 20:35	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 20:35	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 20:35	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 20:35	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 20:35	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 20:35	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 20:35	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 20:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 20:35	1
Acetone	ND		15	6.6	ug/L			08/03/23 20:35	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 20:35	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 20:35	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 20:35	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 20:35	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 20:35	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 20:35	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 20:35	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 20:35	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 20:35	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 20:35	1
Chloromethane	ND	*1	2.0	0.75	ug/L			08/03/23 20:35	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 20:35	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 20:35	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 20:35	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 20:35	1
Dichlorodifluoromethane	ND	*1	3.0	0.96	ug/L			08/03/23 20:35	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 20:35	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 20:35	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 20:35	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 20:35	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 20:35	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 20:35	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 20:35	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 20:35	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 20:35	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 20:35	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 20:35	1
Trichloroethene	0.80	J	1.0	0.30	ug/L			08/03/23 20:35	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 20:35	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 20:35	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: PA-3-20230722

Lab Sample ID: 280-179475-13

Date Collected: 07/22/23 12:15

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 20:35	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 20:35	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 20:35	1
Acrolein	ND		20	4.9	ug/L			08/03/23 20:35	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 20:35	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 20:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 20:35	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 20:35	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 20:35	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 20:35	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 20:35	1
Methacrylonitrile	ND	*+	15	5.3	ug/L			08/03/23 20:35	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 20:35	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 20:35	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 127					08/03/23 20:35	1
4-Bromofluorobenzene (Surr)	103		78 - 120					08/03/23 20:35	1
Toluene-d8 (Surr)	101		80 - 125					08/03/23 20:35	1
Dibromofluoromethane (Surr)	103		77 - 120					08/03/23 20:35	1

Default Detection Limits

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.58	ug/L
1,1,1-Trichloroethane	1.0	0.39	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.21	ug/L
1,1,2-Trichloroethane	1.0	0.27	ug/L
1,1-Dichloroethane	1.0	0.22	ug/L
1,1-Dichloroethene	1.0	0.23	ug/L
1,1-Dichloropropene	1.0	0.42	ug/L
1,2,3-Trichloropropane	2.5	0.86	ug/L
1,2,4-Trichlorobenzene	1.0	0.58	ug/L
1,2-Dibromo-3-Chloropropane	5.0	1.8	ug/L
1,2-Dibromoethane	1.0	0.40	ug/L
1,2-Dichlorobenzene	1.0	0.37	ug/L
1,2-Dichloroethane	1.0	0.54	ug/L
1,2-Dichloropropane	1.0	0.52	ug/L
1,3-Dichlorobenzene	1.0	0.33	ug/L
1,3-Dichloropropane	1.0	0.38	ug/L
1,4-Dichlorobenzene	1.0	0.39	ug/L
2,2-Dichloropropane	1.0	0.38	ug/L
2-Butanone (MEK)	15	6.0	ug/L
2-Hexanone	5.0	1.7	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	0.98	ug/L
Acetone	15	6.6	ug/L
Acetonitrile	30	9.6	ug/L
Acrolein	20	4.9	ug/L
Acrylonitrile	20	4.5	ug/L
Allyl chloride	2.0	0.17	ug/L
Benzene	1.0	0.31	ug/L
Bromoform	2.0	1.2	ug/L
Bromomethane	5.0	2.4	ug/L
Carbon disulfide	2.0	0.63	ug/L
Carbon tetrachloride	1.0	0.57	ug/L
Chlorobenzene	1.0	0.42	ug/L
Chlorobromomethane	1.0	0.40	ug/L
Chlorodibromomethane	2.0	0.62	ug/L
Chloroethane	4.0	1.4	ug/L
Chloroform	1.0	0.36	ug/L
Chloromethane	2.0	0.75	ug/L
Chloroprene	3.0	1.2	ug/L
cis-1,2-Dichloroethene	1.0	0.32	ug/L
cis-1,3-Dichloropropene	2.0	0.63	ug/L
Dibromomethane	1.0	0.34	ug/L
Dichlorobromomethane	1.0	0.39	ug/L
Dichlorodifluoromethane	3.0	0.96	ug/L
Ethyl methacrylate	3.0	0.86	ug/L
Ethylbenzene	1.0	0.30	ug/L
Iodomethane	5.0	2.6	ug/L
Isobutyl alcohol	110	37	ug/L
Methacrylonitrile	15	5.3	ug/L
Methyl methacrylate	4.0	1.1	ug/L
Methylene Chloride	2.0	0.94	ug/L
m-Xylene & p-Xylene	2.0	0.36	ug/L
o-Xylene	1.0	0.33	ug/L
Propionitrile	20	3.7	ug/L

Default Detection Limits

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	RL	MDL	Units
Styrene	1.0	0.36	ug/L
Tetrachloroethene	1.0	0.40	ug/L
Toluene	1.0	0.32	ug/L
trans-1,2-Dichloroethene	1.0	0.37	ug/L
trans-1,3-Dichloropropene	2.0	0.65	ug/L
trans-1,4-Dichloro-2-butene	3.0	1.4	ug/L
Trichloroethene	1.0	0.30	ug/L
Trichlorofluoromethane	2.0	0.57	ug/L
Vinyl acetate	3.0	0.94	ug/L
Vinyl chloride	2.0	0.51	ug/L
Xylenes, Total	1.0	0.33	ug/L

Surrogate Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-127)	BFB (78-120)	TOL (80-125)	DBFM (77-120)
280-179475-1	RW-2172F-20230718	91	101	100	91
280-179475-2	RW-2203H-20230719	113	104	101	105
280-179475-3	RW-8030P-20230720	114	104	100	106
280-179475-4	RW-2879M-20230720	110	103	102	106
280-179475-5	RW-2151H-20230720	111	103	101	105
280-179475-6	RW-2237H-20230720	112	103	103	104
280-179475-7	RW-7200P-20230720	110	103	103	103
280-179475-8	RW-8105PS-20230720	110	102	101	106
280-179475-9	RW-7505P-20230720	111	102	102	106
280-179475-10	RW-7505P-Q-20230720	110	102	105	107
280-179475-11	TB-01-20230723	109	105	99	102
280-179475-12	RW-2140H-20230723	109	105	100	103
280-179475-13	PA-3-20230722	109	103	101	103
280-179475-13 MS	PA-3-20230722	105	103	99	100
280-179475-13 MSD	PA-3-20230722	107	102	101	101
LCS 280-621382/4	Lab Control Sample	93	101	100	93
LCS 280-621382/5	Lab Control Sample	92	101	100	95
LCS 280-621621/4	Lab Control Sample	106	101	100	99
LCS 280-621621/5	Lab Control Sample	107	107	100	103
LCS 280-621775/4	Lab Control Sample	106	103	102	101
LCS 280-621775/5	Lab Control Sample	105	107	101	102
LCSD 280-621382/6	Lab Control Sample Dup	91	103	100	94
LCSD 280-621382/7	Lab Control Sample Dup	90	103	99	93
LCSD 280-621621/6	Lab Control Sample Dup	107	102	98	101
LCSD 280-621621/7	Lab Control Sample Dup	109	107	100	102
LCSD 280-621775/6	Lab Control Sample Dup	106	103	100	100
LCSD 280-621775/7	Lab Control Sample Dup	106	108	100	100
MB 280-621382/9	Method Blank	93	98	96	92
MB 280-621621/9	Method Blank	113	103	102	104
MB 280-621775/9	Method Blank	105	104	102	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-621382/9

Matrix: Water

Analysis Batch: 621382

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/01/23 11:48	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/01/23 11:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/01/23 11:48	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/01/23 11:48	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/01/23 11:48	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/01/23 11:48	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/01/23 11:48	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/01/23 11:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/01/23 11:48	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/01/23 11:48	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/01/23 11:48	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/01/23 11:48	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/01/23 11:48	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/01/23 11:48	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/01/23 11:48	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/01/23 11:48	1
2-Hexanone	ND		5.0	1.7	ug/L			08/01/23 11:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/01/23 11:48	1
Acetone	ND		15	6.6	ug/L			08/01/23 11:48	1
Benzene	ND		1.0	0.31	ug/L			08/01/23 11:48	1
Bromoform	ND		2.0	1.2	ug/L			08/01/23 11:48	1
Bromomethane	ND		5.0	2.4	ug/L			08/01/23 11:48	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/01/23 11:48	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/01/23 11:48	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/01/23 11:48	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/01/23 11:48	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/01/23 11:48	1
Chloroethane	ND		4.0	1.4	ug/L			08/01/23 11:48	1
Chloroform	ND		1.0	0.36	ug/L			08/01/23 11:48	1
Chloromethane	ND		2.0	0.75	ug/L			08/01/23 11:48	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/01/23 11:48	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/01/23 11:48	1
Dibromomethane	ND		1.0	0.34	ug/L			08/01/23 11:48	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/01/23 11:48	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/01/23 11:48	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/23 11:48	1
Iodomethane	ND		5.0	2.6	ug/L			08/01/23 11:48	1
Isobutyl alcohol	ND		110	37	ug/L			08/01/23 11:48	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/01/23 11:48	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/01/23 11:48	1
o-Xylene	ND		1.0	0.33	ug/L			08/01/23 11:48	1
Styrene	ND		1.0	0.36	ug/L			08/01/23 11:48	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/01/23 11:48	1
Toluene	ND		1.0	0.32	ug/L			08/01/23 11:48	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/01/23 11:48	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/01/23 11:48	1
Trichloroethene	ND		1.0	0.30	ug/L			08/01/23 11:48	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/01/23 11:48	1

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 280-621382/9

Matrix: Water

Analysis Batch: 621382

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		3.0	0.94	ug/L			08/01/23 11:48	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/01/23 11:48	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/01/23 11:48	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/01/23 11:48	1
Acrolein	ND		20	4.9	ug/L			08/01/23 11:48	1
Acrylonitrile	ND		20	4.5	ug/L			08/01/23 11:48	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/01/23 11:48	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/01/23 11:48	1
Allyl chloride	ND		2.0	0.17	ug/L			08/01/23 11:48	1
Chloroprene	ND		3.0	1.2	ug/L			08/01/23 11:48	1
Acetonitrile	ND		30	9.6	ug/L			08/01/23 11:48	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/01/23 11:48	1
Methacrylonitrile	ND		15	5.3	ug/L			08/01/23 11:48	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/01/23 11:48	1
Propionitrile	ND		20	3.7	ug/L			08/01/23 11:48	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/01/23 11:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 127		08/01/23 11:48	1
4-Bromofluorobenzene (Surr)	98		78 - 120		08/01/23 11:48	1
Toluene-d8 (Surr)	96		80 - 125		08/01/23 11:48	1
Dibromofluoromethane (Surr)	92		77 - 120		08/01/23 11:48	1

Lab Sample ID: LCS 280-621382/4

Matrix: Water

Analysis Batch: 621382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	59.5		ug/L		119	74 - 121
1,1,1-Trichloroethane	50.0	53.9		ug/L		108	62 - 132
1,1,2,2-Tetrachloroethane	50.0	52.9		ug/L		106	72 - 122
1,1,2-Trichloroethane	50.0	51.1		ug/L		102	72 - 128
1,1-Dichloroethane	50.0	50.6		ug/L		101	66 - 130
1,1-Dichloroethene	50.0	50.3		ug/L		101	62 - 130
1,1-Dichloropropene	50.0	50.9		ug/L		102	64 - 133
1,2,3-Trichloropropane	50.0	52.6		ug/L		105	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	51.2		ug/L		102	58 - 122
1,2-Dichlorobenzene	50.0	52.7		ug/L		105	77 - 121
1,2-Dichloroethane	50.0	47.0		ug/L		94	61 - 130
1,2-Dichloropropane	50.0	51.1		ug/L		102	68 - 127
1,3-Dichlorobenzene	50.0	51.2		ug/L		102	76 - 121
1,3-Dichloropropane	50.0	53.6		ug/L		107	80 - 118
1,4-Dichlorobenzene	50.0	55.0		ug/L		110	76 - 119
2,2-Dichloropropane	50.0	56.5		ug/L		113	57 - 140
2-Hexanone	200	187		ug/L		94	58 - 134
4-Methyl-2-pentanone (MIBK)	200	180		ug/L		90	56 - 135
Acetone	200	179		ug/L		89	50 - 137
Benzene	50.0	50.8		ug/L		102	69 - 126

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621382/4

Matrix: Water

Analysis Batch: 621382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	50.0	56.1		ug/L		112	57 - 125
Bromomethane	50.0	54.4		ug/L		109	25 - 163
Carbon disulfide	50.0	45.4		ug/L		91	56 - 128
Carbon tetrachloride	50.0	55.5		ug/L		111	60 - 133
Chlorobenzene	50.0	52.6		ug/L		105	78 - 118
Chlorobromomethane	50.0	50.9		ug/L		102	71 - 130
Chlorodibromomethane	50.0	60.2		ug/L		120	71 - 122
Chloroethane	50.0	50.5		ug/L		101	52 - 144
Chloroform	50.0	51.5		ug/L		103	68 - 128
Chloromethane	50.0	52.5		ug/L		105	43 - 142
cis-1,2-Dichloroethene	50.0	48.7		ug/L		97	69 - 126
cis-1,3-Dichloropropene	50.0	58.0		ug/L		116	75 - 120
Dibromomethane	50.0	47.8		ug/L		96	68 - 129
Dichlorobromomethane	50.0	52.9		ug/L		106	67 - 126
Dichlorodifluoromethane	50.0	53.3		ug/L		107	26 - 152
Ethylbenzene	50.0	54.8		ug/L		110	76 - 121
Iodomethane	50.0	51.6		ug/L		103	37 - 145
Isobutyl alcohol	1250	974		ug/L		78	46 - 132
Methylene Chloride	50.0	51.4		ug/L		103	64 - 128
m-Xylene & p-Xylene	50.0	54.4		ug/L		109	76 - 122
o-Xylene	50.0	54.9		ug/L		110	77 - 120
Styrene	50.0	56.0		ug/L		112	79 - 120
Tetrachloroethene	50.0	54.9		ug/L		110	72 - 127
Toluene	50.0	50.3		ug/L		101	68 - 127
trans-1,2-Dichloroethene	50.0	49.5		ug/L		99	66 - 129
trans-1,3-Dichloropropene	50.0	51.8		ug/L		104	66 - 127
Trichloroethene	50.0	53.7		ug/L		107	70 - 125
Trichlorofluoromethane	50.0	48.7		ug/L		97	57 - 144
Vinyl acetate	100	102		ug/L		102	61 - 139
Vinyl chloride	50.0	53.9		ug/L		108	53 - 141
Xylenes, Total	100	109		ug/L		109	77 - 120
2-Butanone (MEK)	200	166		ug/L		83	53 - 135
Acrolein	494	788		ug/L		160	10 - 207
Acrylonitrile	500	431		ug/L		86	65 - 133
1,2-Dibromoethane	50.0	54.1		ug/L		108	81 - 118
1,2,4-Trichlorobenzene	50.0	52.0		ug/L		104	73 - 124
Allyl chloride	50.0	48.9		ug/L		98	57 - 136
Ethyl methacrylate	50.0	56.3		ug/L		113	69 - 126
trans-1,4-Dichloro-2-butene	50.0	80.9	*+	ug/L		162	44 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 127
4-Bromofluorobenzene (Surr)	101		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	93		77 - 120

QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621382/5

Matrix: Water

Analysis Batch: 621382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroprene	25.0	20.3		ug/L		81	53 - 147
Acetonitrile	250	159		ug/L		63	45 - 142
Methacrylonitrile	250	193		ug/L		77	47 - 142
Methyl methacrylate	50.0	42.7		ug/L		85	60 - 131
Propionitrile	250	173		ug/L		69	52 - 138

Surrogate	%Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 127
4-Bromofluorobenzene (Surr)	101		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	95		77 - 120

Lab Sample ID: LCSD 280-621382/6

Matrix: Water

Analysis Batch: 621382

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	60.6		ug/L		121	74 - 121	2	20
1,1,1-Trichloroethane	50.0	55.5		ug/L		111	62 - 132	3	20
1,1,2,2-Tetrachloroethane	50.0	54.2		ug/L		108	72 - 122	2	20
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	72 - 128	2	20
1,1-Dichloroethane	50.0	51.9		ug/L		104	66 - 130	3	20
1,1-Dichloroethene	50.0	53.0		ug/L		106	62 - 130	5	21
1,1-Dichloropropene	50.0	53.1		ug/L		106	64 - 133	4	20
1,2,3-Trichloropropane	50.0	52.6		ug/L		105	74 - 123	0	20
1,2-Dibromo-3-Chloropropane	50.0	51.0		ug/L		102	58 - 122	0	21
1,2-Dichlorobenzene	50.0	55.0		ug/L		110	77 - 121	4	20
1,2-Dichloroethane	50.0	48.2		ug/L		96	61 - 130	3	20
1,2-Dichloropropane	50.0	51.4		ug/L		103	68 - 127	1	20
1,3-Dichlorobenzene	50.0	52.8		ug/L		106	76 - 121	3	20
1,3-Dichloropropane	50.0	55.0		ug/L		110	80 - 118	3	20
1,4-Dichlorobenzene	50.0	56.7		ug/L		113	76 - 119	3	20
2,2-Dichloropropane	50.0	57.3		ug/L		115	57 - 140	1	22
2-Hexanone	200	187		ug/L		94	58 - 134	0	21
4-Methyl-2-pentanone (MIBK)	200	179		ug/L		90	56 - 135	0	20
Acetone	200	174		ug/L		87	50 - 137	3	21
Benzene	50.0	51.6		ug/L		103	69 - 126	2	20
Bromoform	50.0	58.4		ug/L		117	57 - 125	4	20
Bromomethane	50.0	55.5		ug/L		111	25 - 163	2	40
Carbon disulfide	50.0	47.0		ug/L		94	56 - 128	3	20
Carbon tetrachloride	50.0	57.7		ug/L		115	60 - 133	4	20
Chlorobenzene	50.0	55.1		ug/L		110	78 - 118	5	20
Chlorobromomethane	50.0	51.3		ug/L		103	71 - 130	1	20
Chlorodibromomethane	50.0	61.7	*+	ug/L		123	71 - 122	2	20
Chloroethane	50.0	51.2		ug/L		102	52 - 144	1	30
Chloroform	50.0	52.8		ug/L		106	68 - 128	3	20
Chloromethane	50.0	52.6		ug/L		105	43 - 142	0	20
cis-1,2-Dichloroethene	50.0	49.5		ug/L		99	69 - 126	2	20

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621382/6

Matrix: Water

Analysis Batch: 621382

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	50.0	59.5		ug/L		119	75 - 120	3	20
Dibromomethane	50.0	49.1		ug/L		98	68 - 129	3	20
Dichlorobromomethane	50.0	54.3		ug/L		109	67 - 126	3	20
Dichlorodifluoromethane	50.0	56.9		ug/L		114	26 - 152	7	21
Ethylbenzene	50.0	57.7		ug/L		115	76 - 121	5	20
Iodomethane	50.0	52.7		ug/L		105	37 - 145	2	38
Isobutyl alcohol	1250	918		ug/L		73	46 - 132	6	30
Methylene Chloride	50.0	51.9		ug/L		104	64 - 128	1	20
m-Xylene & p-Xylene	50.0	57.6		ug/L		115	76 - 122	6	20
o-Xylene	50.0	56.9		ug/L		114	77 - 120	4	20
Styrene	50.0	57.3		ug/L		115	79 - 120	2	20
Tetrachloroethene	50.0	57.4		ug/L		115	72 - 127	5	20
Toluene	50.0	51.0		ug/L		102	68 - 127	1	20
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	66 - 129	4	20
trans-1,3-Dichloropropene	50.0	52.3		ug/L		105	66 - 127	1	20
Trichloroethene	50.0	55.9		ug/L		112	70 - 125	4	20
Trichlorofluoromethane	50.0	49.7		ug/L		99	57 - 144	2	28
Vinyl acetate	100	103		ug/L		103	61 - 139	1	23
Vinyl chloride	50.0	55.1		ug/L		110	53 - 141	2	25
Xylenes, Total	100	115		ug/L		115	77 - 120	5	20
2-Butanone (MEK)	200	161		ug/L		81	53 - 135	3	20
Acrolein	494	806		ug/L		163	10 - 207	2	23
Acrylonitrile	500	421		ug/L		84	65 - 133	2	20
1,2-Dibromoethane	50.0	55.0		ug/L		110	81 - 118	2	20
1,2,4-Trichlorobenzene	50.0	53.5		ug/L		107	73 - 124	3	20
Allyl chloride	50.0	49.7		ug/L		99	57 - 136	2	20
Ethyl methacrylate	50.0	58.7		ug/L		117	69 - 126	4	20
trans-1,4-Dichloro-2-butene	50.0	82.4	+	ug/L		165	44 - 131	2	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	94		77 - 120

Lab Sample ID: LCSD 280-621382/7

Matrix: Water

Analysis Batch: 621382

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroprene	25.0	19.6		ug/L		79	53 - 147	3	20
Acetonitrile	250	153		ug/L		61	45 - 142	4	20
Methacrylonitrile	250	184		ug/L		74	47 - 142	5	20
Methyl methacrylate	50.0	40.5		ug/L		81	60 - 131	5	20
Propionitrile	250	163		ug/L		65	52 - 138	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 127

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621382/7

Matrix: Water

Analysis Batch: 621382

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		78 - 120
Toluene-d8 (Surr)	99		80 - 125
Dibromofluoromethane (Surr)	93		77 - 120

Lab Sample ID: MB 280-621621/9

Matrix: Water

Analysis Batch: 621621

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/02/23 18:24	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/02/23 18:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/02/23 18:24	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/02/23 18:24	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/02/23 18:24	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/02/23 18:24	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/02/23 18:24	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/02/23 18:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/02/23 18:24	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/02/23 18:24	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/02/23 18:24	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/02/23 18:24	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/02/23 18:24	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 18:24	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/02/23 18:24	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/02/23 18:24	1
2-Hexanone	ND		5.0	1.7	ug/L			08/02/23 18:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/02/23 18:24	1
Acetone	ND		15	6.6	ug/L			08/02/23 18:24	1
Benzene	ND		1.0	0.31	ug/L			08/02/23 18:24	1
Bromoform	ND		2.0	1.2	ug/L			08/02/23 18:24	1
Bromomethane	ND		5.0	2.4	ug/L			08/02/23 18:24	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/02/23 18:24	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/02/23 18:24	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/02/23 18:24	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/02/23 18:24	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/02/23 18:24	1
Chloroethane	ND		4.0	1.4	ug/L			08/02/23 18:24	1
Chloroform	ND		1.0	0.36	ug/L			08/02/23 18:24	1
Chloromethane	ND		2.0	0.75	ug/L			08/02/23 18:24	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/02/23 18:24	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/02/23 18:24	1
Dibromomethane	ND		1.0	0.34	ug/L			08/02/23 18:24	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/02/23 18:24	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/02/23 18:24	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/02/23 18:24	1
Iodomethane	ND		5.0	2.6	ug/L			08/02/23 18:24	1
Isobutyl alcohol	ND		110	37	ug/L			08/02/23 18:24	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/02/23 18:24	1

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 280-621621/9

Matrix: Water

Analysis Batch: 621621

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/02/23 18:24	1
o-Xylene	ND		1.0	0.33	ug/L			08/02/23 18:24	1
Styrene	ND		1.0	0.36	ug/L			08/02/23 18:24	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/02/23 18:24	1
Toluene	ND		1.0	0.32	ug/L			08/02/23 18:24	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/02/23 18:24	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/02/23 18:24	1
Trichloroethene	ND		1.0	0.30	ug/L			08/02/23 18:24	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/02/23 18:24	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/02/23 18:24	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/02/23 18:24	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/02/23 18:24	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/02/23 18:24	1
Acrolein	ND		20	4.9	ug/L			08/02/23 18:24	1
Acrylonitrile	ND		20	4.5	ug/L			08/02/23 18:24	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/02/23 18:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/02/23 18:24	1
Allyl chloride	ND		2.0	0.17	ug/L			08/02/23 18:24	1
Chloroprene	ND		3.0	1.2	ug/L			08/02/23 18:24	1
Acetonitrile	ND		30	9.6	ug/L			08/02/23 18:24	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/02/23 18:24	1
Methacrylonitrile	ND		15	5.3	ug/L			08/02/23 18:24	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/02/23 18:24	1
Propionitrile	ND		20	3.7	ug/L			08/02/23 18:24	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/02/23 18:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 127		08/02/23 18:24	1
4-Bromofluorobenzene (Surr)	103		78 - 120		08/02/23 18:24	1
Toluene-d8 (Surr)	102		80 - 125		08/02/23 18:24	1
Dibromofluoromethane (Surr)	104		77 - 120		08/02/23 18:24	1

Lab Sample ID: LCS 280-621621/4

Matrix: Water

Analysis Batch: 621621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	52.1		ug/L		104	74 - 121
1,1,1-Trichloroethane	50.0	52.4		ug/L		105	62 - 132
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/L		96	72 - 122
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	72 - 128
1,1-Dichloroethane	50.0	52.7		ug/L		105	66 - 130
1,1-Dichloroethene	50.0	50.1		ug/L		100	62 - 130
1,1-Dichloropropene	50.0	52.4		ug/L		105	64 - 133
1,2,3-Trichloropropane	50.0	52.7		ug/L		105	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/L		98	58 - 122
1,2-Dichlorobenzene	50.0	51.5		ug/L		103	77 - 121
1,2-Dichloroethane	50.0	55.1		ug/L		110	61 - 130

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621621/4

Matrix: Water

Analysis Batch: 621621

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	50.0	53.5		ug/L		107	68 - 127
1,3-Dichlorobenzene	50.0	50.2		ug/L		100	76 - 121
1,3-Dichloropropane	50.0	54.5		ug/L		109	80 - 118
1,4-Dichlorobenzene	50.0	48.4		ug/L		97	76 - 119
2,2-Dichloropropane	50.0	45.7		ug/L		91	57 - 140
2-Hexanone	200	229		ug/L		115	58 - 134
4-Methyl-2-pentanone (MIBK)	200	219		ug/L		109	56 - 135
Acetone	200	220		ug/L		110	50 - 137
Benzene	50.0	51.7		ug/L		103	69 - 126
Bromoform	50.0	52.0		ug/L		104	57 - 125
Bromomethane	50.0	36.8		ug/L		74	25 - 163
Carbon disulfide	50.0	47.6		ug/L		95	56 - 128
Carbon tetrachloride	50.0	52.9		ug/L		106	60 - 133
Chlorobenzene	50.0	49.9		ug/L		100	78 - 118
Chlorobromomethane	50.0	53.9		ug/L		108	71 - 130
Chlorodibromomethane	50.0	52.1		ug/L		104	71 - 122
Chloroethane	50.0	49.1		ug/L		98	52 - 144
Chloroform	50.0	52.8		ug/L		106	68 - 128
Chloromethane	50.0	50.1		ug/L		100	43 - 142
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	69 - 126
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	75 - 120
Dibromomethane	50.0	52.3		ug/L		105	68 - 129
Dichlorobromomethane	50.0	54.3		ug/L		109	67 - 126
Dichlorodifluoromethane	50.0	50.9		ug/L		102	26 - 152
Ethylbenzene	50.0	51.9		ug/L		104	76 - 121
Iodomethane	50.0	50.2		ug/L		100	37 - 145
Isobutyl alcohol	1250	1380		ug/L		111	46 - 132
Methylene Chloride	50.0	49.7		ug/L		99	64 - 128
m-Xylene & p-Xylene	50.0	51.3		ug/L		103	76 - 122
o-Xylene	50.0	53.4		ug/L		107	77 - 120
Styrene	50.0	55.4		ug/L		111	79 - 120
Tetrachloroethene	50.0	49.6		ug/L		99	72 - 127
Toluene	50.0	51.0		ug/L		102	68 - 127
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	66 - 129
trans-1,3-Dichloropropene	50.0	52.7		ug/L		105	66 - 127
Trichloroethene	50.0	55.0		ug/L		110	70 - 125
Trichlorofluoromethane	50.0	50.0		ug/L		100	57 - 144
Vinyl acetate	100	51.9	*-	ug/L		52	61 - 139
Vinyl chloride	50.0	51.6		ug/L		103	53 - 141
Xylenes, Total	100	105		ug/L		105	77 - 120
2-Butanone (MEK)	200	233		ug/L		117	53 - 135
Acrolein	494	490		ug/L		99	10 - 207
Acrylonitrile	500	581		ug/L		116	65 - 133
1,2-Dibromoethane	50.0	53.9		ug/L		108	81 - 118
1,2,4-Trichlorobenzene	50.0	46.7		ug/L		93	73 - 124
Allyl chloride	50.0	47.3		ug/L		95	57 - 136
Ethyl methacrylate	50.0	51.7		ug/L		103	69 - 126
trans-1,4-Dichloro-2-butene	50.0	51.9		ug/L		104	44 - 131

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621621/4
Matrix: Water
Analysis Batch: 621621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	101		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	99		77 - 120

Lab Sample ID: LCS 280-621621/5
Matrix: Water
Analysis Batch: 621621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroprene	25.0	31.1		ug/L		124	53 - 147
Acetonitrile	250	368	*+	ug/L		147	45 - 142
Methacrylonitrile	250	343		ug/L		137	47 - 142
Methyl methacrylate	50.0	44.9		ug/L		90	60 - 131
Propionitrile	250	280		ug/L		112	52 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 127
4-Bromofluorobenzene (Surr)	107		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	103		77 - 120

Lab Sample ID: LCSD 280-621621/6
Matrix: Water
Analysis Batch: 621621

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	74 - 121	4	20
1,1,1-Trichloroethane	50.0	53.3		ug/L		107	62 - 132	2	20
1,1,2,2-Tetrachloroethane	50.0	50.5		ug/L		101	72 - 122	5	20
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	72 - 128	3	20
1,1-Dichloroethane	50.0	51.1		ug/L		102	66 - 130	3	20
1,1-Dichloroethene	50.0	50.3		ug/L		101	62 - 130	0	21
1,1-Dichloropropene	50.0	53.7		ug/L		107	64 - 133	2	20
1,2,3-Trichloropropane	50.0	48.1		ug/L		96	74 - 123	9	20
1,2-Dibromo-3-Chloropropane	50.0	41.3		ug/L		83	58 - 122	17	21
1,2-Dichlorobenzene	50.0	48.8		ug/L		98	77 - 121	5	20
1,2-Dichloroethane	50.0	52.8		ug/L		106	61 - 130	4	20
1,2-Dichloropropane	50.0	51.9		ug/L		104	68 - 127	3	20
1,3-Dichlorobenzene	50.0	48.0		ug/L		96	76 - 121	5	20
1,3-Dichloropropane	50.0	51.3		ug/L		103	80 - 118	6	20
1,4-Dichlorobenzene	50.0	47.1		ug/L		94	76 - 119	3	20
2,2-Dichloropropane	50.0	54.9		ug/L		110	57 - 140	18	22
2-Hexanone	200	204		ug/L		102	58 - 134	12	21
4-Methyl-2-pentanone (MIBK)	200	207		ug/L		104	56 - 135	6	20
Acetone	200	205		ug/L		103	50 - 137	7	21
Benzene	50.0	51.2		ug/L		102	69 - 126	1	20
Bromoform	50.0	46.8		ug/L		94	57 - 125	11	20

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621621/6

Matrix: Water

Analysis Batch: 621621

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	50.0	38.8		ug/L		78	25 - 163	5	40
Carbon disulfide	50.0	47.2		ug/L		94	56 - 128	1	20
Carbon tetrachloride	50.0	54.5		ug/L		109	60 - 133	3	20
Chlorobenzene	50.0	47.7		ug/L		95	78 - 118	4	20
Chlorobromomethane	50.0	50.9		ug/L		102	71 - 130	6	20
Chlorodibromomethane	50.0	49.5		ug/L		99	71 - 122	5	20
Chloroethane	50.0	45.0		ug/L		90	52 - 144	9	30
Chloroform	50.0	51.8		ug/L		104	68 - 128	2	20
Chloromethane	50.0	42.4		ug/L		85	43 - 142	17	20
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	69 - 126	0	20
cis-1,3-Dichloropropene	50.0	50.8		ug/L		102	75 - 120	2	20
Dibromomethane	50.0	50.5		ug/L		101	68 - 129	3	20
Dichlorobromomethane	50.0	53.2		ug/L		106	67 - 126	2	20
Dichlorodifluoromethane	50.0	44.0		ug/L		88	26 - 152	15	21
Ethylbenzene	50.0	49.4		ug/L		99	76 - 121	5	20
Iodomethane	50.0	49.2		ug/L		98	37 - 145	2	38
Isobutyl alcohol	1250	1200		ug/L		96	46 - 132	14	30
Methylene Chloride	50.0	48.1		ug/L		96	64 - 128	3	20
m-Xylene & p-Xylene	50.0	49.6		ug/L		99	76 - 122	4	20
o-Xylene	50.0	51.2		ug/L		102	77 - 120	4	20
Styrene	50.0	52.3		ug/L		105	79 - 120	6	20
Tetrachloroethene	50.0	49.8		ug/L		100	72 - 127	0	20
Toluene	50.0	50.1		ug/L		100	68 - 127	2	20
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	66 - 129	0	20
trans-1,3-Dichloropropene	50.0	53.4		ug/L		107	66 - 127	1	20
Trichloroethene	50.0	47.7		ug/L		95	70 - 125	14	20
Trichlorofluoromethane	50.0	50.2		ug/L		100	57 - 144	0	28
Vinyl acetate	100	104	*1	ug/L		104	61 - 139	67	23
Vinyl chloride	50.0	47.8		ug/L		96	53 - 141	8	25
Xylenes, Total	100	101		ug/L		101	77 - 120	4	20
2-Butanone (MEK)	200	217		ug/L		109	53 - 135	7	20
Acrolein	494	496		ug/L		100	10 - 207	1	23
Acrylonitrile	500	528		ug/L		106	65 - 133	10	20
1,2-Dibromoethane	50.0	49.3		ug/L		99	81 - 118	9	20
1,2,4-Trichlorobenzene	50.0	44.6		ug/L		89	73 - 124	5	20
Allyl chloride	50.0	50.1		ug/L		100	57 - 136	6	20
Ethyl methacrylate	50.0	48.4		ug/L		97	69 - 126	7	20
trans-1,4-Dichloro-2-butene	50.0	51.4		ug/L		103	44 - 131	1	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 127
4-Bromofluorobenzene (Surr)	102		78 - 120
Toluene-d8 (Surr)	98		80 - 125
Dibromofluoromethane (Surr)	101		77 - 120

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621621/7

Matrix: Water

Analysis Batch: 621621

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroprene	25.0	33.7		ug/L		135	53 - 147	8	20
Acetonitrile	250	363	*+	ug/L		145	45 - 142	1	20
Methacrylonitrile	250	342		ug/L		137	47 - 142	0	20
Methyl methacrylate	50.0	46.4		ug/L		93	60 - 131	3	20
Propionitrile	250	277		ug/L		111	52 - 138	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127
4-Bromofluorobenzene (Surr)	107		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	102		77 - 120

Lab Sample ID: MB 280-621775/9

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 18:17	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 18:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 18:17	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 18:17	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 18:17	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 18:17	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 18:17	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 18:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 18:17	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 18:17	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 18:17	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 18:17	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 18:17	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 18:17	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 18:17	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 18:17	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 18:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 18:17	1
Acetone	ND		15	6.6	ug/L			08/03/23 18:17	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 18:17	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 18:17	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 18:17	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 18:17	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 18:17	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 18:17	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 18:17	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 18:17	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 18:17	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 18:17	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 18:17	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 18:17	1

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 280-621775/9

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 18:17	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 18:17	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 18:17	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 18:17	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 18:17	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 18:17	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 18:17	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 18:17	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 18:17	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 18:17	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 18:17	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 18:17	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 18:17	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 18:17	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 18:17	1
Trichloroethene	ND		1.0	0.30	ug/L			08/03/23 18:17	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 18:17	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 18:17	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 18:17	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 18:17	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 18:17	1
Acrolein	ND		20	4.9	ug/L			08/03/23 18:17	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 18:17	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 18:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 18:17	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 18:17	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 18:17	1
Acetonitrile	ND		30	9.6	ug/L			08/03/23 18:17	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 18:17	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 18:17	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 18:17	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 18:17	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 18:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 127		08/03/23 18:17	1
4-Bromofluorobenzene (Surr)	104		78 - 120		08/03/23 18:17	1
Toluene-d8 (Surr)	102		80 - 125		08/03/23 18:17	1
Dibromofluoromethane (Surr)	102		77 - 120		08/03/23 18:17	1

Lab Sample ID: LCS 280-621775/4

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	52.1		ug/L		104	74 - 121
1,1,1-Trichloroethane	50.0	52.7		ug/L		105	62 - 132
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/L		104	72 - 122

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621775/4

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	50.0	51.9		ug/L		104	72 - 128
1,1-Dichloroethane	50.0	52.0		ug/L		104	66 - 130
1,1-Dichloroethene	50.0	49.5		ug/L		99	62 - 130
1,1-Dichloropropene	50.0	52.8		ug/L		106	64 - 133
1,2,3-Trichloropropane	50.0	51.6		ug/L		103	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	48.2		ug/L		96	58 - 122
1,2-Dichlorobenzene	50.0	49.8		ug/L		100	77 - 121
1,2-Dichloroethane	50.0	53.1		ug/L		106	61 - 130
1,2-Dichloropropane	50.0	53.0		ug/L		106	68 - 127
1,3-Dichlorobenzene	50.0	49.1		ug/L		98	76 - 121
1,3-Dichloropropane	50.0	54.7		ug/L		109	80 - 118
1,4-Dichlorobenzene	50.0	47.8		ug/L		96	76 - 119
2,2-Dichloropropane	50.0	46.2		ug/L		92	57 - 140
2-Hexanone	200	222		ug/L		111	58 - 134
4-Methyl-2-pentanone (MIBK)	200	214		ug/L		107	56 - 135
Acetone	200	210		ug/L		105	50 - 137
Benzene	50.0	51.6		ug/L		103	69 - 126
Bromoform	50.0	50.6		ug/L		101	57 - 125
Bromomethane	50.0	34.5		ug/L		69	25 - 163
Carbon disulfide	50.0	46.6		ug/L		93	56 - 128
Carbon tetrachloride	50.0	52.6		ug/L		105	60 - 133
Chlorobenzene	50.0	49.5		ug/L		99	78 - 118
Chlorobromomethane	50.0	52.4		ug/L		105	71 - 130
Chlorodibromomethane	50.0	51.2		ug/L		102	71 - 122
Chloroethane	50.0	47.6		ug/L		95	52 - 144
Chloroform	50.0	51.4		ug/L		103	68 - 128
Chloromethane	50.0	48.2		ug/L		96	43 - 142
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	69 - 126
cis-1,3-Dichloropropene	50.0	52.8		ug/L		106	75 - 120
Dibromomethane	50.0	50.8		ug/L		102	68 - 129
Dichlorobromomethane	50.0	53.0		ug/L		106	67 - 126
Dichlorodifluoromethane	50.0	53.5		ug/L		107	26 - 152
Ethylbenzene	50.0	51.6		ug/L		103	76 - 121
Iodomethane	50.0	43.7		ug/L		87	37 - 145
Isobutyl alcohol	1250	1260		ug/L		101	46 - 132
Methylene Chloride	50.0	48.8		ug/L		98	64 - 128
m-Xylene & p-Xylene	50.0	53.6		ug/L		107	76 - 122
o-Xylene	50.0	53.9		ug/L		108	77 - 120
Styrene	50.0	54.5		ug/L		109	79 - 120
Tetrachloroethene	50.0	50.6		ug/L		101	72 - 127
Toluene	50.0	51.1		ug/L		102	68 - 127
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	66 - 129
trans-1,3-Dichloropropene	50.0	51.9		ug/L		104	66 - 127
Trichloroethene	50.0	51.7		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	54.0		ug/L		108	57 - 144
Vinyl acetate	100	99.0		ug/L		99	61 - 139
Vinyl chloride	50.0	51.4		ug/L		103	53 - 141
Xylenes, Total	100	108		ug/L		108	77 - 120
2-Butanone (MEK)	200	228		ug/L		114	53 - 135

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621775/4

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	494	481		ug/L		97	10 - 207
Acrylonitrile	500	557		ug/L		111	65 - 133
1,2-Dibromoethane	50.0	53.1		ug/L		106	81 - 118
1,2,4-Trichlorobenzene	50.0	47.2		ug/L		94	73 - 124
Allyl chloride	50.0	48.1		ug/L		96	57 - 136
Ethyl methacrylate	50.0	52.7		ug/L		105	69 - 126
trans-1,4-Dichloro-2-butene	50.0	49.7		ug/L		99	44 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Toluene-d8 (Surr)	102		80 - 125
Dibromofluoromethane (Surr)	101		77 - 120

Lab Sample ID: LCS 280-621775/5

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroprene	25.0	31.1		ug/L		124	53 - 147
Acetonitrile	250	359	*+	ug/L		144	45 - 142
Methacrylonitrile	250	334		ug/L		133	47 - 142
Methyl methacrylate	50.0	45.8		ug/L		92	60 - 131
Propionitrile	250	274		ug/L		109	52 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
4-Bromofluorobenzene (Surr)	107		78 - 120
Toluene-d8 (Surr)	101		80 - 125
Dibromofluoromethane (Surr)	102		77 - 120

Lab Sample ID: LCSD 280-621775/6

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/L		101	74 - 121	3	20
1,1,1-Trichloroethane	50.0	48.5		ug/L		97	62 - 132	8	20
1,1,2,2-Tetrachloroethane	50.0	53.0		ug/L		106	72 - 122	2	20
1,1,2-Trichloroethane	50.0	52.5		ug/L		105	72 - 128	1	20
1,1-Dichloroethane	50.0	49.2		ug/L		98	66 - 130	6	20
1,1-Dichloroethene	50.0	44.0		ug/L		88	62 - 130	12	21
1,1-Dichloropropene	50.0	48.5		ug/L		97	64 - 133	8	20
1,2,3-Trichloropropane	50.0	51.6		ug/L		103	74 - 123	0	20
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/L		95	58 - 122	2	21
1,2-Dichlorobenzene	50.0	50.0		ug/L		100	77 - 121	0	20
1,2-Dichloroethane	50.0	53.5		ug/L		107	61 - 130	1	20
1,2-Dichloropropane	50.0	51.8		ug/L		104	68 - 127	2	20

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621775/6

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3-Dichlorobenzene	50.0	48.7		ug/L		97	76 - 121	1	20
1,3-Dichloropropane	50.0	53.2		ug/L		106	80 - 118	3	20
1,4-Dichlorobenzene	50.0	47.8		ug/L		96	76 - 119	0	20
2,2-Dichloropropane	50.0	51.1		ug/L		102	57 - 140	10	22
2-Hexanone	200	224		ug/L		112	58 - 134	1	21
4-Methyl-2-pentanone (MIBK)	200	218		ug/L		109	56 - 135	2	20
Acetone	200	219		ug/L		109	50 - 137	4	21
Benzene	50.0	49.4		ug/L		99	69 - 126	4	20
Bromoform	50.0	51.2		ug/L		102	57 - 125	1	20
Bromomethane	50.0	34.5		ug/L		69	25 - 163	0	40
Carbon disulfide	50.0	39.4		ug/L		79	56 - 128	17	20
Carbon tetrachloride	50.0	48.2		ug/L		96	60 - 133	9	20
Chlorobenzene	50.0	48.3		ug/L		97	78 - 118	2	20
Chlorobromomethane	50.0	51.7		ug/L		103	71 - 130	1	20
Chlorodibromomethane	50.0	51.9		ug/L		104	71 - 122	1	20
Chloroethane	50.0	40.4		ug/L		81	52 - 144	16	30
Chloroform	50.0	50.6		ug/L		101	68 - 128	1	20
Chloromethane	50.0	37.7	*1	ug/L		75	43 - 142	24	20
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	69 - 126	2	20
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	75 - 120	1	20
Dibromomethane	50.0	51.3		ug/L		103	68 - 129	1	20
Dichlorobromomethane	50.0	53.1		ug/L		106	67 - 126	0	20
Dichlorodifluoromethane	50.0	33.8	*1	ug/L		68	26 - 152	45	21
Ethylbenzene	50.0	49.2		ug/L		98	76 - 121	5	20
Iodomethane	50.0	42.2		ug/L		84	37 - 145	3	38
Isobutyl alcohol	1250	1320		ug/L		106	46 - 132	4	30
Methylene Chloride	50.0	48.4		ug/L		97	64 - 128	1	20
m-Xylene & p-Xylene	50.0	49.9		ug/L		100	76 - 122	7	20
o-Xylene	50.0	51.6		ug/L		103	77 - 120	4	20
Styrene	50.0	53.1		ug/L		106	79 - 120	3	20
Tetrachloroethene	50.0	47.6		ug/L		95	72 - 127	6	20
Toluene	50.0	49.1		ug/L		98	68 - 127	4	20
trans-1,2-Dichloroethene	50.0	45.7		ug/L		91	66 - 129	7	20
trans-1,3-Dichloropropene	50.0	54.8		ug/L		110	66 - 127	5	20
Trichloroethene	50.0	46.9		ug/L		94	70 - 125	10	20
Trichlorofluoromethane	50.0	43.7		ug/L		87	57 - 144	21	28
Vinyl acetate	100	114		ug/L		114	61 - 139	14	23
Vinyl chloride	50.0	40.0		ug/L		80	53 - 141	25	25
Xylenes, Total	100	102		ug/L		102	77 - 120	6	20
2-Butanone (MEK)	200	231		ug/L		116	53 - 135	2	20
Acrolein	494	534		ug/L		108	10 - 207	10	23
Acrylonitrile	500	557		ug/L		111	65 - 133	0	20
1,2-Dibromoethane	50.0	52.4		ug/L		105	81 - 118	1	20
1,2,4-Trichlorobenzene	50.0	48.4		ug/L		97	73 - 124	2	20
Allyl chloride	50.0	46.7		ug/L		93	57 - 136	3	20
Ethyl methacrylate	50.0	52.9		ug/L		106	69 - 126	0	20
trans-1,4-Dichloro-2-butene	50.0	54.3		ug/L		109	44 - 131	9	24

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621775/6

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	100		77 - 120

Lab Sample ID: LCSD 280-621775/7

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroprene	25.0	33.1		ug/L		132	53 - 147	6	20
Acetonitrile	250	380	*+	ug/L		152	45 - 142	6	20
Methacrylonitrile	250	359	*+	ug/L		144	47 - 142	7	20
Methyl methacrylate	50.0	50.0		ug/L		100	60 - 131	9	20
Propionitrile	250	288		ug/L		115	52 - 138	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	108		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	100		77 - 120

Lab Sample ID: 280-179475-13 MS

Matrix: Water

Analysis Batch: 621775

Client Sample ID: PA-3-20230722

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		50.0	52.2		ug/L		104	74 - 121
1,1,1-Trichloroethane	ND		50.0	54.6		ug/L		109	62 - 132
1,1,2,2-Tetrachloroethane	ND		50.0	52.7		ug/L		105	72 - 122
1,1,2-Trichloroethane	ND		50.0	51.7		ug/L		103	72 - 128
1,1-Dichloroethane	ND		50.0	52.3		ug/L		105	66 - 130
1,1-Dichloroethene	ND		50.0	52.9		ug/L		106	62 - 130
1,1-Dichloropropene	ND		50.0	54.8		ug/L		110	64 - 133
1,2,3-Trichloropropane	ND		50.0	50.8		ug/L		102	74 - 123
1,2-Dibromo-3-Chloropropane	ND		50.0	47.6		ug/L		95	58 - 122
1,2-Dichlorobenzene	ND		50.0	50.5		ug/L		101	77 - 121
1,2-Dichloroethane	ND		50.0	53.5		ug/L		107	61 - 130
1,2-Dichloropropane	ND		50.0	52.6		ug/L		105	68 - 127
1,3-Dichlorobenzene	ND		50.0	49.9		ug/L		100	76 - 121
1,3-Dichloropropane	ND		50.0	53.7		ug/L		107	80 - 118
1,4-Dichlorobenzene	ND		50.0	48.8		ug/L		98	76 - 119
2,2-Dichloropropane	ND		50.0	51.6		ug/L		103	57 - 140
2-Hexanone	ND		200	209		ug/L		105	58 - 134
4-Methyl-2-pentanone (MIBK)	ND		200	204		ug/L		102	56 - 135
Acetone	ND		200	196		ug/L		98	50 - 137
Benzene	ND		50.0	51.6		ug/L		103	69 - 126
Bromoform	ND		50.0	50.7		ug/L		101	57 - 125

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 280-179475-13 MS

Matrix: Water

Analysis Batch: 621775

Client Sample ID: PA-3-20230722

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	ND		50.0	37.7		ug/L		75	25 - 163
Carbon disulfide	ND		50.0	50.6		ug/L		101	56 - 128
Carbon tetrachloride	ND		50.0	55.3		ug/L		111	60 - 133
Chlorobenzene	ND		50.0	50.0		ug/L		100	78 - 118
Chlorobromomethane	ND		50.0	52.7		ug/L		105	71 - 130
Chlorodibromomethane	ND		50.0	51.8		ug/L		104	71 - 122
Chloroethane	ND		50.0	41.9		ug/L		84	52 - 144
Chloroform	ND		50.0	52.1		ug/L		104	68 - 128
Chloromethane	ND	*1	50.0	39.3		ug/L		79	43 - 142
cis-1,2-Dichloroethene	ND		50.0	51.1		ug/L		102	69 - 126
cis-1,3-Dichloropropene	ND		50.0	52.4		ug/L		105	75 - 120
Dibromomethane	ND		50.0	50.9		ug/L		102	68 - 129
Dichlorobromomethane	ND		50.0	53.8		ug/L		108	67 - 126
Dichlorodifluoromethane	ND	*1	50.0	35.5		ug/L		71	26 - 152
Ethylbenzene	ND		50.0	51.6		ug/L		103	76 - 121
Iodomethane	ND		50.0	50.0		ug/L		100	37 - 145
Isobutyl alcohol	ND		1250	1280		ug/L		102	46 - 132
Methylene Chloride	ND		50.0	49.3		ug/L		99	64 - 128
m-Xylene & p-Xylene	ND		50.0	51.9		ug/L		104	76 - 122
o-Xylene	ND		50.0	53.6		ug/L		107	77 - 120
Styrene	ND		50.0	54.5		ug/L		109	79 - 120
Tetrachloroethene	ND		50.0	52.0		ug/L		104	72 - 127
Toluene	ND		50.0	50.3		ug/L		101	68 - 127
trans-1,2-Dichloroethene	ND		50.0	50.7		ug/L		101	66 - 129
trans-1,3-Dichloropropene	ND		50.0	53.9		ug/L		108	66 - 127
Trichloroethene	0.80	J	50.0	51.4		ug/L		101	70 - 125
Trichlorofluoromethane	ND		50.0	46.0		ug/L		92	57 - 144
Vinyl acetate	ND		100	113		ug/L		113	61 - 139
Vinyl chloride	ND		50.0	42.4		ug/L		85	53 - 141
Xylenes, Total	ND		100	106		ug/L		106	77 - 120
2-Butanone (MEK)	ND		200	220		ug/L		110	53 - 135
Acrolein	ND		494	480		ug/L		97	10 - 207
Acrylonitrile	ND		500	540		ug/L		108	65 - 133
1,2-Dibromoethane	ND		50.0	52.2		ug/L		104	81 - 118
1,2,4-Trichlorobenzene	ND		50.0	48.1		ug/L		96	73 - 124
Allyl chloride	ND		50.0	51.1		ug/L		102	57 - 136
Ethyl methacrylate	ND		50.0	50.8		ug/L		102	69 - 126
trans-1,4-Dichloro-2-butene	ND		50.0	52.8		ug/L		106	44 - 131

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Toluene-d8 (Surr)	99		80 - 125
Dibromofluoromethane (Surr)	100		77 - 120

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 280-179475-13 MSD

Matrix: Water

Analysis Batch: 621775

Client Sample ID: PA-3-20230722

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	52.8		ug/L		106	74 - 121	1	20
1,1,1-Trichloroethane	ND		50.0	54.3		ug/L		109	62 - 132	1	20
1,1,2,2-Tetrachloroethane	ND		50.0	53.3		ug/L		107	72 - 122	1	20
1,1,2-Trichloroethane	ND		50.0	53.0		ug/L		106	72 - 128	2	20
1,1-Dichloroethane	ND		50.0	53.0		ug/L		106	66 - 130	1	20
1,1-Dichloroethene	ND		50.0	53.1		ug/L		106	62 - 130	0	21
1,1-Dichloropropene	ND		50.0	55.3		ug/L		111	64 - 133	1	20
1,2,3-Trichloropropane	ND		50.0	50.6		ug/L		101	74 - 123	0	20
1,2-Dibromo-3-Chloropropane	ND		50.0	49.4		ug/L		99	58 - 122	4	21
1,2-Dichlorobenzene	ND		50.0	51.7		ug/L		103	77 - 121	2	20
1,2-Dichloroethane	ND		50.0	54.7		ug/L		109	61 - 130	2	20
1,2-Dichloropropane	ND		50.0	53.8		ug/L		108	68 - 127	2	20
1,3-Dichlorobenzene	ND		50.0	50.7		ug/L		101	76 - 121	2	20
1,3-Dichloropropane	ND		50.0	54.8		ug/L		110	80 - 118	2	20
1,4-Dichlorobenzene	ND		50.0	49.3		ug/L		99	76 - 119	1	20
2,2-Dichloropropane	ND		50.0	51.0		ug/L		102	57 - 140	1	22
2-Hexanone	ND		200	213		ug/L		107	58 - 134	2	21
4-Methyl-2-pentanone (MIBK)	ND		200	208		ug/L		104	56 - 135	2	20
Acetone	ND		200	197		ug/L		99	50 - 137	1	21
Benzene	ND		50.0	51.8		ug/L		104	69 - 126	0	20
Bromoform	ND		50.0	52.2		ug/L		104	57 - 125	3	20
Bromomethane	ND		50.0	36.2		ug/L		72	25 - 163	4	40
Carbon disulfide	ND		50.0	50.7		ug/L		101	56 - 128	0	20
Carbon tetrachloride	ND		50.0	55.5		ug/L		111	60 - 133	0	20
Chlorobenzene	ND		50.0	51.0		ug/L		102	78 - 118	2	20
Chlorobromomethane	ND		50.0	53.3		ug/L		107	71 - 130	1	20
Chlorodibromomethane	ND		50.0	52.5		ug/L		105	71 - 122	1	20
Chloroethane	ND		50.0	37.6		ug/L		75	52 - 144	11	30
Chloroform	ND		50.0	53.0		ug/L		106	68 - 128	2	20
Chloromethane	ND	*1	50.0	35.5		ug/L		71	43 - 142	10	20
cis-1,2-Dichloroethene	ND		50.0	50.9		ug/L		102	69 - 126	0	20
cis-1,3-Dichloropropene	ND		50.0	54.0		ug/L		108	75 - 120	3	20
Dibromomethane	ND		50.0	52.2		ug/L		104	68 - 129	3	20
Dichlorobromomethane	ND		50.0	54.1		ug/L		108	67 - 126	1	20
Dichlorodifluoromethane	ND	*1	50.0	31.6		ug/L		63	26 - 152	12	21
Ethylbenzene	ND		50.0	52.8		ug/L		106	76 - 121	2	20
Iodomethane	ND		50.0	49.1		ug/L		98	37 - 145	2	38
Isobutyl alcohol	ND		1250	1270		ug/L		102	46 - 132	0	30
Methylene Chloride	ND		50.0	49.4		ug/L		99	64 - 128	0	20
m-Xylene & p-Xylene	ND		50.0	52.4		ug/L		105	76 - 122	1	20
o-Xylene	ND		50.0	55.0		ug/L		110	77 - 120	3	20
Styrene	ND		50.0	55.5		ug/L		111	79 - 120	2	20
Tetrachloroethene	ND		50.0	51.6		ug/L		103	72 - 127	1	20
Toluene	ND		50.0	51.0		ug/L		102	68 - 127	1	20
trans-1,2-Dichloroethene	ND		50.0	50.4		ug/L		101	66 - 129	1	20
trans-1,3-Dichloropropene	ND		50.0	54.3		ug/L		109	66 - 127	1	20
Trichloroethene	0.80	J	50.0	52.6		ug/L		104	70 - 125	2	20
Trichlorofluoromethane	ND		50.0	41.8		ug/L		84	57 - 144	9	28

Eurofins Denver

QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 280-179475-13 MSD

Matrix: Water

Analysis Batch: 621775

Client Sample ID: PA-3-20230722

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl acetate	ND		100	115		ug/L		115	61 - 139	1	23
Vinyl chloride	ND		50.0	38.6		ug/L		77	53 - 141	9	25
Xylenes, Total	ND		100	107		ug/L		107	77 - 120	2	20
2-Butanone (MEK)	ND		200	221		ug/L		111	53 - 135	1	20
Acrolein	ND		494	484		ug/L		98	10 - 207	1	23
Acrylonitrile	ND		500	551		ug/L		110	65 - 133	2	20
1,2-Dibromoethane	ND		50.0	54.2		ug/L		108	81 - 118	4	20
1,2,4-Trichlorobenzene	ND		50.0	49.4		ug/L		99	73 - 124	3	20
Allyl chloride	ND		50.0	51.9		ug/L		104	57 - 136	2	20
Ethyl methacrylate	ND		50.0	52.8		ug/L		106	69 - 126	4	20
trans-1,4-Dichloro-2-butene	ND		50.0	52.1		ug/L		104	44 - 131	1	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 127
4-Bromofluorobenzene (Surr)	102		78 - 120
Toluene-d8 (Surr)	101		80 - 125
Dibromofluoromethane (Surr)	101		77 - 120

QC Association Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

GC/MS VOA

Analysis Batch: 621382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179475-1	RW-2172F-20230718	Total/NA	Water	8260D	
MB 280-621382/9	Method Blank	Total/NA	Water	8260D	
LCS 280-621382/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-621382/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-621382/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-621382/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 621621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179475-2	RW-2203H-20230719	Total/NA	Water	8260D	
280-179475-3	RW-8030P-20230720	Total/NA	Water	8260D	
280-179475-4	RW-2879M-20230720	Total/NA	Water	8260D	
280-179475-5	RW-2151H-20230720	Total/NA	Water	8260D	
280-179475-6	RW-2237H-20230720	Total/NA	Water	8260D	
280-179475-7	RW-7200P-20230720	Total/NA	Water	8260D	
280-179475-8	RW-8105PS-20230720	Total/NA	Water	8260D	
280-179475-9	RW-7505P-20230720	Total/NA	Water	8260D	
280-179475-10	RW-7505P-Q-20230720	Total/NA	Water	8260D	
MB 280-621621/9	Method Blank	Total/NA	Water	8260D	
LCS 280-621621/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-621621/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-621621/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-621621/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 621775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179475-11	TB-01-20230723	Total/NA	Water	8260D	
280-179475-12	RW-2140H-20230723	Total/NA	Water	8260D	
280-179475-13	PA-3-20230722	Total/NA	Water	8260D	
MB 280-621775/9	Method Blank	Total/NA	Water	8260D	
LCS 280-621775/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-621775/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-621775/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-621775/7	Lab Control Sample Dup	Total/NA	Water	8260D	
280-179475-13 MS	PA-3-20230722	Total/NA	Water	8260D	
280-179475-13 MSD	PA-3-20230722	Total/NA	Water	8260D	

Lab Chronicle

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-2172F-20230718

Lab Sample ID: 280-179475-1

Date Collected: 07/18/23 17:03

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621382	08/01/23 17:26	DMC	EET DEN

Client Sample ID: RW-2203H-20230719

Lab Sample ID: 280-179475-2

Date Collected: 07/19/23 17:25

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621621	08/02/23 20:51	SJD	EET DEN

Client Sample ID: RW-8030P-20230720

Lab Sample ID: 280-179475-3

Date Collected: 07/20/23 09:55

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621621	08/02/23 21:12	SJD	EET DEN

Client Sample ID: RW-2879M-20230720

Lab Sample ID: 280-179475-4

Date Collected: 07/20/23 11:40

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621621	08/02/23 21:32	SJD	EET DEN

Client Sample ID: RW-2151H-20230720

Lab Sample ID: 280-179475-5

Date Collected: 07/20/23 13:25

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621621	08/02/23 21:53	SJD	EET DEN

Client Sample ID: RW-2237H-20230720

Lab Sample ID: 280-179475-6

Date Collected: 07/20/23 13:50

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621621	08/02/23 22:14	SJD	EET DEN

Client Sample ID: RW-7200P-20230720

Lab Sample ID: 280-179475-7

Date Collected: 07/20/23 15:30

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621621	08/02/23 22:35	SJD	EET DEN

Lab Chronicle

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Client Sample ID: RW-8105PS-20230720

Lab Sample ID: 280-179475-8

Date Collected: 07/20/23 15:20

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621621	08/02/23 22:56	SJD	EET DEN

Client Sample ID: RW-7505P-20230720

Lab Sample ID: 280-179475-9

Date Collected: 07/20/23 16:25

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621621	08/02/23 23:17	SJD	EET DEN

Client Sample ID: RW-7505P-Q-20230720

Lab Sample ID: 280-179475-10

Date Collected: 07/20/23 16:25

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621621	08/02/23 23:37	SJD	EET DEN

Client Sample ID: TB-01-20230723

Lab Sample ID: 280-179475-11

Date Collected: 07/23/23 21:30

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621775	08/03/23 18:46	SJD	EET DEN

Client Sample ID: RW-2140H-20230723

Lab Sample ID: 280-179475-12

Date Collected: 07/23/23 14:30

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621775	08/03/23 20:14	SJD	EET DEN

Client Sample ID: PA-3-20230722

Lab Sample ID: 280-179475-13

Date Collected: 07/22/23 12:15

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621775	08/03/23 20:35	SJD	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025-019	01-08-24

Method Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179475-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-179475-1	RW-2172F-20230718	Water	07/18/23 17:03	07/25/23 09:45
280-179475-2	RW-2203H-20230719	Water	07/19/23 17:25	07/25/23 09:45
280-179475-3	RW-8030P-20230720	Water	07/20/23 09:55	07/25/23 09:45
280-179475-4	RW-2879M-20230720	Water	07/20/23 11:40	07/25/23 09:45
280-179475-5	RW-2151H-20230720	Water	07/20/23 13:25	07/25/23 09:45
280-179475-6	RW-2237H-20230720	Water	07/20/23 13:50	07/25/23 09:45
280-179475-7	RW-7200P-20230720	Water	07/20/23 15:30	07/25/23 09:45
280-179475-8	RW-8105PS-20230720	Water	07/20/23 15:20	07/25/23 09:45
280-179475-9	RW-7505P-20230720	Water	07/20/23 16:25	07/25/23 09:45
280-179475-10	RW-7505P-Q-20230720	Water	07/20/23 16:25	07/25/23 09:45
280-179475-11	TB-01-20230723	Water	07/23/23 21:30	07/25/23 09:45
280-179475-12	RW-2140H-20230723	Water	07/23/23 14:30	07/25/23 09:45
280-179475-13	PA-3-20230722	Water	07/22/23 12:15	07/25/23 09:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_MS13 Analysis Batch Number: 618851Lab Sample ID: IC 280-618851/31 Client Sample ID: _____Date Analyzed: 07/08/23 02:07 Lab File ID: MS13_003252.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane	4.99	Peak assignment corrected	AK2J	07/10/23 20:08
n-Heptane	5.15	Peak assignment corrected	AK2J	07/10/23 20:08

Lab Sample ID: IC 280-618851/32 Client Sample ID: _____Date Analyzed: 07/08/23 02:29 Lab File ID: MS13_003253.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.72	Peak assignment corrected	AK2J	07/10/23 20:06
Vinyl chloride	2.00	Peak assignment corrected	AK2J	07/10/23 20:06
Chloroethane	2.39	Peak assignment corrected	AK2J	07/10/23 20:06
2,2-Dichloropropane	4.32	Peak assignment corrected	AK2J	07/10/23 20:06
1,2-Dichloroethane	4.99	Peak assignment corrected	AK2J	07/10/23 20:06
n-Heptane	5.15	Peak assignment corrected	AK2J	07/10/23 20:06
1,4-Dioxane	5.70	Peak assignment corrected	Q2ZS	07/10/23 20:41
Bromoform	8.50	Peak assignment corrected	AK2J	07/10/23 20:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_MS13 Analysis Batch Number: 619014Lab Sample ID: IC 280-619014/24 Client Sample ID: _____Date Analyzed: 07/10/23 23:01 Lab File ID: MS13_003258.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	8.69	Assign Peak	RWB2	07/11/23 09:38
1,3,5-Trichlorobenzene	11.31	Assign Peak	RWB2	07/11/23 09:43

Lab Sample ID: IC 280-619014/25 Client Sample ID: _____Date Analyzed: 07/10/23 23:24 Lab File ID: MS13_003259.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	8.69	Assign Peak	RWB2	07/11/23 09:39
1,3,5-Trichlorobenzene	11.31	Assign Peak	RWB2	07/11/23 09:43

Lab Sample ID: IC 280-619014/26 Client Sample ID: _____Date Analyzed: 07/10/23 23:46 Lab File ID: MS13_003260.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	8.69	Assign Peak	RWB2	07/11/23 09:37
1,3,5-Trichlorobenzene	11.31	Assign Peak	RWB2	07/11/23 09:43

Lab Sample ID: IC 280-619014/27 Client Sample ID: _____Date Analyzed: 07/11/23 00:08 Lab File ID: MS13_003261.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
cis-1,4-Dichloro-2-butene	8.69	Assign Peak	RWB2	07/11/23 09:37
1,3,5-Trichlorobenzene	11.31	Assign Peak	RWB2	07/11/23 09:43

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_MS13 Analysis Batch Number: 619014Lab Sample ID: IC 280-619014/28 Client Sample ID: _____Date Analyzed: 07/11/23 00:31 Lab File ID: MS13_003262.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.70	Split Peak	RWB2	07/11/23 09:45
1,3,5-Trichlorobenzene	11.31	Assign Peak	RWB2	07/11/23 09:43

Lab Sample ID: IC 280-619014/29 Client Sample ID: _____Date Analyzed: 07/11/23 00:53 Lab File ID: MS13_003263.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.70	Split Peak	RWB2	07/11/23 09:45
Isopropyl alcohol	3.10	Split Peak	RWB2	07/11/23 09:47
1,3,5-Trichlorobenzene	11.31	Assign Peak	RWB2	07/11/23 09:43

Lab Sample ID: IC 280-619014/30 Client Sample ID: _____Date Analyzed: 07/11/23 01:16 Lab File ID: MS13_003264.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.69	Split Peak	RWB2	07/11/23 09:45
Isopropyl alcohol	3.10	Split Peak	RWB2	07/11/23 09:47
1,3,5-Trichlorobenzene	11.31	Assign Peak	RWB2	07/11/23 09:42

Lab Sample ID: IC 280-619014/31 Client Sample ID: _____Date Analyzed: 07/11/23 01:38 Lab File ID: MS13_003265.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.72	Assign Peak	RWB2	07/11/23 09:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_MS13 Analysis Batch Number: 619014Lab Sample ID: ICV 280-619014/32 Client Sample ID: _____Date Analyzed: 07/11/23 02:00 Lab File ID: MS13_003266.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Ethanol	2.70	Split Peak	RWB2	07/11/23 09:48
cis-1,4-Dichloro-2-butene	8.70	Split Peak	RWB2	07/11/23 09:36
1,3,5-Trichlorobenzene	11.31	Assign Peak	RWB2	07/11/23 09:44

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_MS13 Analysis Batch Number: 621382Lab Sample ID: MB 280-621382/9 Client Sample ID: _____Date Analyzed: 08/01/23 11:48 Lab File ID: MS13_004055.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile		Invalid Compound ID	J6NB	08/01/23 16:40
Allyl chloride		Invalid Compound ID	J6NB	08/01/23 16:40

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 570124Lab Sample ID: STD1 280-570124/14 IC Client Sample ID: _____Date Analyzed: 03/29/22 17:08 Lab File ID: R3108.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tert-butyl ethyl ether	3.91	Incomplete Integration	peppinga	03/29/22 18:29
Tert-amyl methyl ether	4.75	Incomplete Integration	peppinga	03/29/22 18:30

Lab Sample ID: STD5 280-570124/16 IC Client Sample ID: _____Date Analyzed: 03/29/22 17:51 Lab File ID: R3110.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl ether	3.66	Incomplete Integration	peppinga	03/29/22 18:31

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 621220Lab Sample ID: IC 280-621220/13 Client Sample ID: _____Date Analyzed: 07/30/23 16:32 Lab File ID: R_6570.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexanone	8.34	Assign Peak	AF7X	07/31/23 05:45
2-Chlorotoluene	8.74	Assign Peak	AF7X	07/31/23 05:45

Lab Sample ID: IC 280-621220/14 Client Sample ID: _____Date Analyzed: 07/30/23 16:53 Lab File ID: R_6571.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexanone	8.34	Wrong peak	AF7X	07/31/23 05:46

Lab Sample ID: IC 280-621220/15 Client Sample ID: _____Date Analyzed: 07/30/23 17:14 Lab File ID: R_6572.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexanone	8.34	Wrong peak	AF7X	07/31/23 05:47

Lab Sample ID: IC 280-621220/19 Client Sample ID: _____Date Analyzed: 07/30/23 18:37 Lab File ID: R_6576.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	10.72	Split Peak	AF7X	07/31/23 05:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 621220Lab Sample ID: IC 280-621220/20 Client Sample ID: _____Date Analyzed: 07/30/23 18:58 Lab File ID: R_6577.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	2.72	Split Peak	AF7X	07/31/23 05:53
Methyl tert-butyl ether	3.26	Split Peak	AF7X	07/31/23 05:53
2-Butanone (MEK)	3.96	Split Peak	AF7X	07/31/23 05:54
Carbon tetrachloride	4.46	Split Peak	AF7X	07/31/23 05:54
n-Heptane	4.80	Assign Peak	AF7X	07/31/23 05:54
2-Chloroethyl vinyl ether	5.69	Split Peak	AF7X	07/31/23 05:55
1,1,2-Trichloroethane	6.47	Split Peak	AF7X	07/31/23 05:55
Tetrachloroethene	6.56	Split Peak	AF7X	07/31/23 05:55
2-Hexanone	6.64	Split Peak	AF7X	07/31/23 05:55
1-Chlorohexane	7.32	Split Peak	AF7X	07/31/23 05:55
m-Xylene & p-Xylene	7.55	Split Peak	AF7X	07/31/23 05:56
trans-1,4-Dichloro-2-butene	8.59	Split Peak	AF7X	07/31/23 05:56
4-Chlorotoluene	8.86	Split Peak	AF7X	07/31/23 05:56
1,2-Dibromo-3-Chloropropane	10.69	Split Peak	AF7X	07/31/23 05:57
Hexachlorobutadiene	11.66	Split Peak	AF7X	07/31/23 05:57
Naphthalene	11.80	Split Peak	AF7X	07/31/23 05:57
1,2,3-Trichlorobenzene	12.01	Split Peak	AF7X	07/31/23 05:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 621220Lab Sample ID: IC 280-621220/21 Client Sample ID: _____Date Analyzed: 07/30/23 19:19 Lab File ID: R_6578.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	3.96	Assign Peak	AF7X	07/31/23 05:58
2,2-Dichloropropane	3.98	Assign Peak	AF7X	07/31/23 05:58
sec-Butyl Alcohol	4.08	Assign Peak	AF7X	07/31/23 05:58
2-Pentanone	5.21	Assign Peak	AF7X	07/31/23 05:58
1,2-Dichloropropane	5.29	Assign Peak	AF7X	07/31/23 05:58
1,4-Dioxane	5.33	Assign Peak	AF7X	07/31/23 05:58
trans-1,3-Dichloropropene	6.30	Assign Peak	AF7X	07/31/23 05:58
1,2,3-Trichloropropane	8.59	Assign Peak	AF7X	07/31/23 05:59
trans-1,4-Dichloro-2-butene	8.59	Assign Peak	AF7X	07/31/23 05:59
Hexachlorobutadiene	11.67	Assign Peak	AF7X	07/31/23 05:59
Naphthalene	11.81	Assign Peak	AF7X	07/31/23 05:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 621621Lab Sample ID: 280-179475-9 Client Sample ID: RW-7505P-20230720Date Analyzed: 08/02/23 23:17 Lab File ID: R_6749.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	J6NB	08/02/23 23:35
Isobutyl alcohol		Invalid Compound ID	J6NB	08/02/23 23:35

Lab Sample ID: 280-179475-10 Client Sample ID: RW-7505P-Q-20230720Date Analyzed: 08/02/23 23:37 Lab File ID: R_6750.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	AF7X	08/03/23 06:00

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 621775Lab Sample ID: MB 280-621775/9 Client Sample ID: _____Date Analyzed: 08/03/23 18:17 Lab File ID: R_6792.D GC Column: DB-624 (60.25 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	J6NB	08/03/23 23:12
Acetonitrile		Invalid Compound ID	J6NB	08/03/23 23:12
Isobutyl alcohol		Invalid Compound ID	J6NB	08/03/23 23:11

Lab Sample ID: 280-179475-12 Client Sample ID: RW-2140H-20230723Date Analyzed: 08/03/23 20:14 Lab File ID: R_6797.D GC Column: DB-624 (60.25 ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	J6NB	08/03/23 23:13

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
Cal Dil Std_00202	07/10/23	07/04/23	P&T Methanol, Lot ED137-US	100 uL	MV-Gas B_00139	2 uL	Bromomethane	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					MV-MegaMain B_00087	5 uL	2-Chloroethyl vinyl ether	5 ug/mL
							Acrolein	49.375 ug/mL
							2-Butanone (MEK)	20 ug/mL
							2-Hexanone	20 ug/mL
							4-Methyl-2-pentanone (MIBK)	20 ug/mL
							Acetone	20 ug/mL
							Vinyl acetate	10 ug/mL
							Cyclohexanone	150 ug/mL
							1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dibromoethane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Allyl chloride	5 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver

Job No.: 280-179475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
							1-Chlorohexane	4 ug/mL
							2-Pentanone	16 ug/mL
							sec-Butyl Alcohol	120 ug/mL
.MV-Gas B_00139	07/26/23	06/26/23	P&T Methanol, Lot ea1899-us	12.5 mL	MV-569722.sec_00017	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723.sec_00015	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
..MV-569722.sec_00017	05/31/26		RESTEK, Lot A0197640		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..MV-569723.sec_00015	01/31/26		RESTEK, Lot A0193808		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.MV-MegaMain B_00087	07/31/23	06/29/23	P&T Methanol, Lot 181124	25 mL	MV-568720.sec_00039	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00010	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724.sec_00036	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727.sec_00012	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992.sec_00007	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver

Job No.: 280-179475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	1000 ug/mL
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
					Tetrahydrofuran	200 ug/mL		
					Toluene	100 ug/mL		
					trans-1,2-Dichloroethene	100 ug/mL		
					trans-1,3-Dichloropropene	100 ug/mL		
					trans-1,4-Dichloro-2-butene	100 ug/mL		
					Trichloroethene	100 ug/mL		
					MV-CUS17739_00015	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
..MV-568720.sec 00039	08/31/24	RESTEK, Lot A0194755			(Purchased Reagent)		Acrolein	19750 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MV-569721.sec_00010	04/30/25		RESTEK, Lot A0184721		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..MV-569724.sec_00036	04/30/24		RESTEK, Lot A0190670		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..MV-569727.sec_00012	03/21/25		RESTEK, Lot A0182847		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..MV-571992.sec_00007	06/30/23		RESTEK, Lot A0167172		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..MV-CUS17739_00015	12/31/24		Agilent, Lot 6712667		(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
Cal Di1 Std_00214	08/01/23	07/25/23	P&T Methanol, Lot ED137-US	100 uL	MV-Gas A_00161	2 uL	Bromomethane	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					MV-MegaMainA_00092	5 uL	2-Chloroethyl vinyl ether	5 ug/mL
							Acrolein	49.375 ug/mL
							2-Butanone (MEK)	20 ug/mL
							2-Hexanone	20 ug/mL
							4-Methyl-2-pentanone (MIBK)	20 ug/mL
							Acetone	20 ug/mL
							Vinyl acetate	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexanone	150 ug/mL
							1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dibromoethane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Allyl chloride	5 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
							1-Chlorohexane	4 ug/mL
							2-Pentanone	16 ug/mL
							sec-Butyl Alcohol	120 ug/mL
.MV-Gas A_00161	08/28/23	07/26/23	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00022	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723_00018	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
..MV-569722_00022	08/31/25		RESTEK, Lot A0189184		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..MV-569723_00018	01/31/26		RESTEK, Lot A0193735		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.MV-MegaMainA_00092	08/14/23	07/14/23	P&T Methanol, Lot 181124	25 mL	MV-568720_00046	1250 uL	Acrolein	987.5 ug/mL
					MV-569721_00015	800 uL	2-Butanone (MEK)	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
							Vinyl acetate	200 ug/mL
					MV-569724_00035	1000 uL	Cyclohexanone	3000 ug/mL
					MV-569727_00023	3000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
					MV-571992_00015	1000 uL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					MV-CUS17739.s_00011	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
..MV-568720_00046	07/31/24	RESTEK, Lot A0193730			(Purchased Reagent)		Acrolein	19750 ug/mL
..MV-569721_00015	01/31/26	RESTEK, Lot A0193494			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..MV-569724_00035	01/31/24	RESTEK, Lot A0187365			(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..MV-569727_00023	08/31/25	RESTEK, Lot A0189172			(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..MV-571992_00015	09/30/24	RESTEK, Lot A0183568			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	5000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
..MV-CUS17739.s_00011	05/31/24		Agilent, Lot 6676357.sec		(Purchased Reagent)		trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
MV-568718-D_00014	05/31/22		RESTEK, Lot A0127975		(Purchased Reagent)		sec-Butyl Alcohol	30000 ug/mL
							1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
MV-ARCH SS A_00098	12/13/18	06/13/18	P&T Methanol, Lot 177891	50 mL	MV-567650_00027	5 mL	TBA-d9 (IS)	5000 ug/mL
							1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MV-567650_00027	01/31/22		Restek, Lot A0124069		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MV-BFB_00026							1,2-Dichloroethene, Total	
							1,2-Dichloroethene, Total (URS)	
							1,3-Dichloropropene, Total	
							TAH	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
							Xylenes, Total (URS)	
.MV-ST5110N1_00066	10/31/19		Ultra Scientific, Lot CH-3248Z		MV-ST5110N1_00066	1.25 mL	BFB	50 ug/mL
							(Purchased Reagent)	2000 ug/mL
mv-Cent BFB_00004							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							TAH	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					mv-IS/SS Tune 00001	10 mL	BFB	50 ug/mL
.mv-IS/SS Tune 00001	11/30/23		Restek, Lot A0143593		(Purchased Reagent)		BFB	250 ug/mL
mv-Cent BFB_00005							1,2-Dichloroethane-d4 (Surr)	
							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							1,4-Dichlorobenzene-d4	
							4-Bromofluorobenzene (Surr)	
							Chlorobenzene-d5	
							Dibromofluoromethane (Surr)	
							Fluorobenzene	
							Tentatively Identified Compound	
							Toluene-d8 (Surr)	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					mv-IS/SS Tune 00001	10 mL	BFB	50 ug/mL
.mv-IS/SS Tune 00001	11/30/23		Restek, Lot A0143593		(Purchased Reagent)		BFB	250 ug/mL
mv-Cent IS_00006	07/31/23	02/24/20	P&T Methanol, Lot 1996628	5 mL	MV-568718-D_00016	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.MV-568718-D_00016	07/31/23		RESTEK, Lot A0139459		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
MV-Gas A_00156	07/10/23	06/09/23	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00021	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.MV-569722_00021	05/31/25		RESTEK, Lot A0184726		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
MV-Gas A_00159	08/18/23	07/18/23	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00022	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.MV-569722_00022	08/31/25		RESTEK, Lot A0189184		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
MV-Gas A_00160	08/28/23	07/26/23	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00022	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723_00018	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
.MV-569722_00022	08/31/25		RESTEK, Lot A0189184		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.MV-569723_00018	01/31/26		RESTEK, Lot A0193735		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
MV-Gas B_00137	07/12/23	06/12/23	P&T Methanol, Lot ea1899-us	12.5 mL	MV-569722.sec_00017	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723.sec_00014	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
.MV-569722.sec_00017	05/31/26		RESTEK, Lot A0197640		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.MV-569723.sec_00014	04/30/25		RESTEK, Lot A0184002		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
MV-Gas B_00141	08/14/23	07/14/23	P&T Methanol, Lot ea1899-us	12.5 mL	MV-569722.sec_00017	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration							
					Reagent ID	Volume Added									
							Dichlorodifluoromethane	250 ug/mL							
							Trichlorofluoromethane	250 ug/mL							
							Vinyl chloride	250 ug/mL							
.MV-569722.sec_00017	05/31/26	RESTEK, Lot A0197640			(Purchased Reagent)		Bromomethane	2500 ug/mL							
							Chloroethane	2500 ug/mL							
							Chloromethane	2500 ug/mL							
							Dichlorodifluoromethane	2500 ug/mL							
							Trichlorofluoromethane	2500 ug/mL							
							Vinyl chloride	2500 ug/mL							
MV-Gas B_00142	08/28/23	07/26/23	P&T Methanol, Lot ea1899-us	12.5 mL	MV-569722.sec_00017	1250 uL	Bromomethane	250 ug/mL							
							Chloroethane	250 ug/mL							
							Chloromethane	250 ug/mL							
							Dichlorodifluoromethane	250 ug/mL							
							Trichlorofluoromethane	250 ug/mL							
							Vinyl chloride	250 ug/mL							
.MV-569722.sec_00017	05/31/26	RESTEK, Lot A0197640			(Purchased Reagent)		Bromomethane	2500 ug/mL							
							Chloroethane	2500 ug/mL							
							Chloromethane	2500 ug/mL							
							Dichlorodifluoromethane	2500 ug/mL							
							Trichlorofluoromethane	2500 ug/mL							
							Vinyl chloride	2500 ug/mL							
mv-IS_SS_00036	04/23/22	03/23/22	P&T Methanol, Lot 198123	50 mL	MV-567650_00029	1000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL							
							4-Bromofluorobenzene (Surr)	50 ug/mL							
							Dibromofluoromethane (Surr)	50 ug/mL							
							Toluene-d8 (Surr)	50 ug/mL							
							.MV-567650_00029	05/31/26	Restek, Lot A0172587			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
														4-Bromofluorobenzene (Surr)	2500 ug/mL
Dibromofluoromethane (Surr)	2500 ug/mL														
Toluene-d8 (Surr)	2500 ug/mL														
mv-IS_SS_00064	09/25/23	06/23/23	P&T Methanol, Lot 198123	50 mL	mv-30241_00012	1000 uL	1,4-Dichlorobenzene-d4	50 ug/mL							
							Chlorobenzene-d5	50 ug/mL							
							Fluorobenzene	50 ug/mL							
					MV-567650_00030	1000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL							
							4-Bromofluorobenzene (Surr)	50 ug/mL							
							Dibromofluoromethane (Surr)	50 ug/mL							
.mv-30241_00012	05/31/27	Restek, Lot A0185733			(Purchased Reagent)		Toluene-d8 (Surr)	50 ug/mL							
							1,4-Dichlorobenzene-d4	2500 ug/mL							
							Chlorobenzene-d5	2500 ug/mL							
.MV-567650_00030	05/31/26	Restek, Lot A0172587			(Purchased Reagent)		Fluorobenzene	2500 ug/mL							
							1,2-Dichloroethane-d4 (Surr)	2500 ug/mL							
							4-Bromofluorobenzene (Surr)	2500 ug/mL							
							Dibromofluoromethane (Surr)	2500 ug/mL							
							Toluene-d8 (Surr)	2500 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
mv-IS_SS_00066	10/25/23	07/25/23	P&T Methanol, Lot 198123	50 mL	mv-30241_00012	1000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
					MV-567650_00030	1000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
.mv-30241_00012	05/31/27	Restek, Lot A0185733		(Purchased Reagent)	Toluene-d8 (Surr)	50 ug/mL		
					1,4-Dichlorobenzene-d4	2500 ug/mL		
					Chlorobenzene-d5	2500 ug/mL		
					Fluorobenzene	2500 ug/mL		
.MV-567650_00030	05/31/26	Restek, Lot A0172587		(Purchased Reagent)	1,2-Dichloroethane-d4 (Surr)	2500 ug/mL		
					4-Bromofluorobenzene (Surr)	2500 ug/mL		
					Dibromofluoromethane (Surr)	2500 ug/mL		
					Toluene-d8 (Surr)	2500 ug/mL		
MV-MegaMain B_00086	07/17/23	06/14/23	P&T Methanol, Lot 181124	25 mL	MV-568720.sec_00039	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00010	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724.sec_00036	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727.sec_00012	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992.sec_00007	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					MV-CUS17739_00015	2000 uL	1-Chlorohexane	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
.MV-568720.sec_00039	08/31/24		RESTEK, Lot A0194755		(Purchased Reagent)		Acrolein	19750 ug/mL
.MV-569721.sec_00010	04/30/25		RESTEK, Lot A0184721		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MV-569724.sec_00036	04/30/24		RESTEK, Lot A0190670		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.MV-569727.sec_00012	03/21/25		RESTEK, Lot A0182847		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.MV-571992.sec_00007	06/30/23		RESTEK, Lot A0167172		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.MV-CUS17739_00015	12/31/24	Agilent, Lot 6712667			(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
MV-MegaMain B_00086	07/17/23	06/14/23	P&T Methanol, Lot 181124	25 mL	MV-571992.sec_00007	1000 uL	Xylenes, Total	200 ug/mL
.MV-571992.sec_00007	06/30/23	RESTEK, Lot A0167172			(Purchased Reagent)		Xylenes, Total	5000 ug/mL
MV-MegaMain B_00088	08/21/23	07/19/23	P&T Methanol, Lot 181124	25 mL	MV-568720.sec_00039	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00010	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724.sec_00036	1000 uL	Vinyl acetate	200 ug/mL
					MV-571992.sec_00007	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
1,1,1-Trichloroethane	100 ug/mL							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver

Job No.: 280-179475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							2,2-Dichloropropane	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	100 ug/mL
							o-Xylene	100 ug/mL
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.MV-568720.sec_00039	08/31/24		RESTEK, Lot A0194755			(Purchased Reagent)	Acrolein	19750 ug/mL
.MV-569721.sec_00010	04/30/25		RESTEK, Lot A0184721			(Purchased Reagent)	2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MV-569724.sec_00036	04/30/24		RESTEK, Lot A0190670		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.MV-571992.sec_00007	06/30/23		RESTEK, Lot A0167172		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
MV-MegaMainA_00091	07/24/23	06/23/23	P&T Methanol, Lot 181124	25 mL	MV-568720_00046	1250 uL	Acrolein	987.5 ug/mL
					MV-569721_00015	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724_00035	1000 uL	Vinyl acetate	200 ug/mL
					MV-571992_00015	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							2,2-Dichloropropane	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	100 ug/mL
							o-Xylene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
							Xylenes, Total	200 ug/mL
.MV-568720_00046	07/31/24		RESTEK, Lot A0193730		(Purchased Reagent)		Acrolein	19750 ug/mL
.MV-569721_00015	01/31/26		RESTEK, Lot A0193494		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MV-569724_00035	01/31/24		RESTEK, Lot A0187365		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.MV-571992_00015	09/30/24		RESTEK, Lot A0183568		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichloropropene	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropene	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropene	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							2,2-Dichloropropene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							o-Xylene	2500 ug/mL
							Styrene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
							Xylenes, Total	5000 ug/mL
MV-MegaMainA_00092	08/14/23	07/14/23	P&T Methanol, Lot 181124	25 mL	MV-568720_00046	1250 uL	Acrolein	987.5 ug/mL
					MV-569721_00015	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724_00035	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727_00023	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992_00015	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
					Styrene	100 ug/mL		
					tert-Butylbenzene	100 ug/mL		
					Tetrachloroethene	100 ug/mL		
					Tetrahydrofuran	200 ug/mL		
					Toluene	100 ug/mL		
					trans-1,2-Dichloroethene	100 ug/mL		
					trans-1,3-Dichloropropene	100 ug/mL		
					trans-1,4-Dichloro-2-butene	100 ug/mL		
					Trichloroethene	100 ug/mL		
					MV-CUS17739.s_00011	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MV-568720_00046	07/31/24		RESTEK, Lot A0193730		(Purchased Reagent)		Acrolein	19750 ug/mL
.MV-569721_00015	01/31/26		RESTEK, Lot A0193494		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MV-569724_00035	01/31/24		RESTEK, Lot A0187365		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.MV-569727_00023	08/31/25		RESTEK, Lot A0189172		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.MV-571992_00015	09/30/24		RESTEK, Lot A0183568		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.MV-CUS17739.s_00011	05/31/24		Agilent, Lot 6676357.sec		(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
MV-MegaMainA_00092	08/14/23	07/14/23	P&T Methanol, Lot 181124	25 mL	MV-571992_00015	1000 uL	Xylenes, Total	200 ug/mL
.MV-571992_00015	09/30/24		RESTEK, Lot A0183568		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
MV-Supp A_00030	08/19/18	05/12/18	P&T Methanol, Lot 12799	10 mL	mv-570808_00004	160 uL	Chloroprene	40 ug/mL
							Methacrylonitrile	400 ug/mL
					mv-570809_00004	160 uL	Methyl methacrylate	80 ug/mL
					mv-571993_00001	160 uL	Acetonitrile	400 ug/mL
							Propionitrile	400 ug/mL
.mv-570808_00004	05/31/19		Restek, Lot A0132816		(Purchased Reagent)		Chloroprene	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
.mv-570809_00004	04/30/19		Restek, Lot A0131668		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
.mv-571993_00001	12/31/18		RESTEK, Lot A0123796		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver

Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MV-Supp A_00064	04/02/22	03/02/22	P&T Methanol, Lot 199628	30 mL	mv-570808_00013	600 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Chloroprene	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					mv-570809_00011	600 uL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					mv-571993_00007	600 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
.mv-570808_00013	04/30/23		Restek, Lot A0177095		mv-571994_00008	900 uL	Ethanol	3000 ug/mL
							cis-1,4-Dichloro-2-butene	100 ug/mL
					mv-VO-TAOH-5_00013	3000 uL	(Purchased Reagent)	1,2,3-Trimethylbenzene
							(Purchased Reagent)	2500 ug/mL
							(Purchased Reagent)	2500 ug/mL
							(Purchased Reagent)	5000 ug/mL
							(Purchased Reagent)	2500 ug/mL
							(Purchased Reagent)	25000 ug/mL
							(Purchased Reagent)	25000 ug/mL
							(Purchased Reagent)	62500 ug/mL
							(Purchased Reagent)	5000 ug/mL
							(Purchased Reagent)	5000 ug/mL
.mv-570809_00011	12/31/22		Restek, Lot A0173205				(Purchased Reagent)	Ethyl acetate
.mv-571993_00007	06/30/23		RESTEK, Lot A0172903				(Purchased Reagent)	Methyl methacrylate
							(Purchased Reagent)	Acetonitrile
							(Purchased Reagent)	Isopropyl ether
							(Purchased Reagent)	Propionitrile
							(Purchased Reagent)	25000 ug/mL
							(Purchased Reagent)	2500 ug/mL
							(Purchased Reagent)	2500 ug/mL
.mv-571994_00008	03/31/24		RESTEK, Lot A0169978				(Purchased Reagent)	Tert-amyl methyl ether
.mv-VO-TAOH-5_00013	06/12/22		SPEX, Lot CP211214011				(Purchased Reagent)	Tert-butyl ethyl ether
							(Purchased Reagent)	Ethanol
							(Purchased Reagent)	100000 ug/mL
							(Purchased Reagent)	cis-1,4-Dichloro-2-butene
							(Purchased Reagent)	1000 ug/mL
MV-Supp A_00083	08/31/23	06/28/23	P&T Methanol, Lot 199628	20 mL	mv-570808_00015	400 uL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
					mv-570809_00013	400 uL	Acetonitrile	500 ug/mL
					mv-571993_00008	400 uL	Propionitrile	500 ug/mL
.mv-570808_00015	11/30/23		Restek, Lot A0184916				(Purchased Reagent)	Chloroprene
							(Purchased Reagent)	2500 ug/mL
.mv-570809_00013	03/31/24		Restek, Lot A0189215				(Purchased Reagent)	Methacrylonitrile
.mv-571993_00008	03/31/24		RESTEK, Lot A0183035				(Purchased Reagent)	25000 ug/mL
							(Purchased Reagent)	Methyl methacrylate
							(Purchased Reagent)	5000 ug/mL
							(Purchased Reagent)	Acetonitrile
							(Purchased Reagent)	25000 ug/mL
MV-Supp B_00020	08/19/18	03/04/18	P&T Methanol, Lot 127999	10 mL	mv-570808.sec_00002	160 uL	Chloroprene	40 ug/mL
							Methacrylonitrile	400 ug/mL
					mv-570809.sec_00002	160 uL	Methyl methacrylate	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					mv-571993.sec_00001	160 uL	Acetonitrile	400 ug/mL
							Propionitrile	400 ug/mL
.mv-570808.sec_00002	09/30/18		Restek, Lot A0126195		(Purchased Reagent)		Chloroprene	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
.mv-570809.sec_00002	10/31/18		Restek, Lot A0126533		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
.mv-571993.sec_00001	12/31/18		RESTEK, Lot A0123771		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL
MV-Supp B_00048	04/15/22	03/15/22	P&T Methanol, Lot 127999	20 mL	mv-570808.sec_00007	400 uL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
					mv-570809.sec_00008	400 uL	Methyl methacrylate	100 ug/mL
					mv-571993.sec_00007	400 uL	Acetonitrile	500 ug/mL
							Propionitrile	500 ug/mL
.mv-570808.sec_00007	10/31/22		Restek, Lot A0171439		(Purchased Reagent)		Chloroprene	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
.mv-570809.sec_00008	10/31/22		Restek, Lot A0171207		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
.mv-571993.sec_00007	03/31/23		RESTEK, Lot A0170862		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL
MV-Supp B_00062	10/31/23	03/23/23	P&T Methanol, Lot 127999	20 mL	mv-570808.sec_00008	400 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Chloroprene	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					mv-570809.sec_00010	400 uL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					mv-571993.sec_00008	400 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					mv-571994.sec_00007	600 uL	Ethanol	3000 ug/mL
					Z-020209-01.b_00001	2000 uL	cis-1,4-Dichloro-2-butene	100 ug/mL
.mv-570808.sec_00008	10/31/23		Restek, Lot A0183834		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Chloroprene	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.mv-570809.sec_00010	10/31/23		Restek, Lot A0183813		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
.mv-571993.sec_00008	09/30/24		RESTEK, Lot A0189867		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.mv-571994.sec_00007	06/30/25		RESTEK, Lot A0186688		(Purchased Reagent)		Ethanol	100000 ug/mL
.Z-020209-01.b_00001	08/30/24		CPI, Lot 488067		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	1000 ug/mL
MV-Supp B_00064	10/31/23	06/21/23	P&T Methanol, Lot 127999	20 mL	mv-570808.sec_00009	400 uL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
					mv-570809.sec_00010	400 uL	Methyl methacrylate	100 ug/mL
					mv-571993.sec_00008	400 uL	Acetonitrile	500 ug/mL
.mv-570808.sec_00009	07/31/24		Restek, Lot A0193865		(Purchased Reagent)		Propionitrile	500 ug/mL
							Chloroprene	2500 ug/mL
.mv-570809.sec_00010	10/31/23		Restek, Lot A0183813		(Purchased Reagent)		Methacrylonitrile	25000 ug/mL
.mv-571993.sec_00008	09/30/24		RESTEK, Lot A0189867		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
							Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL

Reagent

mv-30241_00012



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30241 Lot No.: A0185733
Description : 8260A Internal Standard Mix
8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : May 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Fluorobenzene	2,504.0 µg/mL	+/-	14.5585	µg/mL	Gravimetric
	CAS # 462-06-6 (Lot BCBZ5549)		+/-	140.3968	µg/mL	Unstressed
	Purity 99%		+/-	143.6819	µg/mL	Stressed
2	Chlorobenzene-d5	2,508.0 µg/mL	+/-	14.5817	µg/mL	Gravimetric
	CAS # 3114-55-4 (Lot PR-29571)		+/-	140.6211	µg/mL	Unstressed
	Purity 99%		+/-	143.9114	µg/mL	Stressed
3	1,4-Dichlorobenzene-d4	2,500.6 µg/mL	+/-	14.5387	µg/mL	Gravimetric
	CAS # 3855-82-1 (Lot PR-30447)		+/-	140.2062	µg/mL	Unstressed
	Purity 99%		+/-	143.4868	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Rec'd
9/11/22
8/11/22

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

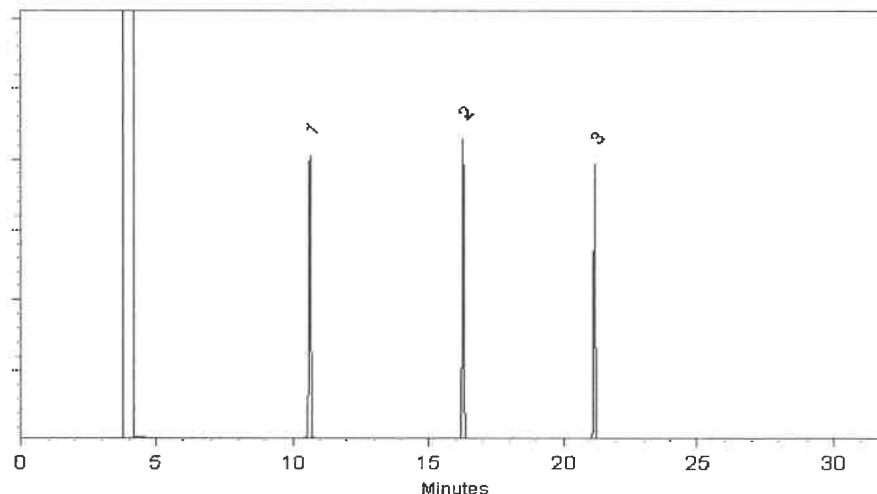
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 26-May-2022

Balance: B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 31-May-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-567650_00027



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0124069
Description : 8260 Surrogate Standard
8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound			Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Dibromofluoromethane			2,521.2	µg/mL	+/-	14.6582	µg/mL	Gravimetric
	CAS #	1868-53-7	(Lot 0012016)			+/-	141.3584	µg/mL	Unstressed
	Purity	99%				+/-	144.6660	µg/mL	Stressed
2	1,2-Dichloroethane-d4			2,513.8	µg/mL	+/-	14.6157	µg/mL	Gravimetric
	CAS #	17060-07-0	(Lot PR-25433)			+/-	140.9489	µg/mL	Unstressed
	Purity	98%				+/-	144.2469	µg/mL	Stressed
3	Toluene-d8			2,519.4	µg/mL	+/-	14.6480	µg/mL	Gravimetric
	CAS #	2037-26-5	(Lot PR-27311)			+/-	141.2603	µg/mL	Unstressed
	Purity	99%				+/-	144.5656	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)			2,520.8	µg/mL	+/-	14.6559	µg/mL	Gravimetric
	CAS #	460-00-4	(Lot 20401KOV)			+/-	141.3360	µg/mL	Unstressed
	Purity	99%				+/-	144.6430	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

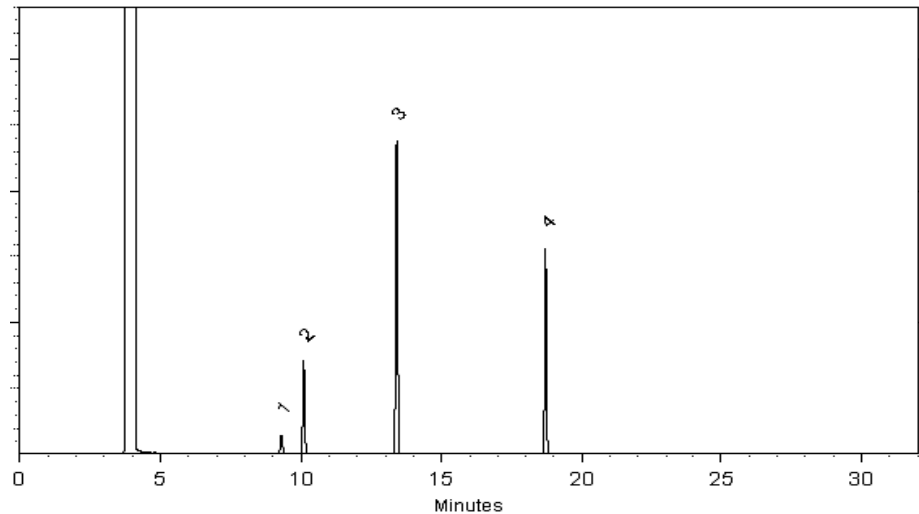
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Isaiah Harrison - Mix Technician

Date Mixed: 09-Jan-2017 **Balance:** 1128342314


Amanda Miller - Operations Tech-ARM QC

Date Passed: 11-Jan-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MV-567650_00029



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0172587
Description : 8260 Surrogate Standard
8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : May 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

Rec'd
11/15/21
Gm

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dibromofluoromethane CAS # 1868-53-7 (Lot 012021) Purity 99%	2,510.9 µg/mL	+/- 14.5983 µg/mL Gravimetric +/- 140.7809 µg/mL Unstressed +/- 144.0750 µg/mL Stressed
2	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot PR-29377) Purity 99%	2,518.0 µg/mL	+/- 14.6399 µg/mL Gravimetric +/- 141.1818 µg/mL Unstressed +/- 144.4852 µg/mL Stressed
3	Toluene-d8 CAS # 2037-26-5 (Lot PR-31750) Purity 99%	2,500.4 µg/mL	+/- 14.5375 µg/mL Gravimetric +/- 140.1949 µg/mL Unstressed +/- 143.4753 µg/mL Stressed
4	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KO) Purity 99%	2,520.9 µg/mL	+/- 14.6567 µg/mL Gravimetric +/- 141.3444 µg/mL Unstressed +/- 144.6516 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

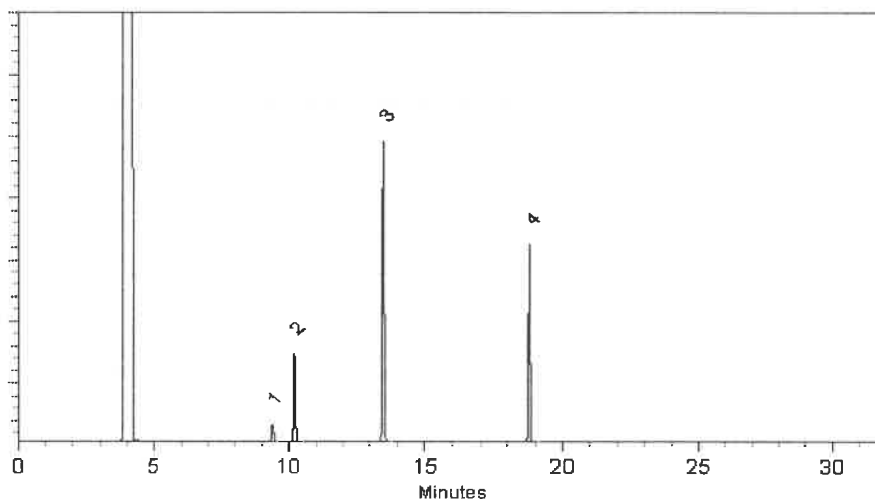
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 19-May-2021

Balance: B707717271

Alexis Shelow - Operations Tech I

Date Passed: 21-May-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-567650_00030



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0172587

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dibromofluoromethane CAS # 1868-53-7 (Lot 012021) Purity 99%	2,510.9 µg/mL	+/- 14.5983 µg/mL Gravimetric +/- 140.7809 µg/mL Unstressed +/- 144.0750 µg/mL Stressed
2	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot PR-29377) Purity 99%	2,518.0 µg/mL	+/- 14.6399 µg/mL Gravimetric +/- 141.1818 µg/mL Unstressed +/- 144.4852 µg/mL Stressed
3	Toluene-d8 CAS # 2037-26-5 (Lot PR-31750) Purity 99%	2,500.4 µg/mL	+/- 14.5375 µg/mL Gravimetric +/- 140.1949 µg/mL Unstressed +/- 143.4753 µg/mL Stressed
4	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KO) Purity 99%	2,520.9 µg/mL	+/- 14.6567 µg/mL Gravimetric +/- 141.3444 µg/mL Unstressed +/- 144.6516 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*Rec'd
4/2/22
JH*

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

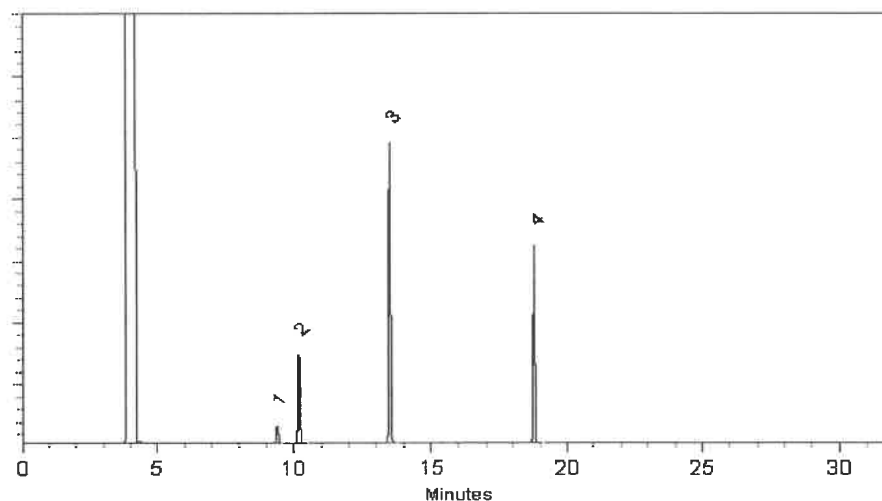
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 19-May-2021

Balance: B707717271

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 21-May-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-568718-D_00014



110 Benner Circle
Bellefonte, PA 16823-8812
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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 Lot No.: A0127975

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL Pkg Amt: > 5 mL

Expiration Date : May 31, 2022 Storage: 0°C or colder

rec'd 3/1/18

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 Purity 99% (Lot I-201)	5,022.1 µg/mL	+/- 29.1976 µg/mL +/- 107.5241 µg/mL +/- 110.6500 µg/mL	Gravimetric Unstressed Stressed
2	2-Butanone-d5 CAS # 24313-50-6 Purity 99% (Lot M-276)	1,257.5 µg/mL	+/- 7.3114 µg/mL +/- 26.9239 µg/mL +/- 27.7067 µg/mL	Gravimetric Unstressed Stressed
3	Fluorobenzene CAS # 462-06-6 Purity 99% (Lot BCBK8171V)	250.8 µg/mL	+/- 1.4613 µg/mL +/- 5.3699 µg/mL +/- 5.5259 µg/mL	Gravimetric Unstressed Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 Purity 99% (Lot I-19942)	5,009.4 µg/mL	+/- 29.1236 µg/mL +/- 107.2514 µg/mL +/- 110.3694 µg/mL	Gravimetric Unstressed Stressed
5	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99% (Lot PR-21944)	251.7 µg/mL	+/- 1.4666 µg/mL +/- 5.3891 µg/mL +/- 5.5458 µg/mL	Gravimetric Unstressed Stressed
6	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 Purity 99% (Lot PR-18488)	251.3 µg/mL	+/- 1.4645 µg/mL +/- 5.3813 µg/mL +/- 5.5377 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

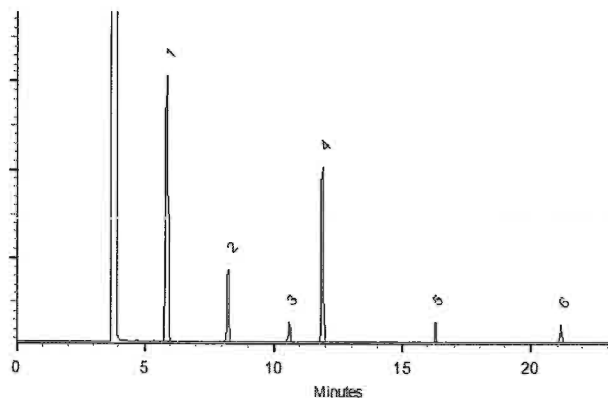
200°C

Det. Temp:

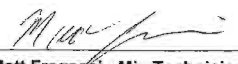
250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Matt Fragassi - Mix Technician

Date Mixed: 30-May-2017 **Balance:** 1128342314


Justine Albartson - Operations Tech-ARM QC

Date Passed: 06-Jun-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MV-568718-D_00016



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 **Lot No.:** A0139459
Description : 8260 Internal Standard 2014
8260 Internal Standard 2014 250-5,000µg/mL, P&T Methanol/Water (90:10), 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : July 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 (Lot CD-107) Purity 98%	5,018.0 µg/mL	+/- 29.1735 µg/mL Gravimetric +/- 107.4354 µg/mL Unstressed +/- 110.5588 µg/mL Stressed
2	2-Butanone-d5 CAS # 24313-50-6 (Lot M-276) Purity 99%	1,253.8 µg/mL	+/- 7.2897 µg/mL Gravimetric +/- 26.8440 µg/mL Unstressed +/- 27.6244 µg/mL Stressed
3	Fluorobenzene CAS # 462-06-6 (Lot BCBK8171V) Purity 99%	250.1 µg/mL	+/- 1.4575 µg/mL Gravimetric +/- 5.3556 µg/mL Unstressed +/- 5.5112 µg/mL Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 (Lot I-19942) Purity 99%	5,004.8 µg/mL	+/- 29.0965 µg/mL Gravimetric +/- 107.1519 µg/mL Unstressed +/- 110.2670 µg/mL Stressed
5	Chlorobenzene-d5 CAS # 3114-55-4 (Lot PR-23926) Purity 99%	250.4 µg/mL	+/- 1.4589 µg/mL Gravimetric +/- 5.3609 µg/mL Unstressed +/- 5.5167 µg/mL Stressed
6	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-18488) Purity 99%	250.6 µg/mL	+/- 1.4604 µg/mL Gravimetric +/- 5.3663 µg/mL Unstressed +/- 5.5222 µg/mL Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

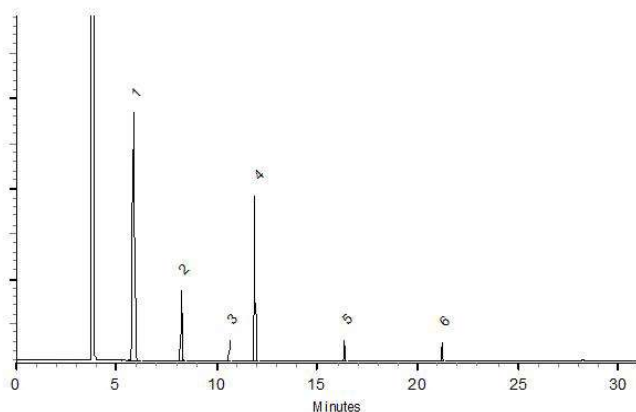
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Matt Fragassi - Mix Technician

Date Mixed: 09-Jul-2018

Balance: 1128342314


Justine Albertson - Operations Tech-ARM QC

Date Passed: 10-Aug-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MV-568720.sec_00039



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720.SEC Lot No.: A0194755
Description : 8260 List 1/Std #5 Acrolein High
8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul
Container Size : 2-mL Pkg Amt: > 1 mL
Expiration Date : August 31, 2024 Storage: -20°C or colder
Handling: This product is photosensitive. Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Acrolein	107-02-8	SEC RD211004S	98%	19,750.9 µg/mL	+/- 580.2420

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

5/5/23

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

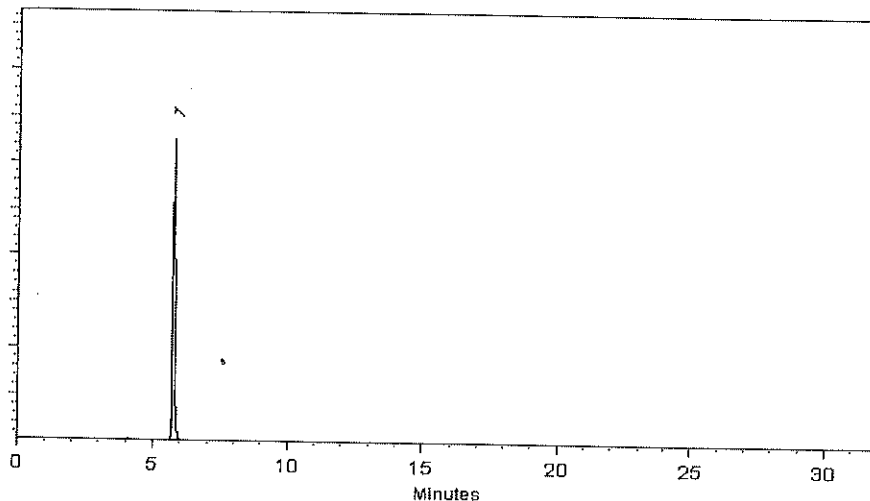
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2023

Balance Serial # 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 20-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-568720_00046



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 Lot No.: A0193730

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : July 31, 2024 Storage: -20°C or colder

Handling: This product is photosensitive. Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acrolein	107-02-8	RD221019	99%	19,924.7 µg/mL	+/- 585.3463

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

Handwritten signature and date: 5/5/23

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

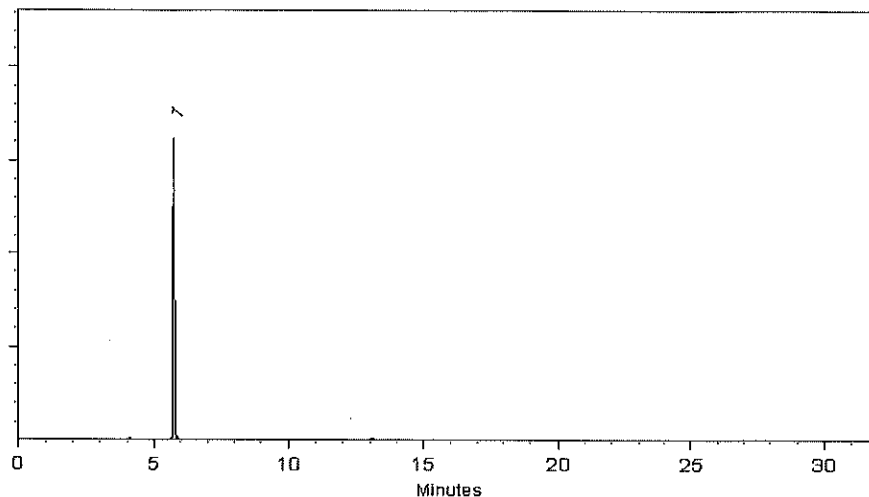
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 19-Jan-2023

Balance Serial # 1128360905

Christie Mills - Operations Tech II - ARM QC

Date Passed: 20-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569721.sec_00010



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0184721

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetone CAS # 67-64-1.SEC (Lot T20G008) Purity 99%	12,520.4 µg/mL	+/- 73.3097 µg/mL Gravimetric +/- 755.4610 µg/mL Unstressed +/- 757.2544 µg/mL Stressed
2	2-Butanone (MEK) CAS # 78-93-3.SEC (Lot HDLUO) Purity 99%	12,520.8 µg/mL	+/- 73.3120 µg/mL Gravimetric +/- 755.4852 µg/mL Unstressed +/- 757.2786 µg/mL Stressed
3	4-Methyl-2-pentanone (MIBK) CAS # 108-10-1.SEC (Lot E29T040) Purity 99%	12,514.8 µg/mL	+/- 73.2769 µg/mL Gravimetric +/- 755.1231 µg/mL Unstressed +/- 756.9157 µg/mL Stressed
4	2-Hexanone CAS # 591-78-6.SEC (Lot Y3TUO) Purity 99%	12,514.0 µg/mL	+/- 73.2722 µg/mL Gravimetric +/- 755.0749 µg/mL Unstressed +/- 756.8673 µg/mL Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Handwritten signature and date: 12/5/22

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

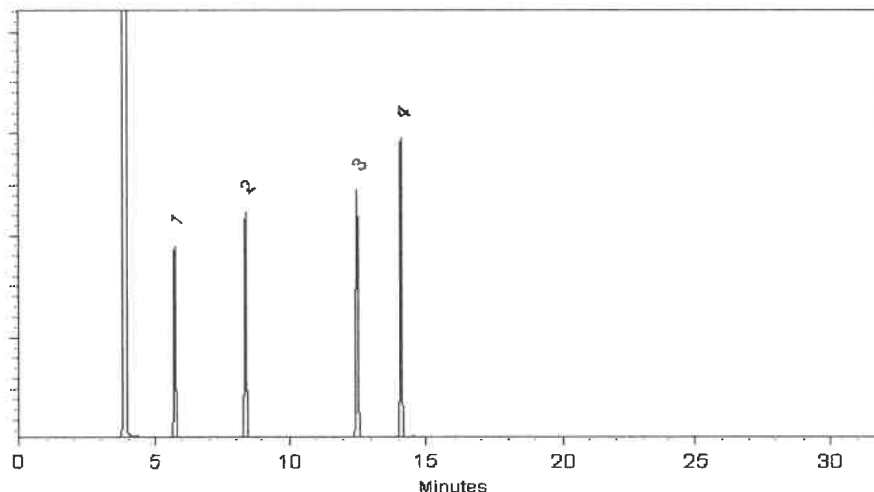
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 29-Apr-2022

Balance: B345965662

Christie Mills - Operations Technician II

Date Passed: 03-May-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569721_00015



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721

Lot No.: A0193494

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL

Expiration Date : January 31, 2026

Pkg Amt: > 1 mL

Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	12,581.8 µg/mL	+/- 434.7671
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	12,578.5 µg/mL	+/- 434.6548
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	12,602.3 µg/mL	+/- 435.4755
4	2-Hexanone	591-78-6	MKCQ6663	99%	12,587.5 µg/mL	+/- 434.9658

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

9/5/23

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psl.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

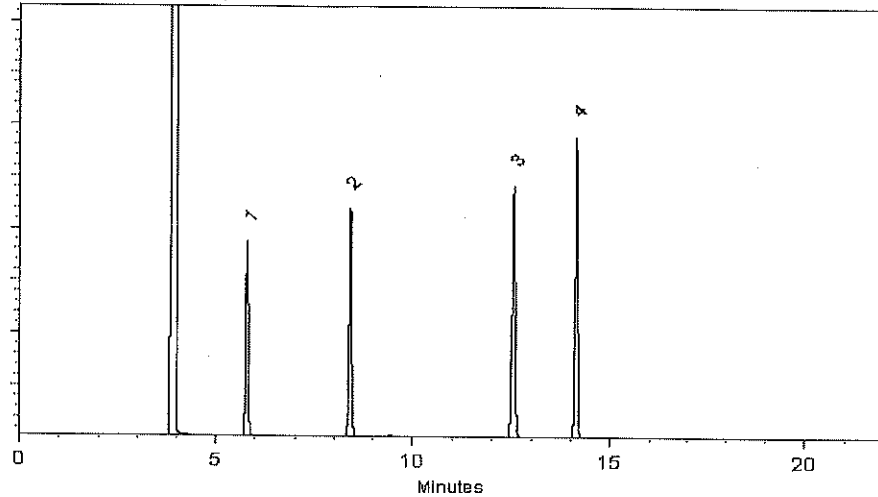
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery
Bethany Lowery - Operations Tech I

Date Mixed: 12-Jan-2023

Balance Serial # B251644995

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

Manufactured under Restek's ISO 9001:2015
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Reagent

MV-569722.sec_00017



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722.SEC Lot No.: A0197640

Description : 8260 List 1 / Std #3 Gases (2015)
8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : May 31, 2026 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8.SEC	28302	99%	2,519.8 µg/mL	+/- 142.0069
2	Chloromethane (methyl chloride)	74-87-3.SEC	00016950	99%	2,503.3 µg/mL	+/- 142.0942
3	Vinyl chloride	75-01-4.SEC	MKBBK6872V	99%	2,508.3 µg/mL	+/- 141.4767
4	1,3-Butadiene	106-99-0.SEC	26996	99%	2,521.0 µg/mL	+/- 142.1930
5	Bromomethane (methyl bromide)	74-83-9.SEC	00017022	99%	2,516.4 µg/mL	+/- 141.9614
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00004202	98%	2,532.0 µg/mL	+/- 143.0282
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14150400	90%	2,502.0 µg/mL	+/- 140.5515
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,524.7 µg/mL	+/- 143.6054

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Revised 5/11/23

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

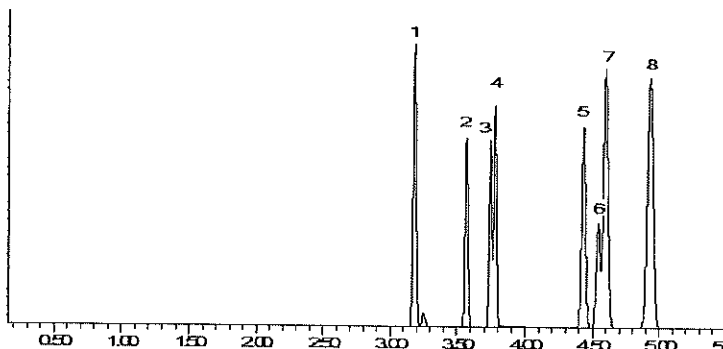
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe
Lane Kibe - Mix Technician

Date Mixed: 02-May-2023 Balance Serial # 1128342314

Marlina Cowan
Marlina Cowan - Operations Tech II ARM QC

Date Passed: 09-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569722_00021



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0184726

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12) CAS # 75-71-8 (Lot 00012554) Purity 99%	2,500.0 µg/mL	+/- 20.3317 µg/mL Gravimetric +/- 140.8938 µg/mL Unstressed +/- 144.1574 µg/mL Stressed
2	Chloromethane (methyl chloride) CAS # 74-87-3 (Lot SHBK6571) Purity 99%	2,500.5 µg/mL	+/- 22.8144 µg/mL Gravimetric +/- 141.3009 µg/mL Unstressed +/- 144.5566 µg/mL Stressed
3	Vinyl chloride CAS # 75-01-4 (Lot 00015559) Purity 99%	2,500.7 µg/mL	+/- 23.2251 µg/mL Gravimetric +/- 141.3788 µg/mL Unstressed +/- 144.6333 µg/mL Stressed
4	1,3-Butadiene CAS # 106-99-0 (Lot 00019375) Purity 99%	2,500.4 µg/mL	+/- 17.6053 µg/mL Gravimetric +/- 140.5467 µg/mL Unstressed +/- 143.8191 µg/mL Stressed
5	Bromomethane (methyl bromide) CAS # 74-83-9 (Lot 101604) Purity 99%	2,500.2 µg/mL	+/- 24.0992 µg/mL Gravimetric +/- 141.4970 µg/mL Unstressed +/- 144.7475 µg/mL Stressed
6	Chloroethane (ethyl chloride) CAS # 75-00-3 (Lot 107-401039114-1) Purity 99%	2,500.1 µg/mL	+/- 23.0388 µg/mL Gravimetric +/- 141.3109 µg/mL Unstressed +/- 144.5651 µg/mL Stressed
7	Dichlorofluoromethane (CFC-21) CAS # 75-43-4 (Lot 12841600) Purity 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL Gravimetric +/- 140.1725 µg/mL Unstressed +/- 143.4524 µg/mL Stressed

Rec'd 8/28/20

8	Trichlorofluoromethane (CFC-11)	2,500.7 µg/mL	+/- 25.4684	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot MKCL8411)		+/- 141.7630	µg/mL	Unstressed
	Purity 99%		+/- 145.0087	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:
 60m x 0.25mm x 1.4µm
 Rtx-502.2 (cat.#10916)

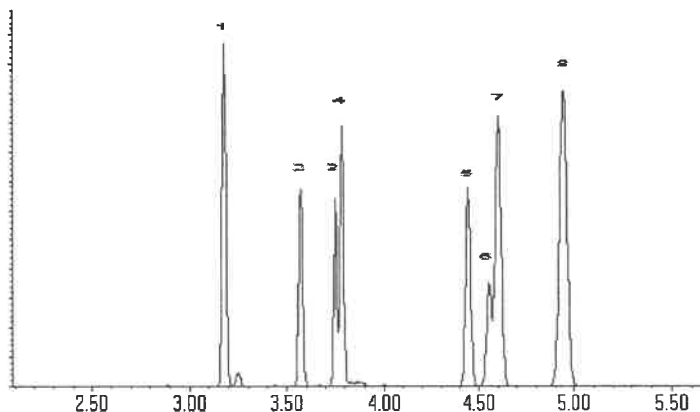
Carrier Gas:
 helium-constant pressure 30 psi

Temp. Program:
 40°C (hold 2 min.) to 240°C
 @ 8°C/min. (hold 5 min.)

Inj. Temp:
 200°C

Det. Temp:
 250°C

Det. Type:
 MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis
 Cathleen Soltis - Mix Technician

Date Mixed: 01-May-2022 **Balance:** B251644995

Christie Mills
 Christie Mills - Operations Technician II

Date Passed: 12-May-2022

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

Reagent

MV-569722_00022



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 569722 **Lot No.:** A0189184

Description: 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL **Pkg Amt:** > 1 mL

Expiration Date: August 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dichlorodifluoromethane (CFC-12)	2,500.3 µg/mL	+/-	18.6878	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/-	140.6792	µg/mL	Unstressed
	Purity 99%		+/-	143.9483	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.0 µg/mL	+/-	17.9318	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/-	140.5648	µg/mL	Unstressed
	Purity 99%		+/-	143.8357	µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/-	20.7208	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/-	140.9576	µg/mL	Unstressed
	Purity 99%		+/-	144.2201	µg/mL	Stressed
4	1,3-Butadiene	2,499.9 µg/mL	+/-	18.9759	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/-	140.6968	µg/mL	Unstressed
	Purity 99%		+/-	143.9645	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,500.1 µg/mL	+/-	19.8264	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/-	140.8262	µg/mL	Unstressed
	Purity 99%		+/-	144.0915	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.6 µg/mL	+/-	23.7833	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/-	141.4639	µg/mL	Unstressed
	Purity 99%		+/-	144.7161	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 12841600)		+/-	140.1725	µg/mL	Unstressed
	Purity 99%		+/-	143.4524	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)	2,500.3	µg/mL	+/-	18.9529	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot MKCL8411)			+/-	140.7175	µg/mL	Unstressed
	Purity 99%			+/-	143.9858	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

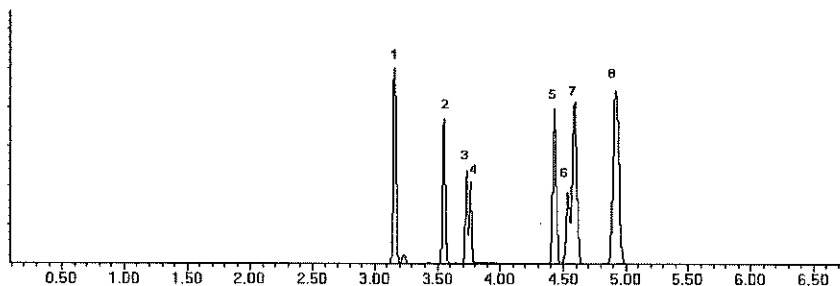
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 31-Aug-2022 **Balance:** B251644995

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 14-Sep-2022

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397

Reagent

MV-569723.sec_00014



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Catalog No. : 569723.SEC **Lot No.:** A0184002

Description : 8260 List 1 / Std #4 2-CEVE (2015)
8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether CAS # 110-75-8.SEC (Lot AMBTF) Purity 99%	2,494.0 µg/mL	+/- 14.6362 µg/mL Gravimetric +/- 53.4339 µg/mL Unstressed +/- 54.9852 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Rec'd
8/22/22
Jm

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

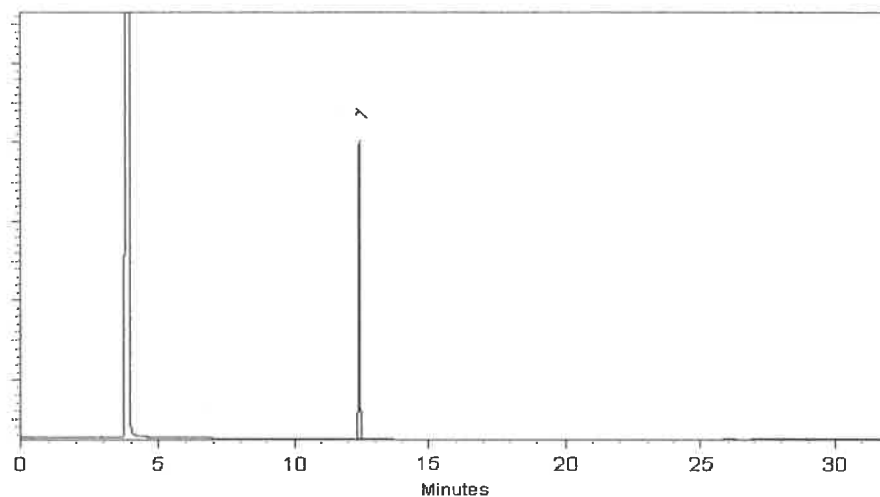
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Whitney Bennett - Operation Tech I

Date Mixed: 12-Apr-2022

Balance: 1127510105

Christie Mills - Operations Technician II

Date Passed: 14-Apr-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569723.sec_00015



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723.SEC Lot No.: A0193808
Description : 8260 List 1 / Std #4 2-CEVE (2015)
8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol,
1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : January 31, 2026 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether	110-75-8.SEC AMBTF		99%	2,513.3 µg/mL	+/- 31.2789

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

level
5/1/23
JH

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Quality Confirmation Test

Column:

185m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

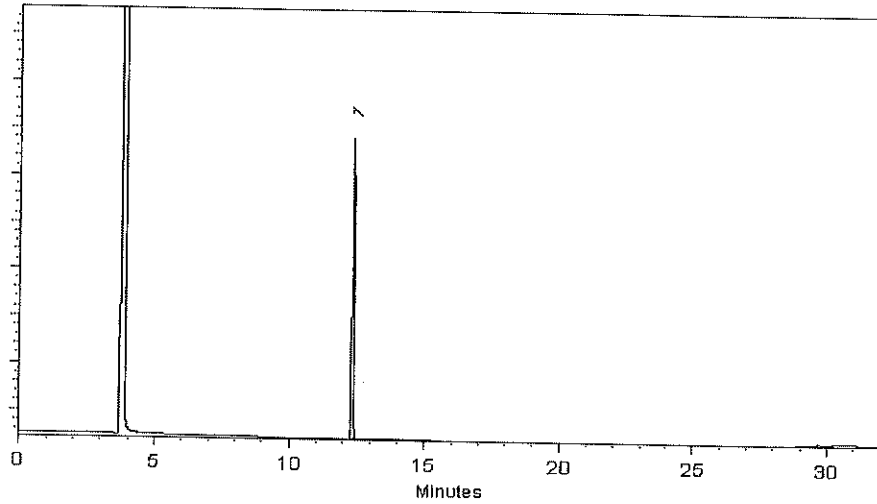
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 20-Jan-2023

Balance Serial # 1127510105

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569723_00018



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723

Lot No.: A0193735

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL

Expiration Date : January 31, 2026

Pkg Amt: > 1 mL

Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether	110-75-8	MKCK6742	99%	2,500.0 µg/mL	+/- 31.1129

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

5/1/23
JW -00018

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

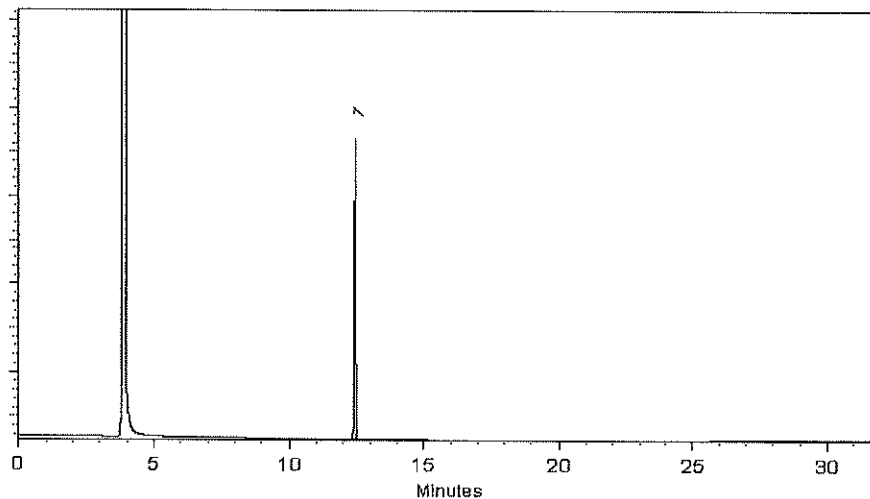
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 19-Jan-2023

Balance Serial # B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 23-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569724.sec_00036



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724.SEC **Lot No.:** A0190670

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Vinyl acetate	5,024.0 µg/mL	+/- 29.4836 µg/mL Gravimetric
	CAS # 108-05-4.SEC (Lot 190320CGKJ)		+/- 303.1467 µg/mL Unstressed
	Purity 99%		+/- 303.8663 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Rec'd 5/4/23

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

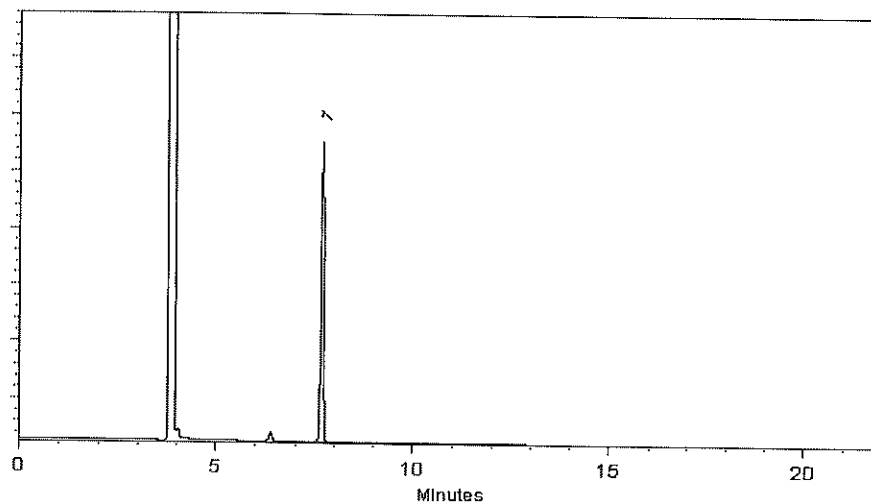
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 18-Oct-2022

Balance: 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569724_00035



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 Lot No.: A0187365
Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)
8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : January 31, 2024 Storage: -20°C or colder
Handling: This product is photosensitive. Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Vinyl acetate	5,022.0 µg/mL	+/- 29.4049 µg/mL Gravimetric
	CAS # 108-05-4 (Lot RD220630)		+/- 303.0195 µg/mL Unstressed
	Purity 99%		+/- 303.7388 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Rec'd
12/30/22
JH

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

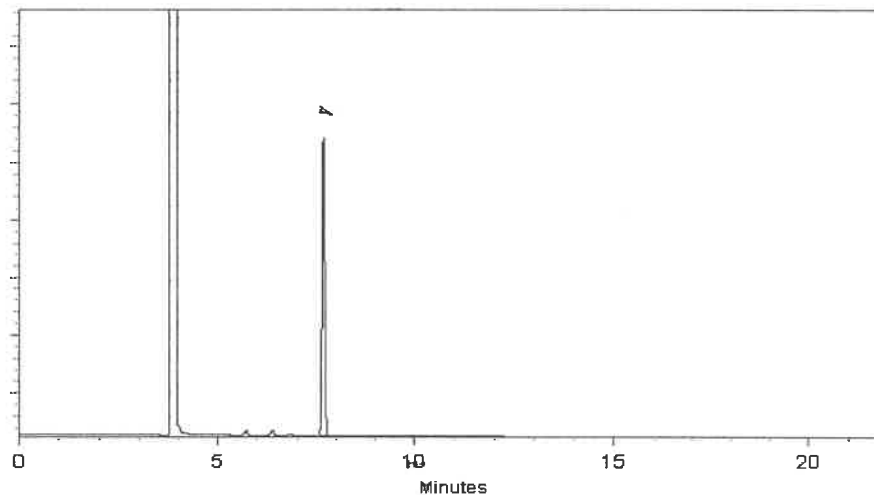
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 15-Jul-2022

Balance: B707717271

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 21-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569727.sec_00012



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569727.SEC **Lot No.:** A0182847

Description : 8260 List 2/ Std #3 Cyclohexanone (2015)

8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Cyclohexanone	25,032.7 µg/mL	+/- 146.5718 µg/mL Gravimetric
	CAS # 108-94-1.SEC (Lot GA3TF)		+/- 1,510.4313 µg/mL Unstressed
	Purity 99%		+/- 1,514.0168 µg/mL Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Rec'd
7-12-22
cas

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

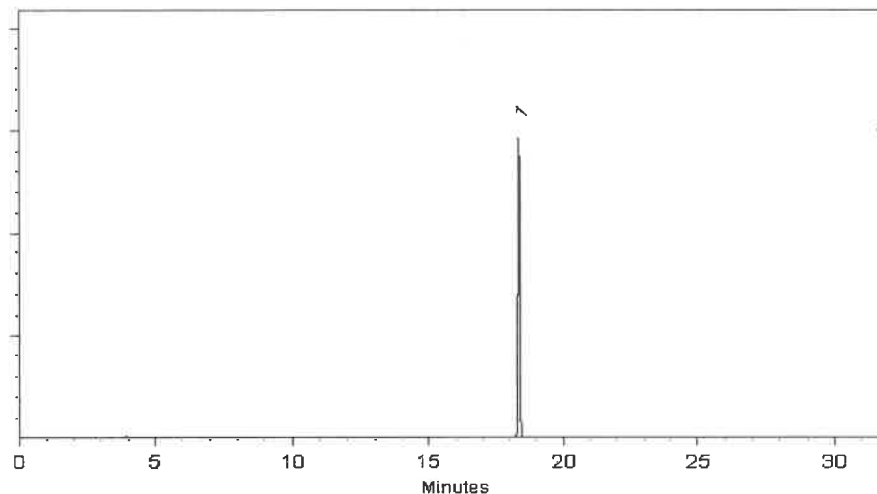
200°C

Det. Temp:

250°C

Det. Type:

FID

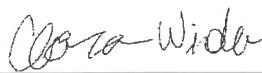


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Jess Hoy - Operations Tech I

Date Mixed: 14-Mar-2022

Balance: 1128342314


Clara Windle - Operations Technician I

Date Passed: 18-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569727_00023



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569727 Lot No.: A0189172
Description : 8260 List 2/ Std #3 Cyclohexanone (2015)
8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date: August 31, 2025 Storage: 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Cyclohexanone CAS # 108-94-1 Purity 99% (Lot MKCC7732)	25,035.3 µg/mL	+/- 146.5874 µg/mL Gravimetric +/- 1,510.5922 µg/mL Unstressed +/- 1,514.1781 µg/mL Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Rec'd
5/4/23

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psl.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

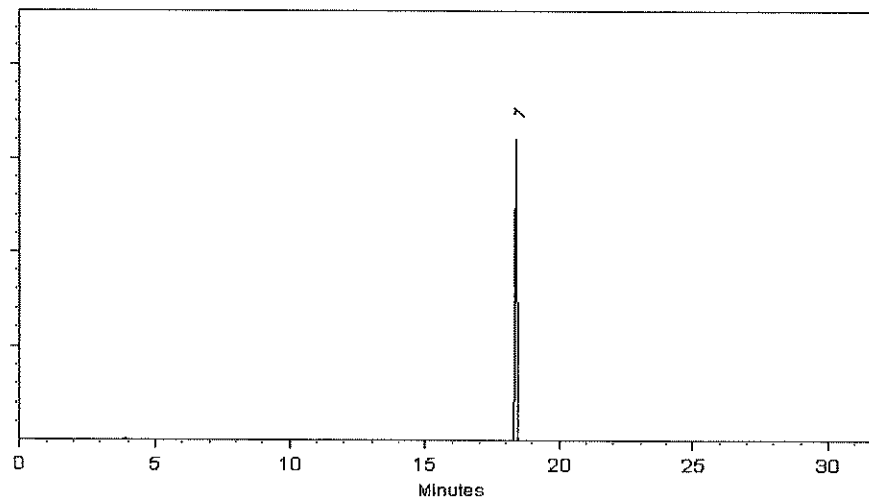
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Nick Yaw

Nick Yaw - Operations Tech I

Date Mixed: 31-Aug-2022

Balance: B442140311

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 02-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570808.sec_00002



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808.SEC **Lot No.:** A0126195

Description : 8260 List 2 / Std #6
8260 List 2 / Std #6 2500-62500 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol) CAS # 67-63-0.SEC (Lot NWVYK) Purity 98%	25,010.4 µg/mL	+/- 146.4413 µg/mL Gravimetric +/- 1,237.3312 µg/mL Unstressed +/- 1,268.0926 µg/mL Stressed
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 * (Lot 170113JLM) Purity 99%	2,519.6 µg/mL	+/- 14.7864 µg/mL Gravimetric +/- 124.6554 µg/mL Unstressed +/- 127.7543 µg/mL Stressed
3	Methacrylonitrile CAS # 126-98-7 * (Lot 1012014) Purity 99%	25,013.6 µg/mL	+/- 146.4601 µg/mL Gravimetric +/- 1,237.4903 µg/mL Unstressed +/- 1,268.2556 µg/mL Stressed
4	2,2,4-Trimethylpentane (Isooctane) CAS # 540-84-1.SEC (Lot 4597900) Purity 99%	2,502.4 µg/mL	+/- 14.6855 µg/mL Gravimetric +/- 123.8044 µg/mL Unstressed +/- 126.8822 µg/mL Stressed
5	1-Butanol CAS # 71-36-3.SEC (Lot QBO2D) Purity 99%	62,532.0 µg/mL	+/- 366.1197 µg/mL Gravimetric +/- 3,093.6246 µg/mL Unstressed +/- 3,170.5355 µg/mL Stressed
6	2-Nitropropane CAS # 79-46-9.SEC (Lot 6M3NJ) Purity 98%	5,012.9 µg/mL	+/- 29.3516 µg/mL Gravimetric +/- 248.0015 µg/mL Unstressed +/- 254.1671 µg/mL Stressed
7	1-Chlorohexane CAS # 544-10-5.SEC (Lot 3890000) Purity 98%	2,507.6 µg/mL	+/- 14.7161 µg/mL Gravimetric +/- 124.0629 µg/mL Unstressed +/- 127.1470 µg/mL Stressed

8	1,2,3-Trimethylbenzene CAS # 526-73-8.SEC Purity 96%	(Lot 5602500)	2,505.6 µg/mL	+/- 14.7043 +/- 123.9628 +/- 127.0444	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride CAS # 100-44-7.SEC Purity 99%	(Lot H29N03)	2,506.4 µg/mL	+/- 14.7090 +/- 124.0023 +/- 127.0850	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene CAS # 108-70-3.SEC Purity 99%	(Lot I28U021)	2,504.0 µg/mL	+/- 14.6949 +/- 123.8836 +/- 126.9633	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

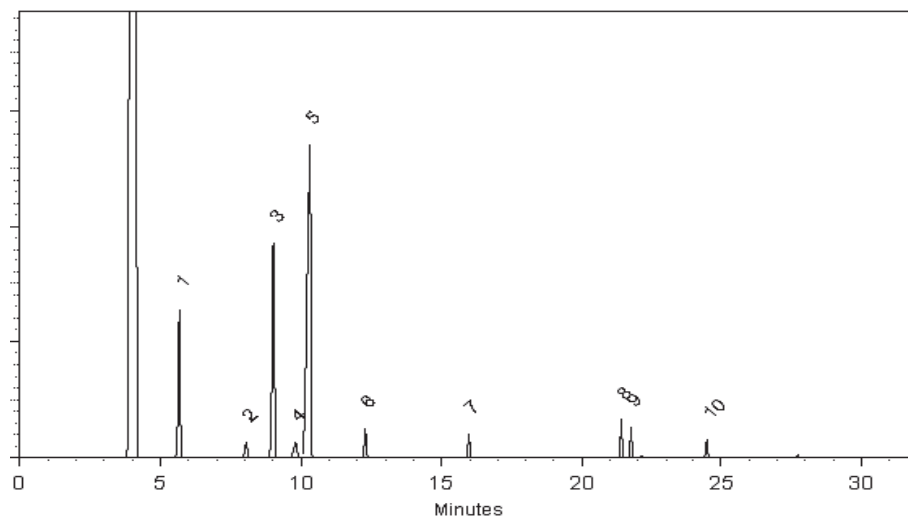
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish
Brandon Reish - Mix Technician

Date Mixed: 27-Mar-2017

Balance: 1127510105

Jennifer Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 29-Mar-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

mv-570808.sec_00007



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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808.SEC **Lot No.:** A0171439

Description : 8260 List 2 / Std #6
8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2022 **Storage:** 0°C or colder

Ship: Ambient

REC'D
11/1/21
Gm

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) CAS # 67-63-0.SEC (Lot TFT5I) Purity 99%	25,183.3 µg/mL	+/- 147.4540 µg/mL +/- 1,245.8875 µg/mL +/- 1,276.8616 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 * (Lot 210413JLM) Purity 99%	2,522.7 µg/mL	+/- 14.8044 µg/mL +/- 124.8071 µg/mL +/- 127.9098 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile CAS # 126-98-7 * (Lot 1012014) Purity 99%	25,147.7 µg/mL	+/- 147.2451 µg/mL +/- 1,244.1230 µg/mL +/- 1,275.0532 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (Isooctane) CAS # 540-84-1.SEC (Lot 8014900) Purity 99%	2,518.0 µg/mL	+/- 14.7770 µg/mL +/- 124.5762 µg/mL +/- 127.6731 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol CAS # 71-36-3.SEC (Lot 6B6UL) Purity 99%	63,095.0 µg/mL	+/- 369.4160 µg/mL +/- 3,121.4777 µg/mL +/- 3,199.0811 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane CAS # 79-46-9.SEC (Lot F43IA) Purity 99%	5,038.0 µg/mL	+/- 29.4986 µg/mL +/- 249.2435 µg/mL +/- 255.4399 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane CAS # 544-10-5.SEC (Lot 8171700) Purity 99%	2,525.0 µg/mL	+/- 14.8181 µg/mL +/- 124.9226 µg/mL +/- 128.0281 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,521.2	µg/mL	+/-	14.7959	µg/mL	Gravimetric
	CAS #	526-73-8.SEC (Lot 11407900)			+/-	124.7352	µg/mL	Unstressed
	Purity	98%			+/-	127.8361	µg/mL	Stressed
9	Benzyl chloride		2,516.3	µg/mL	+/-	14.7673	µg/mL	Gravimetric
	CAS #	100-44-7.SEC (Lot H29N03)			+/-	124.4938	µg/mL	Unstressed
	Purity	99%			+/-	127.5886	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,523.0	µg/mL	+/-	14.8064	µg/mL	Gravimetric
	CAS #	108-70-3.SEC (Lot I28U021)			+/-	124.8236	µg/mL	Unstressed
	Purity	99%			+/-	127.9267	µg/mL	Stressed
Solvent: P&T Methanol								
CAS # 67-56-1								
Purity 99%								

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

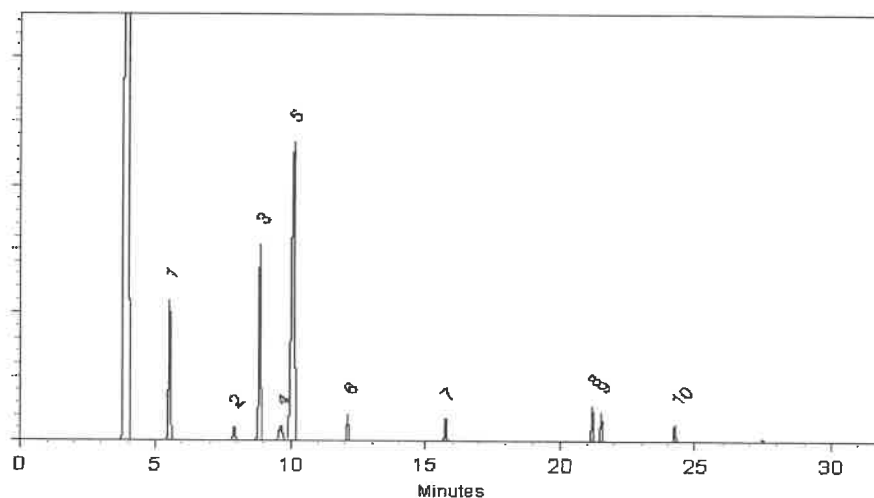
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cory Meyer - Operations Tech I

Date Mixed: 19-Apr-2021 Balance: 1128342314

Alexis Shelow - Operations Tech I

Date Passed: 21-Apr-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570808.sec_00008



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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808.SEC **Lot No.:** A0183834

Description : 8260 List 2 / Std #6
8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2023 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol) CAS # 67-63-0.SEC (Lot G6HNF) Purity 99%	25,061.5 µg/mL	+/- 146.7406 µg/mL Gravimetric +/- 1,239.8601 µg/mL Unstressed +/- 1,270.6843 µg/mL Stressed
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 * (Lot 220304JEAN) Purity 99%	2,518.0 µg/mL	+/- 14.7770 µg/mL Gravimetric +/- 124.5762 µg/mL Unstressed +/- 127.6731 µg/mL Stressed
3	Methacrylonitrile CAS # 126-98-7 * (Lot 1012020) Purity 99%	25,079.5 µg/mL	+/- 146.8460 µg/mL Gravimetric +/- 1,240.7506 µg/mL Unstressed +/- 1,271.5969 µg/mL Stressed
4	2,2,4-Trimethylpentane (Isooctane) CAS # 540-84-1.SEC (Lot 11566800) Purity 99%	2,509.5 µg/mL	+/- 14.7272 µg/mL Gravimetric +/- 124.1557 µg/mL Unstressed +/- 127.2422 µg/mL Stressed
5	1-Butanol CAS # 71-36-3.SEC (Lot RSHAH) Purity 99%	62,722.5 µg/mL	+/- 367.2351 µg/mL Gravimetric +/- 3,103.0492 µg/mL Unstressed +/- 3,180.1943 µg/mL Stressed
6	2-Nitropropane CAS # 79-46-9.SEC (Lot F43IA) Purity 99%	5,021.5 µg/mL	+/- 29.4020 µg/mL Gravimetric +/- 248.4272 µg/mL Unstressed +/- 254.6033 µg/mL Stressed
7	1-Chlorohexane CAS # 544-10-5.SEC (Lot 13075400) Purity 99%	2,515.5 µg/mL	+/- 14.7624 µg/mL Gravimetric +/- 124.4526 µg/mL Unstressed +/- 127.5464 µg/mL Stressed

8	1,2,3-Trimethylbenzene CAS # 526-73-8.SEC Purity 99%	(Lot 12203300)	2,514.0 µg/mL	+/- 14.7536 +/- 124.3783 +/- 127.4703	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride CAS # 100-44-7.SEC Purity 99%	(Lot H29N03)	2,513.5 µg/mL	+/- 14.7506 +/- 124.3536 +/- 127.4450	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene CAS # 108-70-3.SEC Purity 99%	(Lot I28U021)	2,516.5 µg/mL	+/- 14.7682 +/- 124.5020 +/- 127.5971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

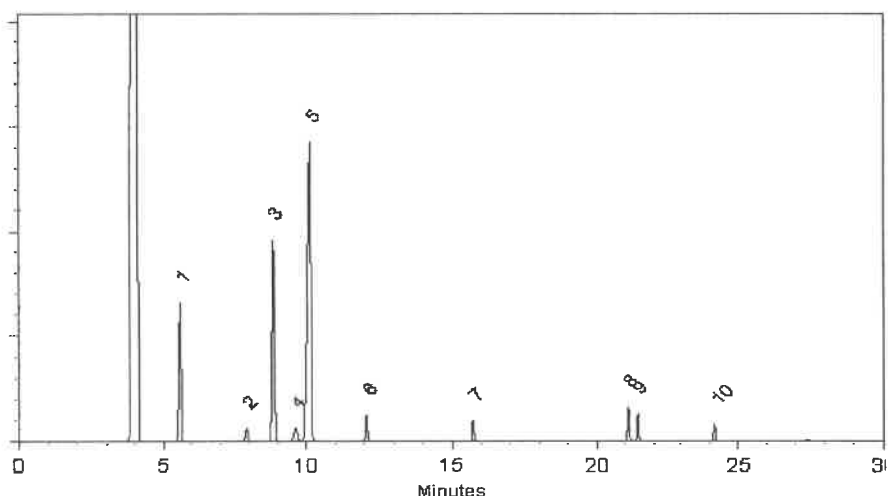
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Katelyn McGlinn
Katelyn McGlinn - Operations Tech I

Date Mixed: 07-Apr-2022 **Balance:** 1127510105

Clara Windle
Clara Windle - Operations Technician I

Date Passed: 12-Apr-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570808.sec_00009



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808.SEC **Lot No.:** A0193865

Description : 8260 List 2 / Std #6
8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0.SEC	G6HNF	99%	25,080.0 µg/mL	+/- 410.1061
2	Chloroprene (2-chloro-1,3-butadiene)	126-99-8 *	220712JLM	99%	2,519.0 µg/mL	+/- 41.2025
3	Methacrylonitrile	126-98-7 *	1012014	99%	25,106.0 µg/mL	+/- 410.5312
4	2,2,4-Trimethylpentane (Isooctane)	540-84-1.SEC	11566800	99%	2,513.0 µg/mL	+/- 41.1044
5	1-Butanol	71-36-3.SEC	RSHAH	99%	62,635.5 µg/mL	+/- 1,024.2037
6	2-Nitropropane	79-46-9.SEC	F43IA	99%	5,037.0 µg/mL	+/- 82.3646
7	1-Chlorohexane	544-10-5.SEC	8171700	99%	2,507.0 µg/mL	+/- 41.0062
8	1,2,3-Trimethylbenzene	526-73-8.SEC	12203300	99%	2,512.0 µg/mL	+/- 41.0880
9	Benzyl chloride	100-44-7.SEC	H29N03	99%	2,515.5 µg/mL	+/- 41.1453
10	1,3,5-Trichlorobenzene	108-70-3.SEC	I28U02I	99%	2,510.5 µg/mL	+/- 41.0635

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Revised
5/25/23
[Signature]

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

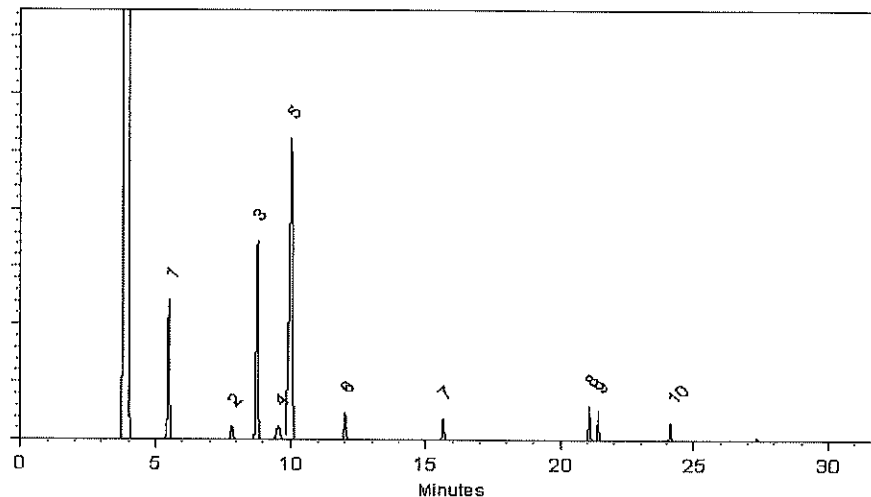
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Katelyn McGinnis
Katelyn McGinnis - Operations Tech I

Date Mixed: 23-Jan-2023

Balance Serial # 1128342314

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 02-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570808_00004

Reagent

mv-570808_00013



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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 570808 **Lot No.:** A0177095

Description: 8260 List 2 / Std #6
8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL **Pkg Amt:** > 1 mL

Expiration Date: April 30, 2023 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol) CAS # 67-63-0 (Lot SHBH7211) Purity 99%	25,197.0 µg/mL	+/- 147.5340 µg/mL Gravimetric +/- 1,246.5636 µg/mL Unstressed +/- 1,277.5545 µg/mL Stressed
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 (Lot 210413JLM) Purity 99%	2,522.5 µg/mL	+/- 14.8034 µg/mL Gravimetric +/- 124.7989 µg/mL Unstressed +/- 127.9013 µg/mL Stressed
3	Methacrylonitrile CAS # 126-98-7 (Lot 1012020) Purity 99%	25,122.5 µg/mL	+/- 147.0978 µg/mL Gravimetric +/- 1,242.8779 µg/mL Unstressed +/- 1,273.7771 µg/mL Stressed
4	2,2,4-Trimethylpentane (isooctane) CAS # 540-84-1 (Lot MKCF8045) Purity 99%	2,522.5 µg/mL	+/- 14.8034 µg/mL Gravimetric +/- 124.7989 µg/mL Unstressed +/- 127.9013 µg/mL Stressed
5	1-Butanol CAS # 71-36-3 (Lot SHBM5061) Purity 99%	62,707.0 µg/mL	+/- 367.1443 µg/mL Gravimetric +/- 3,102.2823 µg/mL Unstressed +/- 3,179.4084 µg/mL Stressed
6	2-Nitropropane CAS # 79-46-9 (Lot BCCB9352) Purity 97%	5,025.1 µg/mL	+/- 29.4230 µg/mL Gravimetric +/- 248.6045 µg/mL Unstressed +/- 254.7851 µg/mL Stressed
7	1-Chlorohexane CAS # 544-10-5 (Lot BCBS3368V) Purity 98%	2,523.0 µg/mL	+/- 14.8064 µg/mL Gravimetric +/- 124.8241 µg/mL Unstressed +/- 127.9272 µg/mL Stressed

2/3/28

8	1,2,3-Trimethylbenzene CAS # 526-73-8 Purity 99%	(Lot 8776.10-14)	2,508.0 µg/mL	+/- 14.7183 +/- 124.0815 +/- 127.1661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride CAS # 100-44-7 Purity 99%	(Lot SHBH2102V)	2,519.0 µg/mL	+/- 14.7829 +/- 124.6257 +/- 127.7238	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene CAS # 108-70-3 Purity 99%	(Lot 11319AS)	2,512.0 µg/mL	+/- 14.7418 +/- 124.2794 +/- 127.3689	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%						

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

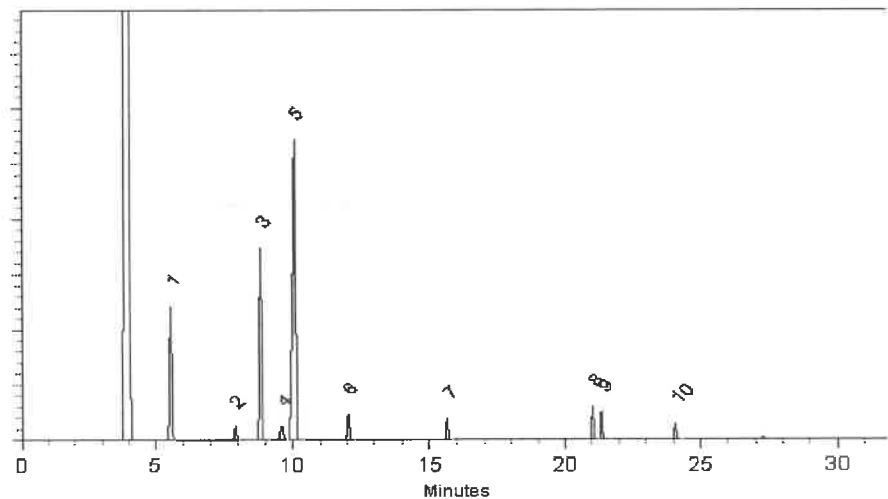
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

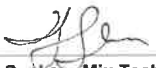
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

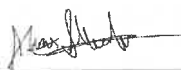


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 04-Oct-2021

Balance: B707717271


Alexis Shelow - Operations Tech I

Date Passed: 06-Oct-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570808_00015



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Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 570808 Lot No.: A0184916
Description: 8260 List 2 / Std #6
8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: November 30, 2023 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)
1	2-Propanol (isopropanol) CAS # 67-63-0 (Lot SHBN1353) Purity 99%	25,010.5 µg/mL	+/- 146.4420 µg/mL +/- 1,237.3370 µg/mL +/- 1,268.0985 µg/mL
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 (Lot 220304JEAN) Purity 99%	2,514.0 µg/mL	+/- 14.7536 µg/mL +/- 124.3783 µg/mL +/- 127.4703 µg/mL
3	Methacrylonitrile CAS # 126-98-7 (Lot 1012020) Purity 99%	25,025.5 µg/mL	+/- 146.5298 µg/mL +/- 1,238.0790 µg/mL +/- 1,268.8590 µg/mL
4	2,2,4-Trimethylpentane (isooctane) CAS # 540-84-1 (Lot MKCM6627) Purity 99%	2,504.0 µg/mL	+/- 14.6949 µg/mL +/- 123.8836 µg/mL +/- 126.9633 µg/mL
5	1-Butanol CAS # 71-36-3 (Lot SHBN6854) Purity 99%	62,503.0 µg/mL	+/- 365.9499 µg/mL +/- 3,092.1899 µg/mL +/- 3,169.0651 µg/mL
6	2-Nitropropane CAS # 79-46-9 (Lot BCCB9352) Purity 97%	5,008.6 µg/mL	+/- 29.3264 µg/mL +/- 247.7887 µg/mL +/- 253.9490 µg/mL
7	1-Chlorohexane CAS # 544-10-5 (Lot BCBS3368V) Purity 98%	2,504.9 µg/mL	+/- 14.7000 µg/mL +/- 123.9271 µg/mL +/- 127.0079 µg/mL

3/24/23

8	1,2,3-Trimethylbenzene		2,505.4	µg/mL	+/-	14.7029	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8776.10-36)			+/-	123.9514	µg/mL	Unstressed
	Purity 98%				+/-	127.0327	µg/mL	Stressed
9	Benzyl chloride		2,503.0	µg/mL	+/-	14.6890	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	123.8341	µg/mL	Unstressed
	Purity 99%				+/-	126.9126	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,507.5	µg/mL	+/-	14.7154	µg/mL	Gravimetric
	CAS # 108-70-3	(Lot 11319AS)			+/-	124.0568	µg/mL	Unstressed
	Purity 99%				+/-	127.1407	µg/mL	Stressed
Solvent: P&T Methanol								
	CAS # 67-56-1							
	Purity 99%							

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

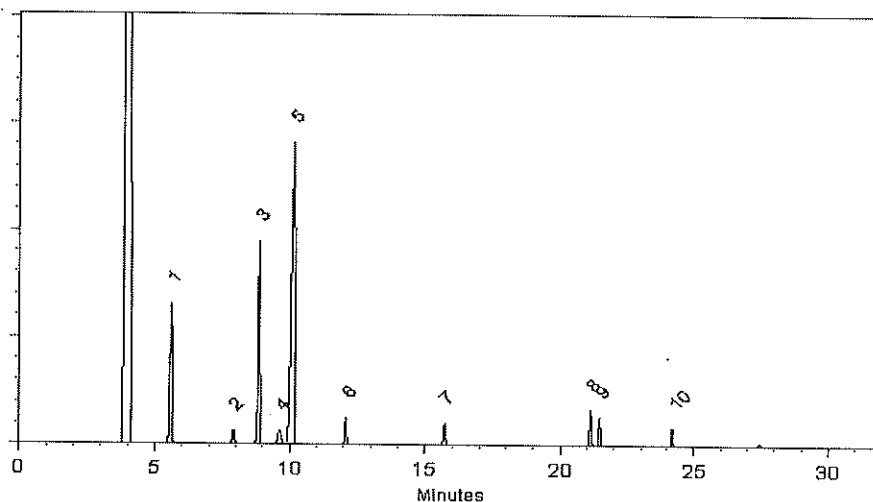
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 04-May-2022 Balance: B251644995

Christie Mills
Christie Mills - Operations Technician II

Date Passed: 17-May-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570809.sec_00002



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809.sec **Lot No.:** A0126533

Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2500-5000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Ethyl acetate		5,005.0 µg/mL	+/- 29.3054	µg/mL	Gravimetric
	CAS # 141-78-6.SEC	(Lot C386A-GG)		+/- 301.9937	µg/mL	Unstressed
	Purity 99%			+/- 302.7106	µg/mL	Stressed
2	Ethyl acrylate		2,502.0 µg/mL	+/- 14.6831	µg/mL	Gravimetric
	CAS # 140-88-5.SEC	(Lot YIFAM-TG)		+/- 150.9699	µg/mL	Unstressed
	Purity 99%			+/- 151.3283	µg/mL	Stressed
3	Methyl methacrylate		5,003.5 µg/mL	+/- 29.2966	µg/mL	Gravimetric
	CAS # 80-62-6.SEC	(Lot G01X021)		+/- 301.9032	µg/mL	Unstressed
	Purity 99%			+/- 302.6199	µg/mL	Stressed
4	Butyl acetate		2,505.0 µg/mL	+/- 14.7007	µg/mL	Gravimetric
	CAS # 123-86-4.SEC	(Lot V2L2G-GT)		+/- 151.1510	µg/mL	Unstressed
	Purity 99%			+/- 151.5098	µg/mL	Stressed
Solvent:	P&T Methanol					
	CAS # 67-56-1					
	Purity 99%					

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

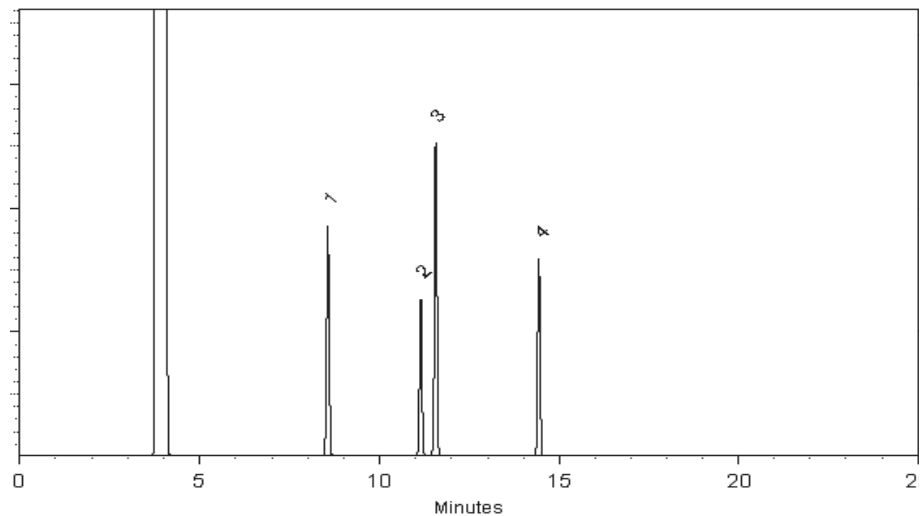
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maje

Date Mixed: 05-Apr-2017 **Balance:** 1127510105

Jennifer Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 10-Apr-2017

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

mv-570809.sec_00008



110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809.SEC Lot No.: A0171207
Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : October 31, 2022 Storage: 0°C or colder
Ship: Ambient

REC'D
12/13/21
Gm

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethyl acetate CAS # 141-78-6.SEC (Lot C386A-GG) Purity 99%	5,030.0 µg/mL	+/- 29.4518 µg/mL Gravimetric +/- 303.5022 µg/mL Unstressed +/- 304.2227 µg/mL Stressed
2	Ethyl acrylate CAS # 140-88-5.SEC (Lot YIFAM-TG) Purity 99%	2,515.0 µg/mL	+/- 14.7594 µg/mL Gravimetric +/- 151.7544 µg/mL Unstressed +/- 152.1146 µg/mL Stressed
3	Methyl methacrylate CAS # 80-62-6.SEC (Lot G01X021) Purity 99%	5,029.0 µg/mL	+/- 29.4459 µg/mL Gravimetric +/- 303.4419 µg/mL Unstressed +/- 304.1622 µg/mL Stressed
4	Butyl acetate CAS # 123-86-4.SEC (Lot V2L2G-GT) Purity 99%	2,510.0 µg/mL	+/- 14.7301 µg/mL Gravimetric +/- 151.4527 µg/mL Unstressed +/- 151.8122 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

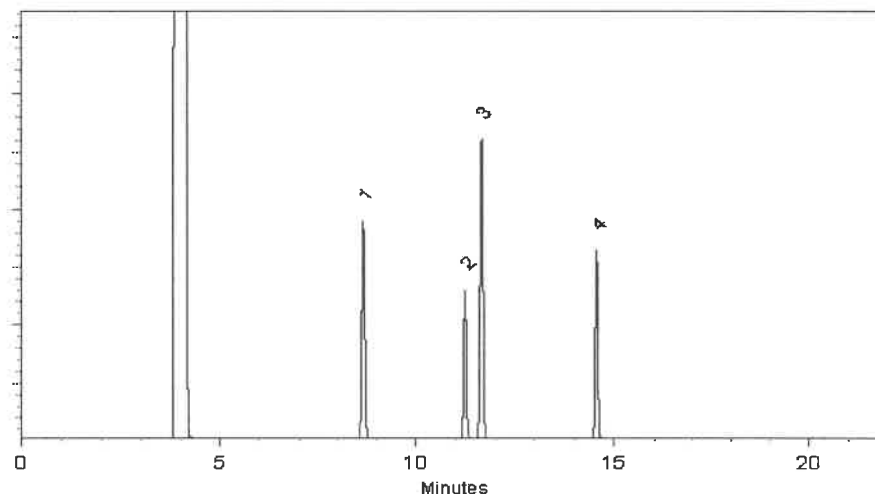
200°C

Det. Temp:

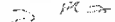
250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Cory Meyer - Operations Tech I

Date Mixed: 12-Apr-2021

Balance: 1127510105


Alexis Shelow - Operations Tech I

Date Passed: 15-Apr-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570809.sec_00010



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809.SEC **Lot No.:** A0183813
Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2023 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethyl acetate CAS # 141-78-6.SEC (Lot C386A-GG) Purity 99%	5,040.0 µg/mL	+/- 29.5103 µg/mL Gravimetric +/- 304.1056 µg/mL Unstressed +/- 304.8275 µg/mL Stressed
2	Ethyl acrylate CAS # 140-88-5.SEC (Lot YIFAM-TG) Purity 99%	2,510.0 µg/mL	+/- 14.7301 µg/mL Gravimetric +/- 151.4527 µg/mL Unstressed +/- 151.8122 µg/mL Stressed
3	Methyl methacrylate CAS # 80-62-6.SEC (Lot G01X021) Purity 99%	5,035.0 µg/mL	+/- 29.4810 µg/mL Gravimetric +/- 303.8039 µg/mL Unstressed +/- 304.5251 µg/mL Stressed
4	Butyl acetate CAS # 123-86-4.SEC (Lot V2L2G-GT) Purity 99%	2,500.0 µg/mL	+/- 14.6714 µg/mL Gravimetric +/- 150.8493 µg/mL Unstressed +/- 151.2073 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Handwritten signature and date: 12/5/22

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

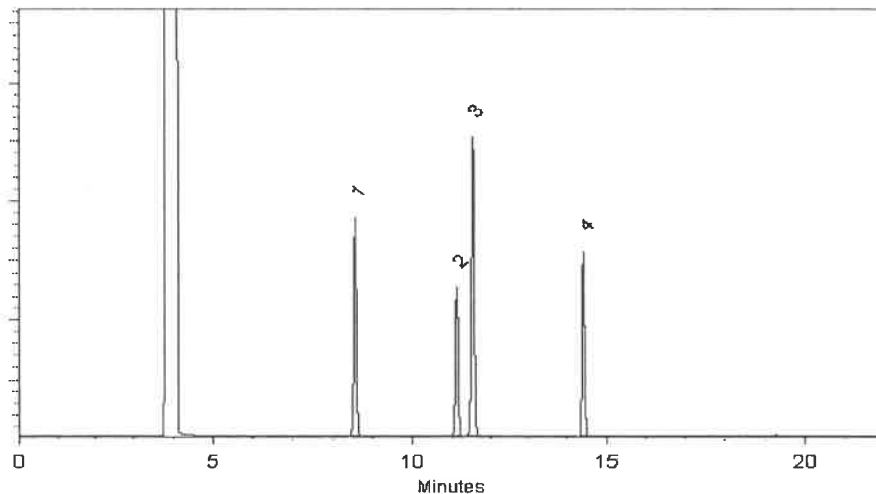
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

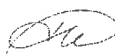
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

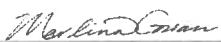


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Jess Hoy - Operations Tech I

Date Mixed: 07-Apr-2022

Balance: 1127510105


Marlene Cowan - Operations Tech I

Date Passed: 13-Apr-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570809_00004

Reagent

mv-570809_00011



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Catalog No. : 570809 **Lot No.:** A0173205

Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2022 **Storage:** 0°C or colder
Ship: Ambient

REC'D
12/13/21
GM

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethyl acetate CAS # 141-78-6 Purity 99% (Lot SHBM3421)	5,011.0 µg/mL	+/- 29.3405 µg/mL +/- 302.3558 µg/mL +/- 303.0735 µg/mL Gravimetric Unstressed Stressed
2	Ethyl acrylate CAS # 140-88-5 Purity 99% (Lot 10129902)	2,505.5 µg/mL	+/- 14.7037 µg/mL +/- 151.1811 µg/mL +/- 151.5400 µg/mL Gravimetric Unstressed Stressed
3	Methyl methacrylate CAS # 80-62-6 Purity 99% (Lot MKCN3027)	5,010.5 µg/mL	+/- 29.3376 µg/mL +/- 302.3256 µg/mL +/- 303.0433 µg/mL Gravimetric Unstressed Stressed
4	Butyl acetate CAS # 123-86-4 Purity 99% (Lot SHBM7214)	2,507.5 µg/mL	+/- 14.7154 µg/mL +/- 151.3018 µg/mL +/- 151.6610 µg/mL Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

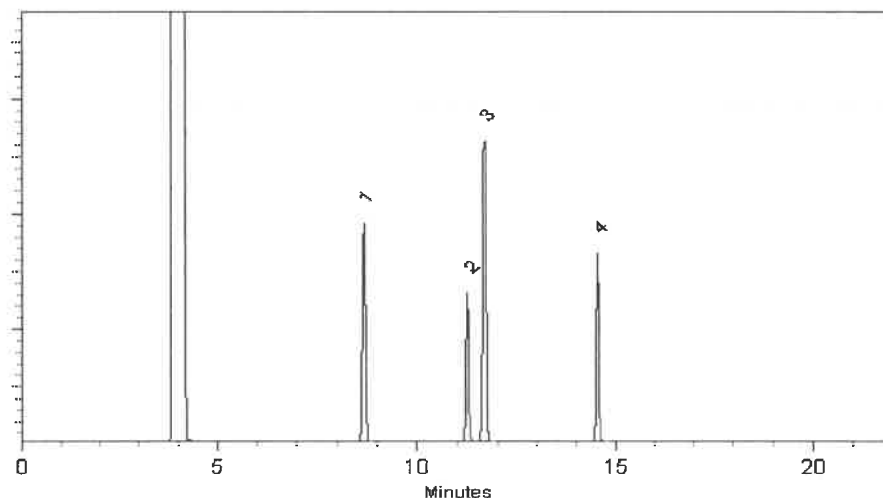
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



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Miranda Kline
Miranda Kline - Operations Technician I

Date Mixed: 09-Jun-2021 **Balance:** B251644995

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 11-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570809_00013



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Catalog No. : 570809 **Lot No.:** A0189215
Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2024 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethyl acetate CAS # 141-78-6 (Lot SHBP3779) Purity 99%	5,047.5 µg/mL	+/- 29.5542 µg/mL Gravimetric +/- 304.5581 µg/mL Unstressed +/- 305.2811 µg/mL Stressed
2	Ethyl acrylate CAS # 140-88-5 (Lot 10129902) Purity 99%	2,517.0 µg/mL	+/- 14.7712 µg/mL Gravimetric +/- 151.8750 µg/mL Unstressed +/- 152.2356 µg/mL Stressed
3	Methyl methacrylate CAS # 80-62-6 (Lot MKCQ2755) Purity 99%	5,050.0 µg/mL	+/- 29.5689 µg/mL Gravimetric +/- 304.7090 µg/mL Unstressed +/- 305.4323 µg/mL Stressed
4	Butyl acetate CAS # 123-86-4 (Lot SHBN3806) Purity 99%	2,521.5 µg/mL	+/- 14.7976 µg/mL Gravimetric +/- 152.1466 µg/mL Unstressed +/- 152.5077 µg/mL Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%			

Rev 3/29/23
Qu

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

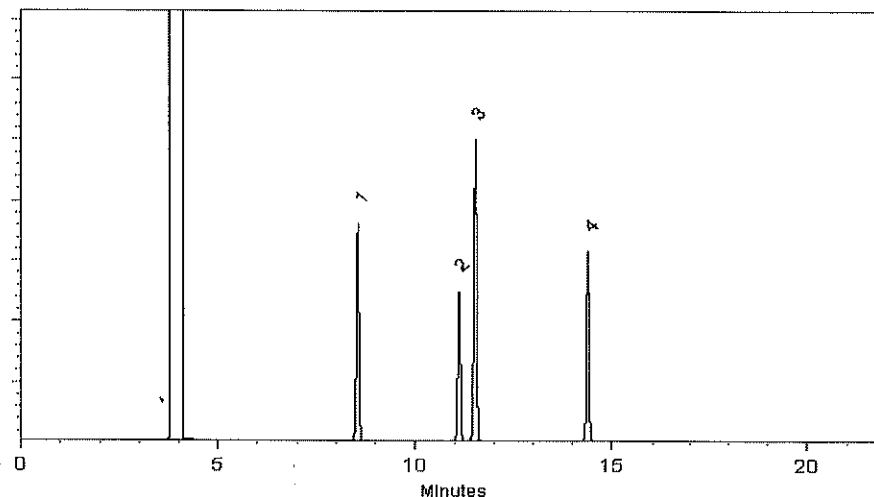
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery
Bethany Lowery - Operations Tech I

Date Mixed: 01-Sep-2022

Balance: B251644995

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-571992.sec_00007



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Catalog No. : 571992.SEC **Lot No.:** A0167172

Description : 8260 List 1 / Std #1 MegaMix (2017)
8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2023 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Diethyl ether (ethyl ether) CAS # 60-29-7.SEC (Lot F23X068) Purity 99%	2,501.7 µg/mL	+/- 14.5449 µg/mL Gravimetric +/- 150.9366 µg/mL Unstressed +/- 151.2950 µg/mL Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1.SEC (Lot 18342) Purity 99%	2,500.8 µg/mL	+/- 14.5401 µg/mL Gravimetric +/- 150.8864 µg/mL Unstressed +/- 151.2446 µg/mL Stressed
3	1,1-Dichloroethene CAS # 75-35-4.SEC (Lot 7692300) Purity 99%	2,501.2 µg/mL	+/- 14.5420 µg/mL Gravimetric +/- 150.9065 µg/mL Unstressed +/- 151.2647 µg/mL Stressed
4	tert-Butanol (TBA) CAS # 75-65-0.SEC (Lot HGCHN) Purity 99%	25,001.2 µg/mL	+/- 145.3513 µg/mL Gravimetric +/- 1,508.4304 µg/mL Unstressed +/- 1,512.0117 µg/mL Stressed
5	Methyl acetate CAS # 79-20-9.SEC (Lot UCNEL) Purity 99%	5,000.2 µg/mL	+/- 29.0714 µg/mL Gravimetric +/- 301.6822 µg/mL Unstressed +/- 302.3985 µg/mL Stressed
6	Iodomethane (methyl iodide) CAS # 74-88-4.SEC (Lot Y25A027) Purity 99%	2,501.0 µg/mL	+/- 14.5410 µg/mL Gravimetric +/- 150.8964 µg/mL Unstressed +/- 151.2547 µg/mL Stressed
7	Allyl chloride (3-chloropropene) CAS # 107-05-1.SEC (Lot H3HGC) Purity 99%	2,501.7 µg/mL	+/- 14.5449 µg/mL Gravimetric +/- 150.9366 µg/mL Unstressed +/- 151.2950 µg/mL Stressed

8	Methylene chloride (dichloromethane) CAS # 75-09-2.SEC (Lot FGM02) Purity 99%	2,501.0 µg/mL	+/-	14.5410 µg/mL	Gravimetric
			+/-	150.8964 µg/mL	Unstressed
			+/-	151.2547 µg/mL	Stressed
9	Carbon disulfide CAS # 75-15-0.SEC (Lot MKBL1376V) Purity 99%	2,501.5 µg/mL	+/-	14.5439 µg/mL	Gravimetric
			+/-	150.9266 µg/mL	Unstressed
			+/-	151.2849 µg/mL	Stressed
10	Acrylonitrile CAS # 107-13-1.SEC (Lot V54AD) Purity 99%	25,000.7 µg/mL	+/-	145.3484 µg/mL	Gravimetric
			+/-	1,508.4003 µg/mL	Unstressed
			+/-	1,511.9815 µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4.SEC (Lot ZHKYA) Purity 99%	2,501.2 µg/mL	+/-	14.5420 µg/mL	Gravimetric
			+/-	150.9065 µg/mL	Unstressed
			+/-	151.2647 µg/mL	Stressed
12	cis-1,2-Dichloroethene CAS # 156-59-2.SEC (Lot YZO5O) Purity 99%	2,500.2 µg/mL	+/-	14.5362 µg/mL	Gravimetric
			+/-	150.8461 µg/mL	Unstressed
			+/-	151.2043 µg/mL	Stressed
13	n-Hexane (C6) CAS # 110-54-3.SEC (Lot 10188491) Purity 99%	2,500.5 µg/mL	+/-	14.5381 µg/mL	Gravimetric
			+/-	150.8662 µg/mL	Unstressed
			+/-	151.2244 µg/mL	Stressed
14	1,1-Dichloroethane CAS # 75-34-3.SEC (Lot 1026.30-2) Purity 99%	2,500.8 µg/mL	+/-	14.5401 µg/mL	Gravimetric
			+/-	150.8864 µg/mL	Unstressed
			+/-	151.2446 µg/mL	Stressed
15	2,2-Dichloropropane CAS # 594-20-7.SEC (Lot I7E8E) Purity 99%	2,500.5 µg/mL	+/-	14.5381 µg/mL	Gravimetric
			+/-	150.8662 µg/mL	Unstressed
			+/-	151.2244 µg/mL	Stressed
16	trans-1,2-Dichloroethene CAS # 156-60-5.SEC (Lot L5QOH) Purity 99%	2,500.7 µg/mL	+/-	14.5391 µg/mL	Gravimetric
			+/-	150.8763 µg/mL	Unstressed
			+/-	151.2345 µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1.SEC (Lot YNG3K) Purity 99%	62,500.7 µg/mL	+/-	363.3653 µg/mL	Gravimetric
			+/-	3,770.9403 µg/mL	Unstressed
			+/-	3,779.8932 µg/mL	Stressed
18	Chloroform CAS # 67-66-3.SEC (Lot 1297547) Purity 99%	2,500.5 µg/mL	+/-	14.5381 µg/mL	Gravimetric
			+/-	150.8662 µg/mL	Unstressed
			+/-	151.2244 µg/mL	Stressed
19	Bromochloromethane CAS # 74-97-5.SEC (Lot 8529200) Purity 99%	2,501.5 µg/mL	+/-	14.5439 µg/mL	Gravimetric
			+/-	150.9266 µg/mL	Unstressed
			+/-	151.2849 µg/mL	Stressed
20	Tetrahydrofuran CAS # 109-99-9.SEC (Lot 8DAOJ) Purity 99%	5,001.5 µg/mL	+/-	29.0792 µg/mL	Gravimetric
			+/-	301.7627 µg/mL	Unstressed
			+/-	302.4791 µg/mL	Stressed
21	1,1,1-Trichloroethane CAS # 71-55-6.SEC (Lot 7998000) Purity 99%	2,500.7 µg/mL	+/-	14.5391 µg/mL	Gravimetric
			+/-	150.8763 µg/mL	Unstressed
			+/-	151.2345 µg/mL	Stressed
22	Cyclohexane CAS # 110-82-7.SEC (Lot YADRA) Purity 99%	2,500.0 µg/mL	+/-	14.5352 µg/mL	Gravimetric
			+/-	150.8361 µg/mL	Unstressed
			+/-	151.1942 µg/mL	Stressed
23	1,1-Dichloropropene CAS # 563-58-6.SEC (Lot 556500) Purity 99%	2,501.5 µg/mL	+/-	14.5439 µg/mL	Gravimetric
			+/-	150.9266 µg/mL	Unstressed
			+/-	151.2849 µg/mL	Stressed

24.	Carbon tetrachloride CAS # 56-23-5.SEC Purity 99%	(Lot 11466)	2,501.5 µg/mL	+/-	14.5439	µg/mL	Gravimetric
				+/-	150.9266	µg/mL	Unstressed
				+/-	151.2849	µg/mL	Stressed
25	n-Heptane (C7) CAS # 142-82-5.SEC Purity 99%	(Lot TFHUC)	2,500.2 µg/mL	+/-	14.5362	µg/mL	Gravimetric
				+/-	150.8461	µg/mL	Unstressed
				+/-	151.2043	µg/mL	Stressed
26	1,2-Dichloroethane CAS # 107-06-2.SEC Purity 99%	(Lot 00016165)	2,501.2 µg/mL	+/-	14.5420	µg/mL	Gravimetric
				+/-	150.9065	µg/mL	Unstressed
				+/-	151.2647	µg/mL	Stressed
27	Benzene CAS # 71-43-2.SEC Purity 99%	(Lot B28Y008)	2,501.2 µg/mL	+/-	14.5420	µg/mL	Gravimetric
				+/-	150.9065	µg/mL	Unstressed
				+/-	151.2647	µg/mL	Stressed
28	Trichloroethene CAS # 79-01-6.SEC Purity 99%	(Lot H04X050)	2,501.3 µg/mL	+/-	14.5430	µg/mL	Gravimetric
				+/-	150.9165	µg/mL	Unstressed
				+/-	151.2748	µg/mL	Stressed
29	Methylcyclohexane CAS # 108-87-2.SEC Purity 99%	(Lot 24MSD-CD)	2,500.8 µg/mL	+/-	14.5401	µg/mL	Gravimetric
				+/-	150.8864	µg/mL	Unstressed
				+/-	151.2446	µg/mL	Stressed
30	1,2-Dichloropropane CAS # 78-87-5.SEC Purity 99%	(Lot ERRBI-RH)	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
				+/-	150.8361	µg/mL	Unstressed
				+/-	151.1942	µg/mL	Stressed
31	1,4-Dioxane CAS # 123-91-1.SEC Purity 99%	(Lot 8CALO)	50,000.7 µg/mL	+/-	290.6930	µg/mL	Gravimetric
				+/-	3,016.7603	µg/mL	Unstressed
				+/-	3,023.9226	µg/mL	Stressed
32	Dibromomethane CAS # 74-95-3.SEC Purity 99%	(Lot MOKKJ)	2,501.0 µg/mL	+/-	14.5410	µg/mL	Gravimetric
				+/-	150.8964	µg/mL	Unstressed
				+/-	151.2547	µg/mL	Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5.SEC Purity 99%	(Lot 7ZLXJ-TJ)	2,501.7 µg/mL	+/-	14.5449	µg/mL	Gravimetric
				+/-	150.9366	µg/mL	Unstressed
				+/-	151.2950	µg/mL	Stressed
34	Toluene CAS # 108-88-3.SEC Purity 99%	(Lot YND2B-BD)	2,500.2 µg/mL	+/-	14.5362	µg/mL	Gravimetric
				+/-	150.8461	µg/mL	Unstressed
				+/-	151.2043	µg/mL	Stressed
35	Ethyl methacrylate CAS # 97-63-2.SEC Purity 99%	(Lot AQSP0)	2,500.7 µg/mL	+/-	14.5391	µg/mL	Gravimetric
				+/-	150.8763	µg/mL	Unstressed
				+/-	151.2345	µg/mL	Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6.SEC Purity 98%	(Lot ZDMSL)	2,501.0 µg/mL	+/-	14.5408	µg/mL	Gravimetric
				+/-	150.8940	µg/mL	Unstressed
				+/-	151.2522	µg/mL	Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5.SEC Purity 99%	(Lot 9245400)	2,501.7 µg/mL	+/-	14.5449	µg/mL	Gravimetric
				+/-	150.9366	µg/mL	Unstressed
				+/-	151.2950	µg/mL	Stressed
38	1,3-Dichloropropane CAS # 142-28-9.SEC Purity 99%	(Lot IQCON)	2,501.8 µg/mL	+/-	14.5459	µg/mL	Gravimetric
				+/-	150.9467	µg/mL	Unstressed
				+/-	151.3051	µg/mL	Stressed
39	Tetrachloroethene CAS # 127-18-4.SEC Purity 99%	(Lot F09W014)	2,501.7 µg/mL	+/-	14.5449	µg/mL	Gravimetric
				+/-	150.9366	µg/mL	Unstressed
				+/-	151.2950	µg/mL	Stressed

40	Dibromochloromethane CAS # 124-48-1.SEC Purity 97%	(Lot 10206360)	2,502.8	µg/mL	+/- +/- +/-	14.5513 151.0027 151.3612	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4.SEC Purity 99%	(Lot 8529900)	2,500.3	µg/mL	+/- +/- +/-	14.5372 150.8562 151.2143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7.SEC Purity 99%	(Lot 1161936)	2,500.7	µg/mL	+/- +/- +/-	14.5391 150.8763 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene CAS # 108-38-3.SEC Purity 99%	(Lot OUKMG-GB)	1,251.3	µg/mL	+/- +/- +/-	7.2922 75.5001 75.6793	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene CAS # 106-42-3.SEC Purity 99%	(Lot D6UOA)	1,250.3	µg/mL	+/- +/- +/-	7.2863 75.4398 75.6189	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene CAS # 100-41-4.SEC Purity 99%	(Lot PI4SE)	2,501.5	µg/mL	+/- +/- +/-	14.5439 150.9266 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane CAS # 630-20-6.SEC Purity 99%	(Lot 9366000)	2,501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6.SEC Purity 99%	(Lot FGL01)	2,501.8	µg/mL	+/- +/- +/-	14.5459 150.9467 151.3051	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5.SEC Purity 99%	(Lot QGQ7F)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8.SEC Purity 98%	(Lot WVREC)	2,501.0	µg/mL	+/- +/- +/-	14.5408 150.8940 151.2522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	Bromoform CAS # 75-25-2.SEC Purity 99%	(Lot 9170700)	2,501.2	µg/mL	+/- +/- +/-	14.5420 150.9065 151.2647	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Bromodichloromethane CAS # 75-27-4.SEC Purity 99%	(Lot 13780)	2,501.2	µg/mL	+/- +/- +/-	14.5420 150.9065 151.2647	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane CAS # 79-34-5.SEC Purity 98%	(Lot BCCB0724)	2,500.5	µg/mL	+/- +/- +/-	14.5379 150.8644 151.2226	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4.SEC Purity 99%	(Lot GUHZN)	2,500.8	µg/mL	+/- +/- +/-	14.5401 150.8864 151.2446	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-Dichloro-2-butene CAS # 110-57-6.SEC Purity 97%	(Lot 100700-3)	2,500.5	µg/mL	+/- +/- +/-	14.5381 150.8661 151.2243	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1.SEC Purity 99%	(Lot T2HFC)	2,501.0	µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1.SEC Purity 99%	(Lot 8DKWJ)	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8.SEC Purity 99%	(Lot TOOOOF)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8.SEC Purity 99%	(Lot SW8QG-AO)	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4.SEC Purity 99%	(Lot S5SKD)	2,501.3 µg/mL	+/- 14.5430 +/- 150.9165 +/- 151.2748	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6.SEC Purity 99%	(Lot D6OHC)	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6.SEC Purity 99%	(Lot JMIYD)	2,500.8 µg/mL	+/- 14.5401 +/- 150.8864 +/- 151.2446	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8.SEC Purity 99%	(Lot O4HRF)	2,501.3 µg/mL	+/- 14.5430 +/- 150.9165 +/- 151.2748	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	4-Isopropyltoluene (p-cymene) CAS # 99-87-6.SEC Purity 99%	(Lot 5221800)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1.SEC Purity 99%	(Lot FMDFD)	2,500.3 µg/mL	+/- 14.5372 +/- 150.8562 +/- 151.2143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7.SEC Purity 99%	(Lot 4Y5DC)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8.SEC Purity 99%	(Lot MMPGA)	2,500.3 µg/mL	+/- 14.5372 +/- 150.8562 +/- 151.2143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1.SEC Purity 99%	(Lot R6QDM)	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8.SEC Purity 99%	(Lot Q135-105)	2,500.8 µg/mL	+/- 14.5401 +/- 150.8864 +/- 151.2446	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1.SEC Purity 99%	(Lot IGLFA)	2,500.8 µg/mL	+/- 14.5401 +/- 150.8864 +/- 151.2446	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3.SEC Purity 97%	(Lot 10550800)	2,501.5 µg/mL	+/- 14.5438 +/- 150.9247 +/- 151.2830	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3.SEC Purity 99%	(Lot AM5NG)	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,501.7 µg/mL	+/-	14.5449	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	150.9366	µg/mL	Unstressed
	Purity 99%			+/-	151.2950	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

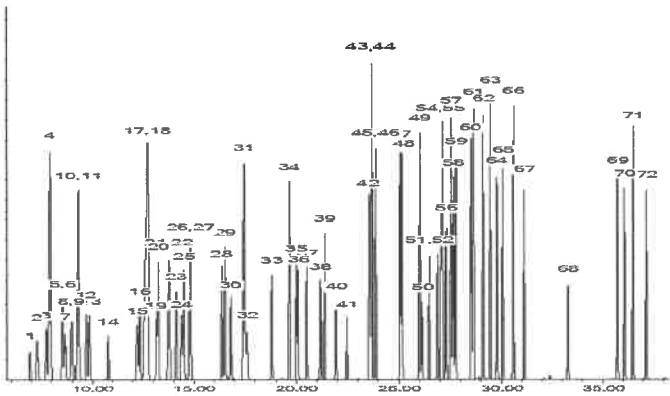
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J. Mays

Date Mixed: 13-Dec-2020 **Balance:** 1127510105

Justin Albertson
Justin Albertson - Operations Tech-ARM QC

Date Passed: 23-Dec-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-571992_00015



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0183568

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Diethyl ether (ethyl ether) CAS # 60-29-7 (Lot SHBN4280) Purity 99%	2,506.6 µg/mL	+/- 14.5737 µg/mL Gravimetric +/- 151.2358 µg/mL Unstressed +/- 151.5949 µg/mL Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 (Lot 00016133) Purity 99%	2,514.5 µg/mL	+/- 14.6195 µg/mL Gravimetric +/- 151.7109 µg/mL Unstressed +/- 152.0711 µg/mL Stressed
3	1,1-dichloroethene CAS # 75-35-4 (Lot SHBG8609V) Purity 99%	2,515.1 µg/mL	+/- 14.6232 µg/mL Gravimetric +/- 151.7486 µg/mL Unstressed +/- 152.1089 µg/mL Stressed
4	tert-Butanol (TBA) CAS # 75-65-0 (Lot 101619K21F-1) Purity 99%	25,080.8 µg/mL	+/- 145.8140 µg/mL Gravimetric +/- 1,513.2321 µg/mL Unstressed +/- 1,516.8247 µg/mL Stressed
5	Methyl acetate CAS # 79-20-9 (Lot SHBM1320) Purity 99%	5,026.6 µg/mL	+/- 29.2252 µg/mL Gravimetric +/- 303.2786 µg/mL Unstressed +/- 303.9986 µg/mL Stressed
6	Iodomethane (methyl iodide) CAS # 74-88-4 (Lot RD220125) Purity 99%	2,505.3 µg/mL	+/- 14.5657 µg/mL Gravimetric +/- 151.1528 µg/mL Unstressed +/- 151.5117 µg/mL Stressed
7	Allyl chloride (3-chloropropene) CAS # 107-05-1 (Lot RD211021) Purity 99%	2,509.1 µg/mL	+/- 14.5883 µg/mL Gravimetric +/- 151.3866 µg/mL Unstressed +/- 151.7460 µg/mL Stressed

8	Methylene chloride (dichloromethane) CAS # 75-09-2 (Lot SHBP1417) Purity 99%	2,513.3	µg/mL	+/-	14.6123	µg/mL	Gravimetric
				+/-	151.6355	µg/mL	Unstressed
				+/-	151.9955	µg/mL	Stressed
9	Carbon disulfide CAS # 75-15-0 (Lot N28F701) Purity 99%	2,510.1	µg/mL	+/-	14.5941	µg/mL	Gravimetric
				+/-	151.4470	µg/mL	Unstressed
				+/-	151.8065	µg/mL	Stressed
10	Acrylonitrile CAS # 107-13-1 (Lot SHBK4954) Purity 99%	25,102.9	µg/mL	+/-	145.9426	µg/mL	Gravimetric
				+/-	1,514.5670	µg/mL	Unstressed
				+/-	1,518.1628	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4 (Lot SHBN6497) Purity 99%	2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
				+/-	151.6657	µg/mL	Unstressed
				+/-	152.0258	µg/mL	Stressed
12	cis-1,2-Dichloroethene CAS # 156-59-2 (Lot MKCP7830) Purity 99%	2,515.1	µg/mL	+/-	14.6232	µg/mL	Gravimetric
				+/-	151.7486	µg/mL	Unstressed
				+/-	152.1089	µg/mL	Stressed
13	n-Hexane (C6) CAS # 110-54-3 (Lot SHBL9879) Purity 99%	2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
				+/-	151.7713	µg/mL	Unstressed
				+/-	152.1316	µg/mL	Stressed
14	1,1-Dichloroethane CAS # 75-34-3 (Lot 760200) Purity 99%	2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
				+/-	151.9146	µg/mL	Unstressed
				+/-	152.2752	µg/mL	Stressed
15	2,2-Dichloropropane CAS # 594-20-7 (Lot RD211103) Purity 99%	2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
				+/-	151.9146	µg/mL	Unstressed
				+/-	152.2752	µg/mL	Stressed
16	trans-1,2-Dichloroethene CAS # 156-60-5 (Lot MKBH9850V) Purity 99%	2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
				+/-	151.5224	µg/mL	Unstressed
				+/-	151.8821	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1 (Lot 098794J01H) Purity 99%	62,633.1	µg/mL	+/-	364.1354	µg/mL	Gravimetric
				+/-	3,778.9321	µg/mL	Unstressed
				+/-	3,787.9040	µg/mL	Stressed
18	chloroform CAS # 67-66-3 (Lot SHBN8469) Purity 99%	2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
				+/-	151.4922	µg/mL	Unstressed
				+/-	151.8519	µg/mL	Stressed
19	Bromochloromethane CAS # 74-97-5 (Lot 00008541) Purity 99%	2,517.0	µg/mL	+/-	14.6341	µg/mL	Gravimetric
				+/-	151.8618	µg/mL	Unstressed
				+/-	152.2223	µg/mL	Stressed
20	Tetrahydrofuran CAS # 109-99-9 (Lot SHBN3757) Purity 99%	5,036.1	µg/mL	+/-	29.2805	µg/mL	Gravimetric
				+/-	303.8517	µg/mL	Unstressed
				+/-	304.5731	µg/mL	Stressed
21	1,1,1-trichloroethane CAS # 71-55-6 (Lot RD220215) Purity 99%	2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
				+/-	151.4168	µg/mL	Unstressed
				+/-	151.7763	µg/mL	Stressed
22	Cyclohexane CAS # 110-82-7 (Lot EA003-US) Purity 99%	2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
				+/-	151.4394	µg/mL	Unstressed
				+/-	151.7990	µg/mL	Stressed
23	1,1-Dichloropropene CAS # 563-58-6 (Lot 220217JLM) Purity 99%	2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
				+/-	151.6657	µg/mL	Unstressed
				+/-	152.0258	µg/mL	Stressed

24	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBL8097)	2,513.5 µg/mL	+/-	14.6137 151.6506 152.0106	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot SGBL9221)	2,511.4 µg/mL	+/-	14.6014 151.5224 151.8821	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot MKCN9758)	2,514.4 µg/mL	+/-	14.6188 151.7034 152.0636	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene CAS # 71-43-2 Purity 99%	(Lot MKCM9242)	2,509.3 µg/mL	+/-	14.5890 151.3942 151.7536	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBL5816)	2,507.5 µg/mL	+/-	14.5788 151.2886 151.6478	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot SHBL0078)	2,510.3 µg/mL	+/-	14.5948 151.4545 151.8141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot BCBR0882V)	2,510.9 µg/mL	+/-	14.5984 151.4922 151.8519	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBM9675)	50,187.5 µg/mL	+/-	291.7792 3,028.0328 3,035.2219	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10201030)	2,511.0 µg/mL	+/-	14.5992 151.4998 151.8594	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot RD220311)	2,513.8 µg/mL	+/-	14.6152 151.6657 152.0258	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot MKCQ2779)	2,518.4 µg/mL	+/-	14.6420 151.9447 152.3055	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot MKCL0907)	2,511.4 µg/mL	+/-	14.6014 151.5224 151.8821	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 98%	(Lot RD211104)	2,504.5 µg/mL	+/-	14.5615 151.1083 151.4671	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,513.6 µg/mL	+/-	14.6144 151.6581 152.0182	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBC6265)	2,513.6 µg/mL	+/-	14.6144 151.6581 152.0182	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBJ7422)	2,507.5 µg/mL	+/-	14.5788 151.2886 151.6478	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane CAS # 124-48-1 Purity 99%	(Lot MKCM8659)	2,514.8	µg/mL	+/- +/- +/-	14.6210 151.7260 152.0862	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4 Purity 99%	(Lot BCCF5058)	2,513.9	µg/mL	+/- +/- +/-	14.6159 151.6732 152.0333	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7 Purity 99%	(Lot SHBL8110)	2,507.9	µg/mL	+/- +/- +/-	14.5810 151.3112 151.6704	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene CAS # 108-38-3 Purity 99%	(Lot Q13G020)	1,260.0	µg/mL	+/- +/- +/-	7.3257 76.0214 76.2019	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene CAS # 106-42-3 Purity 99%	(Lot 10234437)	1,258.6	µg/mL	+/- +/- +/-	7.3178 75.9384 76.1187	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBM4308)	2,516.0	µg/mL	+/- +/- +/-	14.6282 151.8014 152.1618	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane CAS # 630-20-6 Purity 99%	(Lot TMWKG)	2,519.1	µg/mL	+/- +/- +/-	14.6464 151.9900 152.3508	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6 Purity 98%	(Lot SHBN5105)	2,513.5	µg/mL	+/- +/- +/-	14.6134 151.6479 152.0079	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5 Purity 99%	(Lot MKCP3941)	2,509.1	µg/mL	+/- +/- +/-	14.5883 151.3866 151.7460	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8 Purity 99%	(Lot Z20D022)	2,518.5	µg/mL	+/- +/- +/-	14.6428 151.9523 152.3130	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform CAS # 75-25-2 Purity 98%	(Lot SHBK4455)	2,511.0	µg/mL	+/- +/- +/-	14.5992 151.5001 151.8597	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane CAS # 75-27-4 Purity 99%	(Lot MKCM7156)	2,518.1	µg/mL	+/- +/- +/-	14.6406 151.9296 152.2903	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane CAS # 79-34-5 Purity 99%	(Lot CFA4D)	2,515.5	µg/mL	+/- +/- +/-	14.6253 151.7713 152.1316	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4 Purity 99%	(Lot 332900)	2,512.5	µg/mL	+/- +/- +/-	14.6079 151.5903 151.9502	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene CAS # 110-57-6 Purity 95%	(Lot RD220405A)	2,511.8	µg/mL	+/- +/- +/-	14.6038 151.5480 151.9078	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1 Purity 99%	(Lot MKCN1126)	2,515.6	µg/mL	+/- +/- +/-	14.6261 151.7788 152.1392	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot MKBD4032V)	2,516.9 µg/mL	+/- 14.6333 +/- 151.8542 +/- 152.2147	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCCD0427)	2,512.3 µg/mL	+/- 14.6064 +/- 151.5752 +/- 151.9350	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKCF5243)	2,510.9 µg/mL	+/- 14.5984 +/- 151.4922 +/- 151.8519	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKCC8496)	2,513.1 µg/mL	+/- 14.6115 +/- 151.6280 +/- 151.9880	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot STBD6954V)	2,514.6 µg/mL	+/- 14.6202 +/- 151.7185 +/- 152.0787	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 98%	(Lot WXBC9428V)	2,517.1 µg/mL	+/- 14.6348 +/- 151.8696 +/- 152.2302	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKCN2920)	2,519.3 µg/mL	+/- 14.6471 +/- 151.9975 +/- 152.3584	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKCP6638)	2,512.0 µg/mL	+/- 14.6050 +/- 151.5601 +/- 151.9199	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBZ7498)	2,515.5 µg/mL	+/- 14.6253 +/- 151.7713 +/- 152.1316	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS4401V)	2,513.4 µg/mL	+/- 14.6130 +/- 151.6431 +/- 152.0031	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09418JJ)	2,511.0 µg/mL	+/- 14.5992 +/- 151.4998 +/- 151.8594	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBN3835)	2,511.4 µg/mL	+/- 14.6014 +/- 151.5224 +/- 151.8821	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 97%	(Lot HBMVB)	2,512.4 µg/mL	+/- 14.6074 +/- 151.5855 +/- 151.9454	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBM0526)	2,510.4 µg/mL	+/- 14.5955 +/- 151.4620 +/- 151.8216	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot X05J)	2,509.3 µg/mL	+/- 14.5890 +/- 151.3942 +/- 151.7536	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKCH0219)	2,520.6 µg/mL	+/- 14.6551 +/- 152.0805 +/- 152.4415	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,513.0 µg/mL	+/-	14.6108	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	151.6204	µg/mL	Unstressed
	Purity 99%			+/-	151.9804	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

60m x 0.25mm x 1.4µm
 Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

40°C (hold 6 min.) to 240°C
 @ 5°C/min. (hold 10 min.)

Inj. Temp:

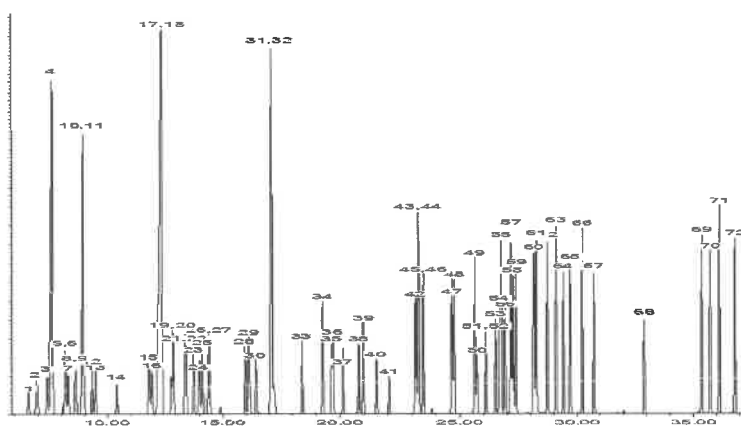
200°C

Det. Temp:

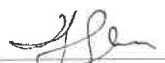
250°C

Det. Type:

MSD

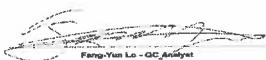


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


 Tom Suckar - Mix Technician

Date Mixed: 31-Mar-2022

Balance: B707717271


 Feng-Yun Lo - QC Analyst

Date Passed: 21-Apr-2022

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

Reagent

mv-571993.sec_00001



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993.sec **Lot No.:** A0123771
Description : 8260 List 3/ Std#1 Polar Additions (2017)
8260 List 3/ Std#1 Polar Additions (2017) 2500-25,000 µg/mL, 1 mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile CAS # 75-05-8.SEC (Lot 7KGDA) Purity 99%	25,091.5 µg/mL	+/- 146.9162 µg/mL Gravimetric +/- 1,241.3442 µg/mL Unstressed +/- 1,272.2054 µg/mL Stressed
2	Diisopropyl ether (DIPE) CAS # 108-20-3.SEC (Lot LL7TN-SH) Purity 98%	2,525.0 µg/mL	+/- 14.8179 µg/mL Gravimetric +/- 124.9211 µg/mL Unstressed +/- 128.0265 µg/mL Stressed
3	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3.SEC (Lot MHBIG-QK) Purity 99%	2,509.0 µg/mL	+/- 14.7242 µg/mL Gravimetric +/- 124.1310 µg/mL Unstressed +/- 127.2168 µg/mL Stressed
4	Propionitrile CAS # 107-12-0.SEC (Lot RTXQL) Purity 99%	25,125.5 µg/mL	+/- 147.1153 µg/mL Gravimetric +/- 1,243.0263 µg/mL Unstressed +/- 1,273.9293 µg/mL Stressed
5	tert-Amyl alcohol CAS # 75-85-4.SEC (Lot MMGO1) Purity 99%	25,056.0 µg/mL	+/- 146.7084 µg/mL Gravimetric +/- 1,239.5880 µg/mL Unstressed +/- 1,270.4054 µg/mL Stressed
6	tert-Amyl methyl ether (TAME) CAS # 994-05-8.SEC (Lot 5614600) Purity 99%	2,517.5 µg/mL	+/- 14.7741 µg/mL Gravimetric +/- 124.5515 µg/mL Unstressed +/- 127.6478 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

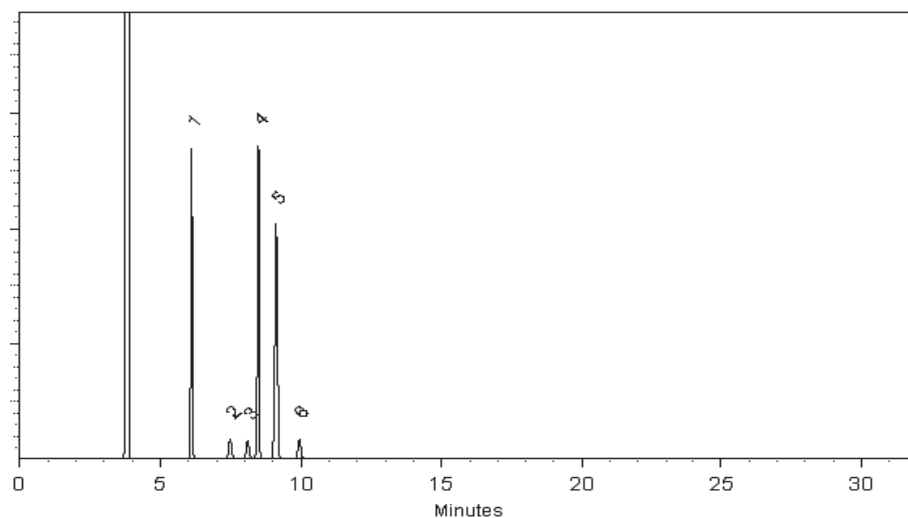
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bradley Meyer
Bradley Meyer - Mix Technician

Date Mixed: 27-Dec-2016 **Balance:** 1128342314

Amanda Miller
Amanda Miller - Operations Tech-ARM QC

Date Passed: 30-Dec-2016

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO Guides 34 and 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Samples should be transferred into deactivated vials for handling and storage. Restek supplies deactivated vials along with most standards packed in 2 mL ampules. Due to space constraints, Restek does not supply vials for larger volume ampules. Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions. Restek will also deactivate larger volume vials from our inventory as a custom ordered item. Contact your Restek sales or customer service representative for details.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

mv-571993.sec_00007



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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993.SEC Lot No.: A0170862

Description : 8260 List 3/ Std#1 Polar Additions (2017)
8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T
Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2023 Storage: 0°C or colder
Ship: Ambient

REC'D
12/13/21
Gr

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile CAS # 75-05-8.SEC (Lot JZJ3E) Purity 99%	25,020.7 µg/mL	+/- 146.5015 µg/mL Gravimetric +/- 1,237.8399 µg/mL Unstressed +/- 1,268.6139 µg/mL Stressed
2	Diisopropyl ether (DIPE) CAS # 108-20-3.SEC (Lot LL7TN-SH) Purity 99%	2,517.0 µg/mL	+/- 14.7712 µg/mL Gravimetric +/- 124.5268 µg/mL Unstressed +/- 127.6224 µg/mL Stressed
3	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3.SEC (Lot UCI5B) Purity 98%	2,513.0 µg/mL	+/- 14.7480 µg/mL Gravimetric +/- 124.3312 µg/mL Unstressed +/- 127.4220 µg/mL Stressed
4	Propionitrile CAS # 107-12-0.SEC (Lot N44LF) Purity 99%	25,200.0 µg/mL	+/- 147.5515 µg/mL Gravimetric +/- 1,246.7120 µg/mL Unstressed +/- 1,277.7066 µg/mL Stressed
5	tert-Amyl alcohol CAS # 75-85-4.SEC (Lot D87JO) Purity 99%	25,147.7 µg/mL	+/- 147.2451 µg/mL Gravimetric +/- 1,244.1230 µg/mL Unstressed +/- 1,275.0532 µg/mL Stressed
6	tert-Amyl methyl ether (TAME) CAS # 994-05-8.SEC (Lot 11010100) Purity 99%	2,516.7 µg/mL	+/- 14.7692 µg/mL Gravimetric +/- 124.5103 µg/mL Unstressed +/- 127.6055 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-S02.2 (cat.#10910)

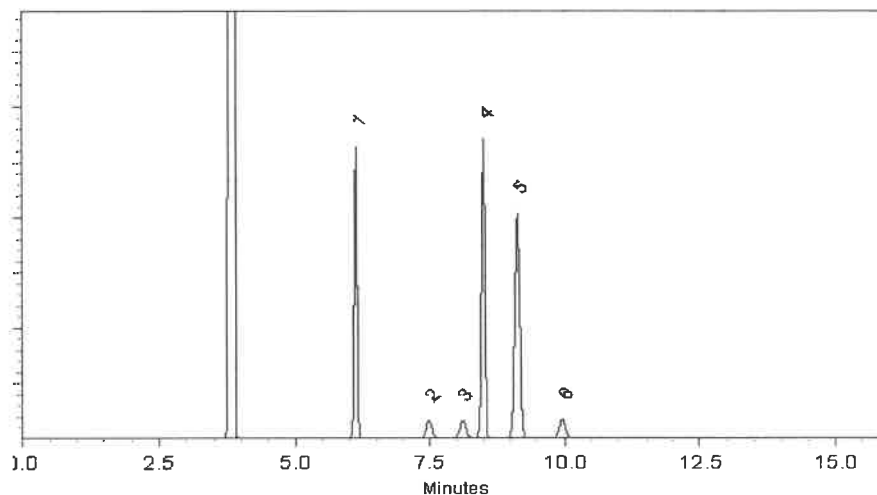
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

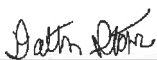
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dalton Stover - Operations Technician I

Date Mixed: 31-Mar-2021 **Balance:** 1128353505


Alexis Shelow - Operations Tech I

Date Passed: 02-Apr-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

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Catalog No. : 571993.SEC **Lot No.:** A0189867

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile CAS # 75-05-8.SEC (Lot 3ZDOE) Purity 99%	25,064.5 µg/mL	+/- 146.7582 µg/mL Gravimetric +/- 1,240.0085 µg/mL Unstressed +/- 1,270.8364 µg/mL Stressed
2	Diisopropyl ether (DIPE) CAS # 108-20-3.SEC (Lot LL7TN-SH) Purity 99%	2,511.0 µg/mL	+/- 14.7360 µg/mL Gravimetric +/- 124.2299 µg/mL Unstressed +/- 127.3182 µg/mL Stressed
3	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3.SEC (Lot UCI5B) Purity 98%	2,499.2 µg/mL	+/- 14.6667 µg/mL Gravimetric +/- 123.6459 µg/mL Unstressed +/- 126.7197 µg/mL Stressed
4	Propionitrile CAS # 107-12-0.SEC (Lot N44LF) Purity 99%	25,000.9 µg/mL	+/- 146.3858 µg/mL Gravimetric +/- 1,236.8620 µg/mL Unstressed +/- 1,267.6117 µg/mL Stressed
5	tert-Amyl alcohol CAS # 75-85-4.SEC (Lot REJPI) Purity 99%	25,023.6 µg/mL	+/- 146.5187 µg/mL Gravimetric +/- 1,237.9850 µg/mL Unstressed +/- 1,268.7627 µg/mL Stressed
6	tert-Amyl methyl ether (TAME) CAS # 994-05-8.SEC (Lot 12075100) Purity 98%	2,504.0 µg/mL	+/- 14.6949 µg/mL Gravimetric +/- 123.8835 µg/mL Unstressed +/- 126.9632 µg/mL Stressed

Handwritten signature and date: 12/5/22

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

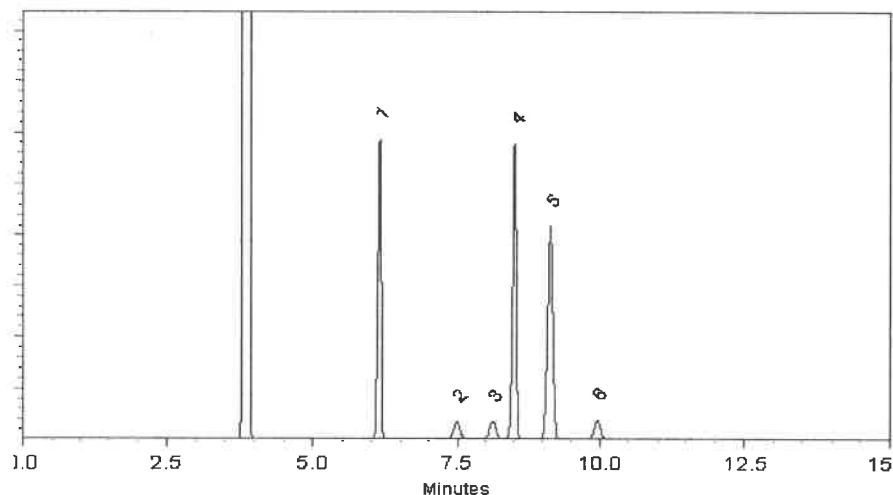
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Daniel Wasson - Operations Tech I

Date Mixed: 22-Sep-2022 **Balance:** 1128342314


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 26-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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Catalog No. : 571993 **Lot No.:** A0123796

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2500-25,000 µg/ml, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile CAS # 75-05-8 (Lot SHBB3177V) Purity 98%	25,004.5 µg/mL	+/- 145.3705 µg/mL Gravimetric +/- 1,236.9157 µg/mL Unstressed +/- 1,267.6727 µg/mL Stressed
2	Diisopropyl ether (DIPE) CAS # 108-20-3 (Lot SHBC0391V) Purity 99%	2,505.0 µg/mL	+/- 14.5643 µg/mL Gravimetric +/- 123.9170 µg/mL Unstressed +/- 126.9983 µg/mL Stressed
3	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3 (Lot MKBT8400V) Purity 99%	2,501.5 µg/mL	+/- 14.5439 µg/mL Gravimetric +/- 123.7438 µg/mL Unstressed +/- 126.8208 µg/mL Stressed
4	Propionitrile CAS # 107-12-0 (Lot BCBM6569V) Purity 99%	25,003.8 µg/mL	+/- 145.3664 µg/mL Gravimetric +/- 1,236.8808 µg/mL Unstressed +/- 1,267.6370 µg/mL Stressed
5	tert-Amyl alcohol CAS # 75-85-4 (Lot STBB1898V) Purity 99%	25,006.0 µg/mL	+/- 145.3794 µg/mL Gravimetric +/- 1,236.9921 µg/mL Unstressed +/- 1,267.7510 µg/mL Stressed
6	tert-Amyl methyl ether (TAME) CAS # 994-05-8 (Lot HMBD8698V) Purity 98%	2,505.4 µg/mL	+/- 14.5664 µg/mL Gravimetric +/- 123.9353 µg/mL Unstressed +/- 127.0170 µg/mL Stressed

Reagent

mv-571993_00007



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0172903

Description : 8260 List 3/ Std#1 Polar Additions (2017)
8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 0°C or colder

Ship: Ambient

REC'D
12/13/21
GM

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile CAS # 75-05-8 (Lot SHBH6233) Purity 99%	25,165.0 µg/mL	+/- 147.3466 µg/mL Gravimetric +/- 1,244.9805 µg/mL Unstressed +/- 1,275.9320 µg/mL Stressed
2	Diisopropyl ether (DIPE) CAS # 108-20-3 (Lot SHBH1927V) Purity 99%	2,519.5 µg/mL	+/- 14.7858 µg/mL Gravimetric +/- 124.6504 µg/mL Unstressed +/- 127.7492 µg/mL Stressed
3	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3 (Lot MKCM3774) Purity 99%	2,510.5 µg/mL	+/- 14.7330 µg/mL Gravimetric +/- 124.2052 µg/mL Unstressed +/- 127.2929 µg/mL Stressed
4	Propionitrile CAS # 107-12-0 (Lot BCCB0845) Purity 99%	25,132.5 µg/mL	+/- 147.1563 µg/mL Gravimetric +/- 1,243.3726 µg/mL Unstressed +/- 1,274.2842 µg/mL Stressed
5	tert-Amyl alcohol CAS # 75-85-4 (Lot STBB1898V) Purity 99%	25,074.0 µg/mL	+/- 146.8138 µg/mL Gravimetric +/- 1,240.4785 µg/mL Unstressed +/- 1,271.3181 µg/mL Stressed
6	tert-Amyl methyl ether (TAME) CAS # 994-05-8 (Lot HMBG7745V) Purity 99%	2,509.0 µg/mL	+/- 14.7242 µg/mL Gravimetric +/- 124.1310 µg/mL Unstressed +/- 127.2168 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

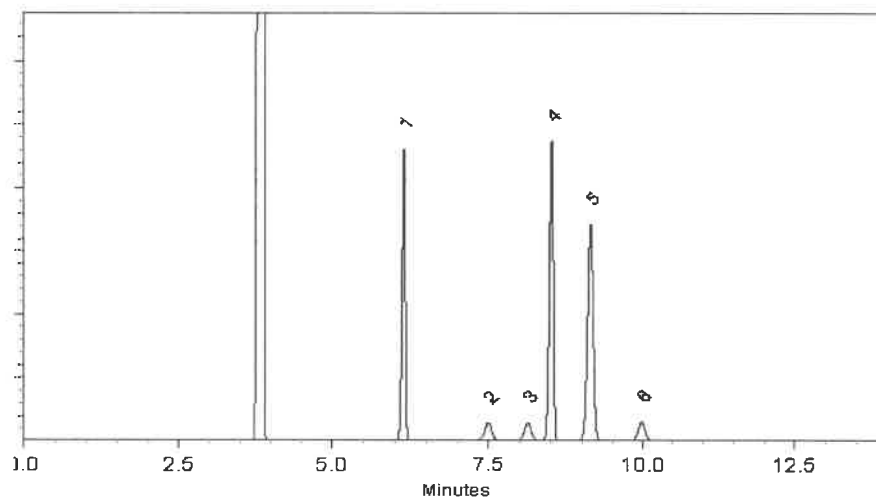
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

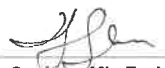
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

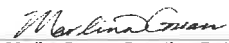


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 01-Jun-2021

Balance: B707717271


Marlene Cowan - Operations Tech I

Date Passed: 03-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

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Catalog No. : 571993 **Lot No.:** A0183035

Description : 8260 List 3/ Std#1 Polar Additions (2017)
8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T
Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile CAS # 75-05-8 (Lot SHBH6233) Purity 99%	25,214.8 µg/mL	+/- 147.6382 µg/mL Gravimetric +/- 1,247.4442 µg/mL Unstressed +/- 1,278.4570 µg/mL Stressed
2	Diisopropyl ether (DIPE) CAS # 108-20-3 (Lot STBK3450) Purity 99%	2,501.6 µg/mL	+/- 14.6808 µg/mL Gravimetric +/- 123.7649 µg/mL Unstressed +/- 126.8416 µg/mL Stressed
3	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3 (Lot MKCN9957) Purity 99%	2,516.8 µg/mL	+/- 14.7700 µg/mL Gravimetric +/- 124.5169 µg/mL Unstressed +/- 127.6123 µg/mL Stressed
4	Propionitrile CAS # 107-12-0 (Lot BCCB0845) Purity 99%	25,121.6 µg/mL	+/- 147.0925 µg/mL Gravimetric +/- 1,242.8334 µg/mL Unstressed +/- 1,273.7315 µg/mL Stressed
5	tert-Amyl alcohol CAS # 75-85-4 (Lot STBB1898V) Purity 99%	25,096.0 µg/mL	+/- 146.9426 µg/mL Gravimetric +/- 1,241.5669 µg/mL Unstressed +/- 1,272.4335 µg/mL Stressed
6	tert-Amyl methyl ether (TAME) CAS # 994-05-8 (Lot HMBG7745V) Purity 99%	2,518.0 µg/mL	+/- 14.7770 µg/mL Gravimetric +/- 124.5762 µg/mL Unstressed +/- 127.6731 µg/mL Stressed

OK 10/31/22

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

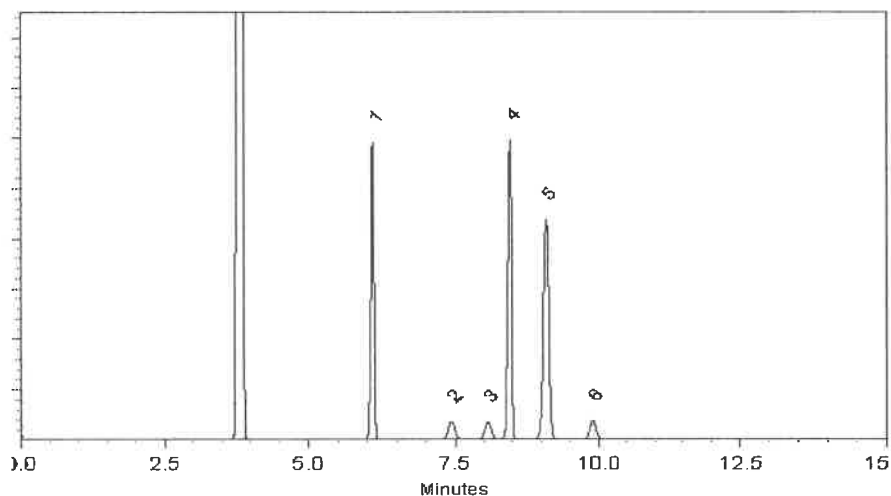
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Bethany Lowery - Operations Tech I

Date Mixed: 18-Mar-2022 Balance: B707717271


Feng-Yen Lo - QC Analyst

Date Passed: 22-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 571994.SEC Lot No.: A0186688
Description: 8260 Ethanol Standard
8260 Ethanol Standard 100,000µg/mL, P&T Methanol, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: June 30, 2025 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethanol	100,070.0 µg/mL	+/- 585.9319 µg/mL Gravimetric
	CAS # 64-17-5.SEC (Lot C19I26002)		+/- 2,143.6321 µg/mL Unstressed
	Purity 99%		+/- 2,205.8869 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Handwritten signature and date: 12/1/22

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.# 10910)

Carrier Gas:

hydrogen-constant pressure 11 psi.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

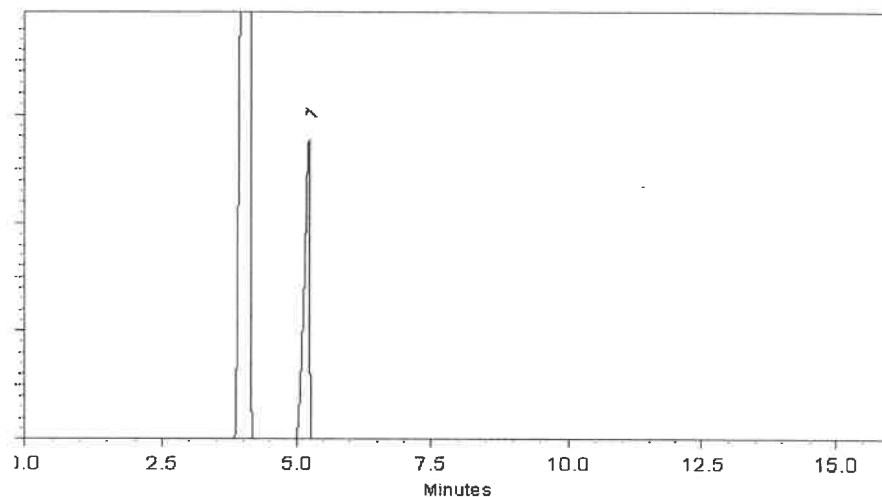
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bryan Snyder - Operations Tech I

Date Mixed: 27-Jun-2022

Balance: 1127510105

Christie Mills - Operations Tech II - ARM QC

Date Passed: 29-Jun-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571994 Lot No.: A0169978
Description : 8260 Ethanol Standard
8260 Ethanol Standard 100,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2024 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethanol CAS # 64-17-5 Purity 99% (Lot SHBM3719)	100,586.0 µg/mL	+/- 588.9228 µg/mL Gravimetric +/- 2,154.6772 µg/mL Unstressed +/- 2,217.2533 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2/3/22
MK

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.# 10910)

Carrier Gas:

hydrogen-constant pressure 11 psi.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 5°C/min.

Inj. Temp:

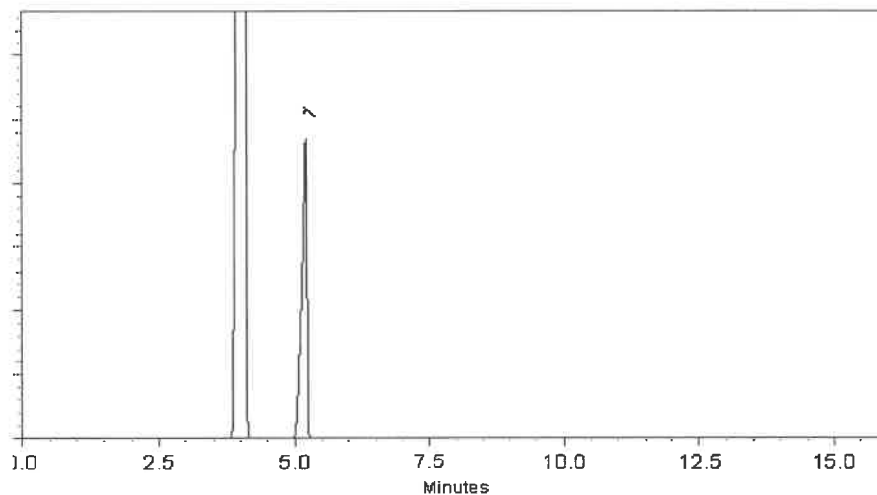
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 10-Mar-2021

Balance: B707717271

Alexis Shelow
Alexis Shelow - Operations Tech I

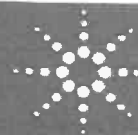
Date Passed: 16-Mar-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-CUS17739.s_00011

ISO 17034



Agilent

Trusted Answers

Reference Material Certificate

Product Name: Custom Standard**Lot Number:** 0006676357**Product Number:** CUS-17739**Lot Issue Date:** 15-Apr-2022**Storage Conditions:** Store Frozen (-25° to -10°C).**Expiration Date:** 31-May-2024

Component Name	CERTIFIED VALUES			CAS#	Analyte Lot
	Concentration	Expanded	Uncertainty		
1-chlorohexane	1004	±	5 µg/mL	000544-10-5	RM15291
2-pentanone	4019	±	20 µg/mL	000107-87-9	RM13478
sec-butanol	30105	±	151 µg/mL	000078-92-2	RM01299

Matrix: methanol (purge & trap grade)**Description:**

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSS Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

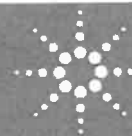
Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

Rec'd
7/4/22
JH

ISO 17034



Agilent

Trusted Answers

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois

QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015
Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/

CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Reagent

MV-CUS17739_00015

Reference Material Certificate
Product Information Sheet

Product Name: Custom Standard
Product Number: CUS-17739
Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006712667
Lot Issue Date: 08-Nov-2022
Expiration Date: 31-Dec-2024

Component Name	CERTIFIED VALUES		CAS#	Analyte Lot
	Concentration	Expanded Uncertainty		
1-chlorohexane	1004 ±	5 µg/mL	000544-10-5	RM04913
2-pentanone	4015 ±	20 µg/mL	000107-87-9	RM13478
sec-butanol	30099 ±	150 µg/mL	000078-92-2	RM13506

Matrix: methanol (purge & trap grade)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

*Rev'd
3/17/23 JK*

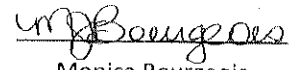


The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO
9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.1

ISO 17025

Reagent

mv-IS/SS Tune_00001



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570812 **Lot No.:** A0143593

Description : 8260 IS/Surrogate Mix (2016)

8260 IS/Surrogate Mix (2016) 250-5,000µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 Purity 98% (Lot CD-107)	5,000.1 µg/mL	+/- 29.0694 µg/mL Gravimetric +/- 107.0521 µg/mL Unstressed +/- 110.1643 µg/mL Stressed
2	Dibromofluoromethane CAS # 1868-53-7 Purity 99% (Lot 0012017)	250.2 µg/mL	+/- 1.4580 µg/mL Gravimetric +/- 5.3577 µg/mL Unstressed +/- 5.5134 µg/mL Stressed
3	1,2-Dichloroethane-d4 CAS # 17060-07-0 Purity 99% (Lot PR-29377)	250.3 µg/mL	+/- 1.4584 µg/mL Gravimetric +/- 5.3592 µg/mL Unstressed +/- 5.5149 µg/mL Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 Purity 99% (Lot I-19942)	5,000.5 µg/mL	+/- 29.0716 µg/mL Gravimetric +/- 107.0602 µg/mL Unstressed +/- 110.1726 µg/mL Stressed
5	Fluorobenzene CAS # 462-06-6 Purity 99% (Lot BCBK8171V)	250.1 µg/mL	+/- 1.4573 µg/mL Gravimetric +/- 5.3549 µg/mL Unstressed +/- 5.5105 µg/mL Stressed
6	Toluene-d8 CAS # 2037-26-5 Purity 99% (Lot PR-27311)	250.1 µg/mL	+/- 1.4575 µg/mL Gravimetric +/- 5.3556 µg/mL Unstressed +/- 5.5112 µg/mL Stressed
7	Chlorobenzene-d5 CAS # 3114-55-4 Purity 99% (Lot PR-23926)	250.5 µg/mL	+/- 1.4600 µg/mL Gravimetric +/- 5.3649 µg/mL Unstressed +/- 5.5208 µg/mL Stressed

8	1-Bromo-4-fluorobenzene (BFB)			250.1	µg/mL	+/-	1.4575	µg/mL	Gravimetric		
	CAS #	460-00-4	(Lot 20401KO)			+/-	5.3556			µg/mL	Unstressed
	Purity	99%				+/-	5.5112			µg/mL	Stressed
9	1,4-Dichlorobenzene-d4			250.2	µg/mL	+/-	1.4580	µg/mL	Gravimetric		
	CAS #	3855-82-1	(Lot PR-18488)			+/-	5.3577			µg/mL	Unstressed
	Purity	99%				+/-	5.5134			µg/mL	Stressed
Solvent:	P&T Methanol										
	CAS #	67-56-1									
	Purity	99%									

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

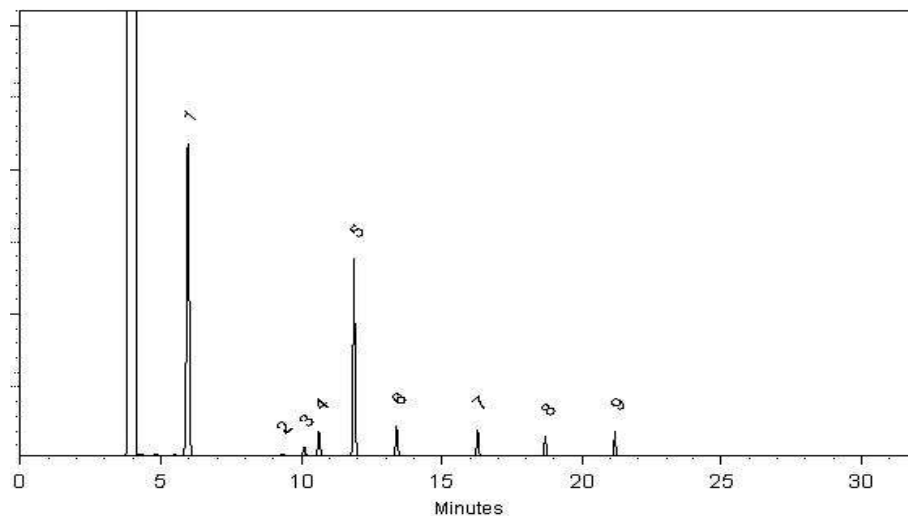
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

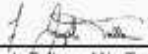
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

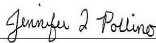


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


F. Joseph Tallon - Mix Technician

Date Mixed: 29-Nov-2018

Balance: B251644995


Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 18-Dec-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MV-ST5110N1_00066

4-Bromofluorobenzene Solution

Product Number: STS-110N

Page: 1 of 1

Lot Number: CH-3248Z

Lot Issue Date: 31-Aug-2016

Expiration Date: 31-Oct-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
4-bromofluorobenzene	000460-00-4	RM03365	2005 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store Frozen (-25° to -10°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Reagent

mv-VO-TAOH-5_00013

SPeXertificate®

Certificate of Reference Material

Catalog Number: VO-TAOH-5

Lot No. CP211214011

Description: Custom Organic Standard

Manufactured Date: December 14, 2021

Matrix: Methanol (Purge & Trap Grade)

Expiration Date: June 12, 2022

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
Ethylene oxide	75-21-8	50000 µg/mL	99.8%	50021 µg/mL	± 1801 µg/mL
cis-1,4-Dichloro-2-butene	1476-11-5	1000 µg/mL	95%	1013 µg/mL	± 36 µg/mL
Propylene oxide	75-56-9	50000 µg/mL	99%	49632 µg/mL	± 1787 µg/mL
Tetrahydrothiophene	110-01-0	1000 µg/mL	99%	1015 µg/mL	± 37 µg/mL

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: December 14, 2021

Certifying Officer: Shannon Macieira
Shannon Macieira, Operations Manager

Report of Certification

Catalog Number: VO-TAOH-5
Description: Custom Organic Standard
Matrix: Methanol (Purge & Trap Grade)

Lot No. CP211214011

Manufactured Date: December 14, 2021
Expiration Date: June 12, 2022

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001 (certified by DQS) and ISO 17025 (accredited by A2LA), and ISO 17034 (accredited by A2LA) quality system consistent with the following standards:

- ISO 9001: Quality management systems - Requirements
- ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories
- ISO 17034: General requirements for the competence of reference material producers
- ISO Guide 30: Reference Materials - Selected terms and definitions
- ISO Guide 31: Reference Materials - Contents of certificates and labels
- ISO Guide 35: Reference Materials - General and Statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement, 2008
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurement - Third Edition
- NIST Technical Note 1297

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a freezer (-35°C to -10°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and applicable only if the product is stored under the laboratory specified conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025, ISO 17034, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%.

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = k u_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i , where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

SPEX CertiPrep 

Your Science is Our Passion.®

203 Norcross Ave. Metuchen, NJ 08840
www.spexcrtiprep.com • E-mail: crmsales@spexcsp.com
Phone: 1-732-549-7144 • Fax 1-732-603-9647



Reagent

Z-020209-01.b_00001



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020209-01-SS	488067	-18°C +/- 4°C	P/T Methanol	8/30/2024	cis-1,4-Dichloro-2-butene Solution, 1000 mg/L, 1 ml Second Source
Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L	
cis-1,4-dichloro-2-butene	1476-11-5	98	209.1.5.1S	999.8 ± 14.67	

*Not a certified value

Raw
9/2022

Certified By: _____

Sanquetta Coakley
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

8260D

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Denver

Job No.: 280-179475-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): RXI-624SilM ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
RW-2172F-20230718	280-179475-1	91	91	100	101
RW-2203H-20230719	280-179475-2	105	113	101	104
RW-8030P-20230720	280-179475-3	106	114	100	104
RW-2879M-20230720	280-179475-4	106	110	102	103
RW-2151H-20230720	280-179475-5	105	111	101	103
RW-2237H-20230720	280-179475-6	104	112	103	103
RW-7200P-20230720	280-179475-7	103	110	103	103
RW-8105PS-20230720	280-179475-8	106	110	101	102
RW-7505P-20230720	280-179475-9	106	111	102	102
RW-7505P-Q-20230720	280-179475-10	107	110	105	102
TB-01-20230723	280-179475-11	102	109	99	105
RW-2140H-20230723	280-179475-12	103	109	100	105
PA-3-20230722	280-179475-13	103	109	101	103
	MB 280-621382/9	92	93	96	98
	MB 280-621621/9	104	113	102	103
	MB 280-621775/9	102	105	102	104
	LCS 280-621382/4	93	93	100	101
	LCS 280-621382/5	95	92	100	101
	LCS 280-621621/4	99	106	100	101
	LCS 280-621621/5	103	107	100	107
	LCS 280-621775/4	101	106	102	103
	LCS 280-621775/5	102	105	101	107
	LCSD 280-621382/6	94	91	100	103
	LCSD 280-621382/7	93	90	99	103
	LCSD 280-621621/6	101	107	98	102
	LCSD 280-621621/7	102	109	100	107
	LCSD 280-621775/6	100	106	100	103
	LCSD 280-621775/7	100	106	100	108
PA-3-20230722 MS	280-179475-13 MS	100	105	99	103
PA-3-20230722 MSD	280-179475-13 MSD	101	107	101	102

QC LIMITS

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

77-120
70-127
80-125
78-120

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MS13_004051A.D
 Lab ID: LCS 280-621382/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	59.5	119	74-121	
1,1,1-Trichloroethane	50.0	53.9	108	62-132	
1,1,2,2-Tetrachloroethane	50.0	52.9	106	72-122	
1,1,2-Trichloroethane	50.0	51.1	102	72-128	
1,1-Dichloroethane	50.0	50.6	101	66-130	
1,1-Dichloroethene	50.0	50.3	101	62-130	
1,1-Dichloropropene	50.0	50.9	102	64-133	
1,2,3-Trichloropropane	50.0	52.6	105	74-123	
1,2-Dibromo-3-Chloropropane	50.0	51.2	102	58-122	
1,2-Dichlorobenzene	50.0	52.7	105	77-121	
1,2-Dichloroethane	50.0	47.0	94	61-130	
1,2-Dichloropropane	50.0	51.1	102	68-127	
1,3-Dichlorobenzene	50.0	51.2	102	76-121	
1,3-Dichloropropane	50.0	53.6	107	80-118	
1,4-Dichlorobenzene	50.0	55.0	110	76-119	
2,2-Dichloropropane	50.0	56.5	113	57-140	
2-Hexanone	200	187	94	58-134	
4-Methyl-2-pentanone (MIBK)	200	180	90	56-135	
Acetone	200	179	89	50-137	
Benzene	50.0	50.8	102	69-126	
Bromoform	50.0	56.1	112	57-125	
Bromomethane	50.0	54.4	109	25-163	
Carbon disulfide	50.0	45.4	91	56-128	
Carbon tetrachloride	50.0	55.5	111	60-133	
Chlorobenzene	50.0	52.6	105	78-118	
Chlorobromomethane	50.0	50.9	102	71-130	
Chlorodibromomethane	50.0	60.2	120	71-122	
Chloroethane	50.0	50.5	101	52-144	
Chloroform	50.0	51.5	103	68-128	
Chloromethane	50.0	52.5	105	43-142	
cis-1,2-Dichloroethene	50.0	48.7	97	69-126	
cis-1,3-Dichloropropene	50.0	58.0	116	75-120	
Dibromomethane	50.0	47.8	96	68-129	
Dichlorobromomethane	50.0	52.9	106	67-126	
Dichlorodifluoromethane	50.0	53.3	107	26-152	
Ethylbenzene	50.0	54.8	110	76-121	
Iodomethane	50.0	51.6	103	37-145	
Isobutyl alcohol	1250	974	78	46-132	
Methylene Chloride	50.0	51.4	103	64-128	
m-Xylene & p-Xylene	50.0	54.4	109	76-122	
o-Xylene	50.0	54.9	110	77-120	
Styrene	50.0	56.0	112	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MS13_004051A.D
 Lab ID: LCS 280-621382/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	54.9	110	72-127	
Toluene	50.0	50.3	101	68-127	
trans-1,2-Dichloroethene	50.0	49.5	99	66-129	
trans-1,3-Dichloropropene	50.0	51.8	104	66-127	
Trichloroethene	50.0	53.7	107	70-125	
Trichlorofluoromethane	50.0	48.7	97	57-144	
Vinyl acetate	100	102	102	61-139	
Vinyl chloride	50.0	53.9	108	53-141	
Xylenes, Total	100	109	109	77-120	
2-Butanone (MEK)	200	166	83	53-135	
Acrolein	494	788	160	10-207	
Acrylonitrile	500	431	86	65-133	
1,2-Dibromoethane	50.0	54.1	108	81-118	
1,2,4-Trichlorobenzene	50.0	52.0	104	73-124	
Allyl chloride	50.0	48.9	98	57-136	
Ethyl methacrylate	50.0	56.3	113	69-126	
trans-1,4-Dichloro-2-butene	50.0	80.9	162	44-131	*+

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: MS13_004049A.D
Lab ID: LCS 280-621382/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroprene	25.0	20.3	81	53-147	
Acetonitrile	250	159	63	45-142	
Methacrylonitrile	250	193	77	47-142	
Methyl methacrylate	50.0	42.7	85	60-131	
Propionitrile	250	173	69	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6730c.D
 Lab ID: LCS 280-621621/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	52.1	104	74-121	
1,1,1-Trichloroethane	50.0	52.4	105	62-132	
1,1,2,2-Tetrachloroethane	50.0	47.8	96	72-122	
1,1,2-Trichloroethane	50.0	52.7	105	72-128	
1,1-Dichloroethane	50.0	52.7	105	66-130	
1,1-Dichloroethene	50.0	50.1	100	62-130	
1,1-Dichloropropene	50.0	52.4	105	64-133	
1,2,3-Trichloropropane	50.0	52.7	105	74-123	
1,2-Dibromo-3-Chloropropane	50.0	48.9	98	58-122	
1,2-Dichlorobenzene	50.0	51.5	103	77-121	
1,2-Dichloroethane	50.0	55.1	110	61-130	
1,2-Dichloropropane	50.0	53.5	107	68-127	
1,3-Dichlorobenzene	50.0	50.2	100	76-121	
1,3-Dichloropropane	50.0	54.5	109	80-118	
1,4-Dichlorobenzene	50.0	48.4	97	76-119	
2,2-Dichloropropane	50.0	45.7	91	57-140	
2-Hexanone	200	229	115	58-134	
4-Methyl-2-pentanone (MIBK)	200	219	109	56-135	
Acetone	200	220	110	50-137	
Benzene	50.0	51.7	103	69-126	
Bromoform	50.0	52.0	104	57-125	
Bromomethane	50.0	36.8	74	25-163	
Carbon disulfide	50.0	47.6	95	56-128	
Carbon tetrachloride	50.0	52.9	106	60-133	
Chlorobenzene	50.0	49.9	100	78-118	
Chlorobromomethane	50.0	53.9	108	71-130	
Chlorodibromomethane	50.0	52.1	104	71-122	
Chloroethane	50.0	49.1	98	52-144	
Chloroform	50.0	52.8	106	68-128	
Chloromethane	50.0	50.1	100	43-142	
cis-1,2-Dichloroethene	50.0	50.0	100	69-126	
cis-1,3-Dichloropropene	50.0	51.7	103	75-120	
Dibromomethane	50.0	52.3	105	68-129	
Dichlorobromomethane	50.0	54.3	109	67-126	
Dichlorodifluoromethane	50.0	50.9	102	26-152	
Ethylbenzene	50.0	51.9	104	76-121	
Iodomethane	50.0	50.2	100	37-145	
Isobutyl alcohol	1250	1380	111	46-132	
Methylene Chloride	50.0	49.7	99	64-128	
m-Xylene & p-Xylene	50.0	51.3	103	76-122	
o-Xylene	50.0	53.4	107	77-120	
Styrene	50.0	55.4	111	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6730c.D
 Lab ID: LCS 280-621621/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	49.6	99	72-127	
Toluene	50.0	51.0	102	68-127	
trans-1,2-Dichloroethene	50.0	49.2	98	66-129	
trans-1,3-Dichloropropene	50.0	52.7	105	66-127	
Trichloroethene	50.0	55.0	110	70-125	
Trichlorofluoromethane	50.0	50.0	100	57-144	
Vinyl acetate	100	51.9	52	61-139	*-
Vinyl chloride	50.0	51.6	103	53-141	
Xylenes, Total	100	105	105	77-120	
2-Butanone (MEK)	200	233	117	53-135	
Acrolein	494	490	99	10-207	
Acrylonitrile	500	581	116	65-133	
1,2-Dibromoethane	50.0	53.9	108	81-118	
1,2,4-Trichlorobenzene	50.0	46.7	93	73-124	
Allyl chloride	50.0	47.3	95	57-136	
Ethyl methacrylate	50.0	51.7	103	69-126	
trans-1,4-Dichloro-2-butene	50.0	51.9	104	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: R_6731aa.D
Lab ID: LCS 280-621621/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroprene	25.0	31.1	124	53-147	
Acetonitrile	250	368	147	45-142	*+
Methacrylonitrile	250	343	137	47-142	
Methyl methacrylate	50.0	44.9	90	60-131	
Propionitrile	250	280	112	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6787bb.D
 Lab ID: LCS 280-621775/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	52.1	104	74-121	
1,1,1-Trichloroethane	50.0	52.7	105	62-132	
1,1,2,2-Tetrachloroethane	50.0	52.0	104	72-122	
1,1,2-Trichloroethane	50.0	51.9	104	72-128	
1,1-Dichloroethane	50.0	52.0	104	66-130	
1,1-Dichloroethene	50.0	49.5	99	62-130	
1,1-Dichloropropene	50.0	52.8	106	64-133	
1,2,3-Trichloropropane	50.0	51.6	103	74-123	
1,2-Dibromo-3-Chloropropane	50.0	48.2	96	58-122	
1,2-Dichlorobenzene	50.0	49.8	100	77-121	
1,2-Dichloroethane	50.0	53.1	106	61-130	
1,2-Dichloropropane	50.0	53.0	106	68-127	
1,3-Dichlorobenzene	50.0	49.1	98	76-121	
1,3-Dichloropropane	50.0	54.7	109	80-118	
1,4-Dichlorobenzene	50.0	47.8	96	76-119	
2,2-Dichloropropane	50.0	46.2	92	57-140	
2-Hexanone	200	222	111	58-134	
4-Methyl-2-pentanone (MIBK)	200	214	107	56-135	
Acetone	200	210	105	50-137	
Benzene	50.0	51.6	103	69-126	
Bromoform	50.0	50.6	101	57-125	
Bromomethane	50.0	34.5	69	25-163	
Carbon disulfide	50.0	46.6	93	56-128	
Carbon tetrachloride	50.0	52.6	105	60-133	
Chlorobenzene	50.0	49.5	99	78-118	
Chlorobromomethane	50.0	52.4	105	71-130	
Chlorodibromomethane	50.0	51.2	102	71-122	
Chloroethane	50.0	47.6	95	52-144	
Chloroform	50.0	51.4	103	68-128	
Chloromethane	50.0	48.2	96	43-142	
cis-1,2-Dichloroethene	50.0	50.0	100	69-126	
cis-1,3-Dichloropropene	50.0	52.8	106	75-120	
Dibromomethane	50.0	50.8	102	68-129	
Dichlorobromomethane	50.0	53.0	106	67-126	
Dichlorodifluoromethane	50.0	53.5	107	26-152	
Ethylbenzene	50.0	51.6	103	76-121	
Iodomethane	50.0	43.7	87	37-145	
Isobutyl alcohol	1250	1260	101	46-132	
Methylene Chloride	50.0	48.8	98	64-128	
m-Xylene & p-Xylene	50.0	53.6	107	76-122	
o-Xylene	50.0	53.9	108	77-120	
Styrene	50.0	54.5	109	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6787bb.D
 Lab ID: LCS 280-621775/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	50.6	101	72-127	
Toluene	50.0	51.1	102	68-127	
trans-1,2-Dichloroethene	50.0	48.9	98	66-129	
trans-1,3-Dichloropropene	50.0	51.9	104	66-127	
Trichloroethene	50.0	51.7	103	70-125	
Trichlorofluoromethane	50.0	54.0	108	57-144	
Vinyl acetate	100	99.0	99	61-139	
Vinyl chloride	50.0	51.4	103	53-141	
Xylenes, Total	100	108	108	77-120	
2-Butanone (MEK)	200	228	114	53-135	
Acrolein	494	481	97	10-207	
Acrylonitrile	500	557	111	65-133	
1,2-Dibromoethane	50.0	53.1	106	81-118	
1,2,4-Trichlorobenzene	50.0	47.2	94	73-124	
Allyl chloride	50.0	48.1	96	57-136	
Ethyl methacrylate	50.0	52.7	105	69-126	
trans-1,4-Dichloro-2-butene	50.0	49.7	99	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: R_6788b.D
Lab ID: LCS 280-621775/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroprene	25.0	31.1	124	53-147	
Acetonitrile	250	359	144	45-142	*+
Methacrylonitrile	250	334	133	47-142	
Methyl methacrylate	50.0	45.8	92	60-131	
Propionitrile	250	274	109	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MS13_004052.D
 Lab ID: LCSD 280-621382/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	60.6	121	2	20	74-121	
1,1,1-Trichloroethane	50.0	55.5	111	3	20	62-132	
1,1,2,2-Tetrachloroethane	50.0	54.2	108	2	20	72-122	
1,1,2-Trichloroethane	50.0	52.0	104	2	20	72-128	
1,1-Dichloroethane	50.0	51.9	104	3	20	66-130	
1,1-Dichloroethene	50.0	53.0	106	5	21	62-130	
1,1-Dichloropropene	50.0	53.1	106	4	20	64-133	
1,2,3-Trichloropropane	50.0	52.6	105	0	20	74-123	
1,2-Dibromo-3-Chloropropane	50.0	51.0	102	0	21	58-122	
1,2-Dichlorobenzene	50.0	55.0	110	4	20	77-121	
1,2-Dichloroethane	50.0	48.2	96	3	20	61-130	
1,2-Dichloropropane	50.0	51.4	103	1	20	68-127	
1,3-Dichlorobenzene	50.0	52.8	106	3	20	76-121	
1,3-Dichloropropane	50.0	55.0	110	3	20	80-118	
1,4-Dichlorobenzene	50.0	56.7	113	3	20	76-119	
2,2-Dichloropropane	50.0	57.3	115	1	22	57-140	
2-Hexanone	200	187	94	0	21	58-134	
4-Methyl-2-pentanone (MIBK)	200	179	90	0	20	56-135	
Acetone	200	174	87	3	21	50-137	
Benzene	50.0	51.6	103	2	20	69-126	
Bromoform	50.0	58.4	117	4	20	57-125	
Bromomethane	50.0	55.5	111	2	40	25-163	
Carbon disulfide	50.0	47.0	94	3	20	56-128	
Carbon tetrachloride	50.0	57.7	115	4	20	60-133	
Chlorobenzene	50.0	55.1	110	5	20	78-118	
Chlorobromomethane	50.0	51.3	103	1	20	71-130	
Chlorodibromomethane	50.0	61.7	123	2	20	71-122	*+
Chloroethane	50.0	51.2	102	1	30	52-144	
Chloroform	50.0	52.8	106	3	20	68-128	
Chloromethane	50.0	52.6	105	0	20	43-142	
cis-1,2-Dichloroethene	50.0	49.5	99	2	20	69-126	
cis-1,3-Dichloropropene	50.0	59.5	119	3	20	75-120	
Dibromomethane	50.0	49.1	98	3	20	68-129	
Dichlorobromomethane	50.0	54.3	109	3	20	67-126	
Dichlorodifluoromethane	50.0	56.9	114	7	21	26-152	
Ethylbenzene	50.0	57.7	115	5	20	76-121	
Iodomethane	50.0	52.7	105	2	38	37-145	
Isobutyl alcohol	1250	918	73	6	30	46-132	
Methylene Chloride	50.0	51.9	104	1	20	64-128	
m-Xylene & p-Xylene	50.0	57.6	115	6	20	76-122	
o-Xylene	50.0	56.9	114	4	20	77-120	
Styrene	50.0	57.3	115	2	20	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MS13_004052.D
 Lab ID: LCSD 280-621382/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Tetrachloroethene	50.0	57.4	115	5	20	72-127	
Toluene	50.0	51.0	102	1	20	68-127	
trans-1,2-Dichloroethene	50.0	51.5	103	4	20	66-129	
trans-1,3-Dichloropropene	50.0	52.3	105	1	20	66-127	
Trichloroethene	50.0	55.9	112	4	20	70-125	
Trichlorofluoromethane	50.0	49.7	99	2	28	57-144	
Vinyl acetate	100	103	103	1	23	61-139	
Vinyl chloride	50.0	55.1	110	2	25	53-141	
Xylenes, Total	100	115	115	5	20	77-120	
2-Butanone (MEK)	200	161	81	3	20	53-135	
Acrolein	494	806	163	2	23	10-207	
Acrylonitrile	500	421	84	2	20	65-133	
1,2-Dibromoethane	50.0	55.0	110	2	20	81-118	
1,2,4-Trichlorobenzene	50.0	53.5	107	3	20	73-124	
Allyl chloride	50.0	49.7	99	2	20	57-136	
Ethyl methacrylate	50.0	58.7	117	4	20	69-126	
trans-1,4-Dichloro-2-butene	50.0	82.4	165	2	24	44-131	*+

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MS13_004053.D
 Lab ID: LCSD 280-621382/7 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloroprene	25.0	19.6	79	3	20	53-147	
Acetonitrile	250	153	61	4	20	45-142	
Methacrylonitrile	250	184	74	5	20	47-142	
Methyl methacrylate	50.0	40.5	81	5	20	60-131	
Propionitrile	250	163	65	6	20	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6732.D
 Lab ID: LCSD 280-621621/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	49.9	100	4	20	74-121	
1,1,1-Trichloroethane	50.0	53.3	107	2	20	62-132	
1,1,2,2-Tetrachloroethane	50.0	50.5	101	5	20	72-122	
1,1,2-Trichloroethane	50.0	51.4	103	3	20	72-128	
1,1-Dichloroethane	50.0	51.1	102	3	20	66-130	
1,1-Dichloroethene	50.0	50.3	101	0	21	62-130	
1,1-Dichloropropene	50.0	53.7	107	2	20	64-133	
1,2,3-Trichloropropane	50.0	48.1	96	9	20	74-123	
1,2-Dibromo-3-Chloropropane	50.0	41.3	83	17	21	58-122	
1,2-Dichlorobenzene	50.0	48.8	98	5	20	77-121	
1,2-Dichloroethane	50.0	52.8	106	4	20	61-130	
1,2-Dichloropropane	50.0	51.9	104	3	20	68-127	
1,3-Dichlorobenzene	50.0	48.0	96	5	20	76-121	
1,3-Dichloropropane	50.0	51.3	103	6	20	80-118	
1,4-Dichlorobenzene	50.0	47.1	94	3	20	76-119	
2,2-Dichloropropane	50.0	54.9	110	18	22	57-140	
2-Hexanone	200	204	102	12	21	58-134	
4-Methyl-2-pentanone (MIBK)	200	207	104	6	20	56-135	
Acetone	200	205	103	7	21	50-137	
Benzene	50.0	51.2	102	1	20	69-126	
Bromoform	50.0	46.8	94	11	20	57-125	
Bromomethane	50.0	38.8	78	5	40	25-163	
Carbon disulfide	50.0	47.2	94	1	20	56-128	
Carbon tetrachloride	50.0	54.5	109	3	20	60-133	
Chlorobenzene	50.0	47.7	95	4	20	78-118	
Chlorobromomethane	50.0	50.9	102	6	20	71-130	
Chlorodibromomethane	50.0	49.5	99	5	20	71-122	
Chloroethane	50.0	45.0	90	9	30	52-144	
Chloroform	50.0	51.8	104	2	20	68-128	
Chloromethane	50.0	42.4	85	17	20	43-142	
cis-1,2-Dichloroethene	50.0	49.8	100	0	20	69-126	
cis-1,3-Dichloropropene	50.0	50.8	102	2	20	75-120	
Dibromomethane	50.0	50.5	101	3	20	68-129	
Dichlorobromomethane	50.0	53.2	106	2	20	67-126	
Dichlorodifluoromethane	50.0	44.0	88	15	21	26-152	
Ethylbenzene	50.0	49.4	99	5	20	76-121	
Iodomethane	50.0	49.2	98	2	38	37-145	
Isobutyl alcohol	1250	1200	96	14	30	46-132	
Methylene Chloride	50.0	48.1	96	3	20	64-128	
m-Xylene & p-Xylene	50.0	49.6	99	4	20	76-122	
o-Xylene	50.0	51.2	102	4	20	77-120	
Styrene	50.0	52.3	105	6	20	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6732.D
 Lab ID: LCSD 280-621621/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Tetrachloroethene	50.0	49.8	100	0	20	72-127	
Toluene	50.0	50.1	100	2	20	68-127	
trans-1,2-Dichloroethene	50.0	49.2	98	0	20	66-129	
trans-1,3-Dichloropropene	50.0	53.4	107	1	20	66-127	
Trichloroethene	50.0	47.7	95	14	20	70-125	
Trichlorofluoromethane	50.0	50.2	100	0	28	57-144	
Vinyl acetate	100	104	104	67	23	61-139	*1
Vinyl chloride	50.0	47.8	96	8	25	53-141	
Xylenes, Total	100	101	101	4	20	77-120	
2-Butanone (MEK)	200	217	109	7	20	53-135	
Acrolein	494	496	100	1	23	10-207	
Acrylonitrile	500	528	106	10	20	65-133	
1,2-Dibromoethane	50.0	49.3	99	9	20	81-118	
1,2,4-Trichlorobenzene	50.0	44.6	89	5	20	73-124	
Allyl chloride	50.0	50.1	100	6	20	57-136	
Ethyl methacrylate	50.0	48.4	97	7	20	69-126	
trans-1,4-Dichloro-2-butene	50.0	51.4	103	1	24	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: R_6733.D
Lab ID: LCSD 280-621621/7 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloroprene	25.0	33.7	135	8	20	53-147	
Acetonitrile	250	363	145	1	20	45-142	*+
Methacrylonitrile	250	342	137	0	20	47-142	
Methyl methacrylate	50.0	46.4	93	3	20	60-131	
Propionitrile	250	277	111	1	20	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6789.D
 Lab ID: LCSD 280-621775/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	50.5	101	3	20	74-121	
1,1,1-Trichloroethane	50.0	48.5	97	8	20	62-132	
1,1,2,2-Tetrachloroethane	50.0	53.0	106	2	20	72-122	
1,1,2-Trichloroethane	50.0	52.5	105	1	20	72-128	
1,1-Dichloroethane	50.0	49.2	98	6	20	66-130	
1,1-Dichloroethene	50.0	44.0	88	12	21	62-130	
1,1-Dichloropropene	50.0	48.5	97	8	20	64-133	
1,2,3-Trichloropropane	50.0	51.6	103	0	20	74-123	
1,2-Dibromo-3-Chloropropane	50.0	47.3	95	2	21	58-122	
1,2-Dichlorobenzene	50.0	50.0	100	0	20	77-121	
1,2-Dichloroethane	50.0	53.5	107	1	20	61-130	
1,2-Dichloropropane	50.0	51.8	104	2	20	68-127	
1,3-Dichlorobenzene	50.0	48.7	97	1	20	76-121	
1,3-Dichloropropane	50.0	53.2	106	3	20	80-118	
1,4-Dichlorobenzene	50.0	47.8	96	0	20	76-119	
2,2-Dichloropropane	50.0	51.1	102	10	22	57-140	
2-Hexanone	200	224	112	1	21	58-134	
4-Methyl-2-pentanone (MIBK)	200	218	109	2	20	56-135	
Acetone	200	219	109	4	21	50-137	
Benzene	50.0	49.4	99	4	20	69-126	
Bromoform	50.0	51.2	102	1	20	57-125	
Bromomethane	50.0	34.5	69	0	40	25-163	
Carbon disulfide	50.0	39.4	79	17	20	56-128	
Carbon tetrachloride	50.0	48.2	96	9	20	60-133	
Chlorobenzene	50.0	48.3	97	2	20	78-118	
Chlorobromomethane	50.0	51.7	103	1	20	71-130	
Chlorodibromomethane	50.0	51.9	104	1	20	71-122	
Chloroethane	50.0	40.4	81	16	30	52-144	
Chloroform	50.0	50.6	101	1	20	68-128	
Chloromethane	50.0	37.7	75	24	20	43-142	*1
cis-1,2-Dichloroethene	50.0	48.9	98	2	20	69-126	
cis-1,3-Dichloropropene	50.0	53.2	106	1	20	75-120	
Dibromomethane	50.0	51.3	103	1	20	68-129	
Dichlorobromomethane	50.0	53.1	106	0	20	67-126	
Dichlorodifluoromethane	50.0	33.8	68	45	21	26-152	*1
Ethylbenzene	50.0	49.2	98	5	20	76-121	
Iodomethane	50.0	42.2	84	3	38	37-145	
Isobutyl alcohol	1250	1320	106	4	30	46-132	
Methylene Chloride	50.0	48.4	97	1	20	64-128	
m-Xylene & p-Xylene	50.0	49.9	100	7	20	76-122	
o-Xylene	50.0	51.6	103	4	20	77-120	
Styrene	50.0	53.1	106	3	20	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6789.D
 Lab ID: LCSD 280-621775/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Tetrachloroethene	50.0	47.6	95	6	20	72-127	
Toluene	50.0	49.1	98	4	20	68-127	
trans-1,2-Dichloroethene	50.0	45.7	91	7	20	66-129	
trans-1,3-Dichloropropene	50.0	54.8	110	5	20	66-127	
Trichloroethene	50.0	46.9	94	10	20	70-125	
Trichlorofluoromethane	50.0	43.7	87	21	28	57-144	
Vinyl acetate	100	114	114	14	23	61-139	
Vinyl chloride	50.0	40.0	80	25	25	53-141	
Xylenes, Total	100	102	102	6	20	77-120	
2-Butanone (MEK)	200	231	116	2	20	53-135	
Acrolein	494	534	108	10	23	10-207	
Acrylonitrile	500	557	111	0	20	65-133	
1,2-Dibromoethane	50.0	52.4	105	1	20	81-118	
1,2,4-Trichlorobenzene	50.0	48.4	97	2	20	73-124	
Allyl chloride	50.0	46.7	93	3	20	57-136	
Ethyl methacrylate	50.0	52.9	106	0	20	69-126	
trans-1,4-Dichloro-2-butene	50.0	54.3	109	9	24	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6790.D
 Lab ID: LCSD 280-621775/7 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloroprene	25.0	33.1	132	6	20	53-147	
Acetonitrile	250	380	152	6	20	45-142	*+
Methacrylonitrile	250	359	144	7	20	47-142	*+
Methyl methacrylate	50.0	50.0	100	9	20	60-131	
Propionitrile	250	288	115	5	20	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6812.D
 Lab ID: 280-179475-13 MS Client ID: PA-3-20230722 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	ND	52.2	104	74-121	
1,1,1-Trichloroethane	50.0	ND	54.6	109	62-132	
1,1,2,2-Tetrachloroethane	50.0	ND	52.7	105	72-122	
1,1,2-Trichloroethane	50.0	ND	51.7	103	72-128	
1,1-Dichloroethane	50.0	ND	52.3	105	66-130	
1,1-Dichloroethene	50.0	ND	52.9	106	62-130	
1,1-Dichloropropene	50.0	ND	54.8	110	64-133	
1,2,3-Trichloropropane	50.0	ND	50.8	102	74-123	
1,2-Dibromo-3-Chloropropane	50.0	ND	47.6	95	58-122	
1,2-Dichlorobenzene	50.0	ND	50.5	101	77-121	
1,2-Dichloroethane	50.0	ND	53.5	107	61-130	
1,2-Dichloropropane	50.0	ND	52.6	105	68-127	
1,3-Dichlorobenzene	50.0	ND	49.9	100	76-121	
1,3-Dichloropropane	50.0	ND	53.7	107	80-118	
1,4-Dichlorobenzene	50.0	ND	48.8	98	76-119	
2,2-Dichloropropane	50.0	ND	51.6	103	57-140	
2-Hexanone	200	ND	209	105	58-134	
4-Methyl-2-pentanone (MIBK)	200	ND	204	102	56-135	
Acetone	200	ND	196	98	50-137	
Benzene	50.0	ND	51.6	103	69-126	
Bromoform	50.0	ND	50.7	101	57-125	
Bromomethane	50.0	ND	37.7	75	25-163	
Carbon disulfide	50.0	ND	50.6	101	56-128	
Carbon tetrachloride	50.0	ND	55.3	111	60-133	
Chlorobenzene	50.0	ND	50.0	100	78-118	
Chlorobromomethane	50.0	ND	52.7	105	71-130	
Chlorodibromomethane	50.0	ND	51.8	104	71-122	
Chloroethane	50.0	ND	41.9	84	52-144	
Chloroform	50.0	ND	52.1	104	68-128	
Chloromethane	50.0	ND	39.3	79	43-142	
cis-1,2-Dichloroethene	50.0	ND	51.1	102	69-126	
cis-1,3-Dichloropropene	50.0	ND	52.4	105	75-120	
Dibromomethane	50.0	ND	50.9	102	68-129	
Dichlorobromomethane	50.0	ND	53.8	108	67-126	
Dichlorodifluoromethane	50.0	ND	35.5	71	26-152	
Ethylbenzene	50.0	ND	51.6	103	76-121	
Iodomethane	50.0	ND	50.0	100	37-145	
Isobutyl alcohol	1250	ND	1280	102	46-132	
Methylene Chloride	50.0	ND	49.3	99	64-128	
m-Xylene & p-Xylene	50.0	ND	51.9	104	76-122	
o-Xylene	50.0	ND	53.6	107	77-120	
Styrene	50.0	ND	54.5	109	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6812.D
 Lab ID: 280-179475-13 MS Client ID: PA-3-20230722 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	ND	52.0	104	72-127	
Toluene	50.0	ND	50.3	101	68-127	
trans-1,2-Dichloroethene	50.0	ND	50.7	101	66-129	
trans-1,3-Dichloropropene	50.0	ND	53.9	108	66-127	
Trichloroethene	50.0	0.80 J	51.4	101	70-125	
Trichlorofluoromethane	50.0	ND	46.0	92	57-144	
Vinyl acetate	100	ND	113	113	61-139	
Vinyl chloride	50.0	ND	42.4	85	53-141	
Xylenes, Total	100	ND	106	106	77-120	
2-Butanone (MEK)	200	ND	220	110	53-135	
Acrolein	494	ND	480	97	10-207	
Acrylonitrile	500	ND	540	108	65-133	
1,2-Dibromoethane	50.0	ND	52.2	104	81-118	
1,2,4-Trichlorobenzene	50.0	ND	48.1	96	73-124	
Allyl chloride	50.0	ND	51.1	102	57-136	
Ethyl methacrylate	50.0	ND	50.8	102	69-126	
trans-1,4-Dichloro-2-butene	50.0	ND	52.8	106	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Denver

Job No.: 280-179475-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: R_6813.D

Lab ID: 280-179475-13 MSD

Client ID: PA-3-20230722 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	52.8	106	1	20	74-121	
1,1,1-Trichloroethane	50.0	54.3	109	1	20	62-132	
1,1,2,2-Tetrachloroethane	50.0	53.3	107	1	20	72-122	
1,1,2-Trichloroethane	50.0	53.0	106	2	20	72-128	
1,1-Dichloroethane	50.0	53.0	106	1	20	66-130	
1,1-Dichloroethene	50.0	53.1	106	0	21	62-130	
1,1-Dichloropropene	50.0	55.3	111	1	20	64-133	
1,2,3-Trichloropropane	50.0	50.6	101	0	20	74-123	
1,2-Dibromo-3-Chloropropane	50.0	49.4	99	4	21	58-122	
1,2-Dichlorobenzene	50.0	51.7	103	2	20	77-121	
1,2-Dichloroethane	50.0	54.7	109	2	20	61-130	
1,2-Dichloropropane	50.0	53.8	108	2	20	68-127	
1,3-Dichlorobenzene	50.0	50.7	101	2	20	76-121	
1,3-Dichloropropane	50.0	54.8	110	2	20	80-118	
1,4-Dichlorobenzene	50.0	49.3	99	1	20	76-119	
2,2-Dichloropropane	50.0	51.0	102	1	22	57-140	
2-Hexanone	200	213	107	2	21	58-134	
4-Methyl-2-pentanone (MIBK)	200	208	104	2	20	56-135	
Acetone	200	197	99	1	21	50-137	
Benzene	50.0	51.8	104	0	20	69-126	
Bromoform	50.0	52.2	104	3	20	57-125	
Bromomethane	50.0	36.2	72	4	40	25-163	
Carbon disulfide	50.0	50.7	101	0	20	56-128	
Carbon tetrachloride	50.0	55.5	111	0	20	60-133	
Chlorobenzene	50.0	51.0	102	2	20	78-118	
Chlorobromomethane	50.0	53.3	107	1	20	71-130	
Chlorodibromomethane	50.0	52.5	105	1	20	71-122	
Chloroethane	50.0	37.6	75	11	30	52-144	
Chloroform	50.0	53.0	106	2	20	68-128	
Chloromethane	50.0	35.5	71	10	20	43-142	
cis-1,2-Dichloroethene	50.0	50.9	102	0	20	69-126	
cis-1,3-Dichloropropene	50.0	54.0	108	3	20	75-120	
Dibromomethane	50.0	52.2	104	3	20	68-129	
Dichlorobromomethane	50.0	54.1	108	1	20	67-126	
Dichlorodifluoromethane	50.0	31.6	63	12	21	26-152	
Ethylbenzene	50.0	52.8	106	2	20	76-121	
Iodomethane	50.0	49.1	98	2	38	37-145	
Isobutyl alcohol	1250	1270	102	0	30	46-132	
Methylene Chloride	50.0	49.4	99	0	20	64-128	
m-Xylene & p-Xylene	50.0	52.4	105	1	20	76-122	
o-Xylene	50.0	55.0	110	3	20	77-120	
Styrene	50.0	55.5	111	2	20	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6813.D
 Lab ID: 280-179475-13 MSD Client ID: PA-3-20230722 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Tetrachloroethene	50.0	51.6	103	1	20	72-127	
Toluene	50.0	51.0	102	1	20	68-127	
trans-1,2-Dichloroethene	50.0	50.4	101	1	20	66-129	
trans-1,3-Dichloropropene	50.0	54.3	109	1	20	66-127	
Trichloroethene	50.0	52.6	104	2	20	70-125	
Trichlorofluoromethane	50.0	41.8	84	9	28	57-144	
Vinyl acetate	100	115	115	1	23	61-139	
Vinyl chloride	50.0	38.6	77	9	25	53-141	
Xylenes, Total	100	107	107	2	20	77-120	
2-Butanone (MEK)	200	221	111	1	20	53-135	
Acrolein	494	484	98	1	23	10-207	
Acrylonitrile	500	551	110	2	20	65-133	
1,2-Dibromoethane	50.0	54.2	108	4	20	81-118	
1,2,4-Trichlorobenzene	50.0	49.4	99	3	20	73-124	
Allyl chloride	50.0	51.9	104	2	20	57-136	
Ethyl methacrylate	50.0	52.8	106	4	20	69-126	
trans-1,4-Dichloro-2-butene	50.0	52.1	104	1	24	44-131	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab File ID: MS13_004055.D Lab Sample ID: MB 280-621382/9
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: VMS_MS13 Date Analyzed: 08/01/2023 11:48
GC Column: RXI-624SilMS ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-621382/5	MS13_004049 A.D	08/01/2023 09:08
	LCS 280-621382/4	MS13_004051 A.D	08/01/2023 10:18
	LCSD 280-621382/6	MS13_004052 .D	08/01/2023 10:40
	LCSD 280-621382/7	MS13_004053 .D	08/01/2023 11:03
RW-2172F-20230718	280-179475-1	MS13_004070 .D	08/01/2023 17:26

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab File ID: R_6735.D Lab Sample ID: MB 280-621621/9
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: VMS_R1 Date Analyzed: 08/02/2023 18:24
 GC Column: DB-624 (60.25) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-621621/4	R_6730c.D	08/02/2023 16:22
	LCS 280-621621/5	R_6731aa.D	08/02/2023 16:43
	LCSD 280-621621/6	R_6732.D	08/02/2023 17:21
	LCSD 280-621621/7	R_6733.D	08/02/2023 17:42
RW-2203H-20230719	280-179475-2	R_6742.D	08/02/2023 20:51
RW-8030P-20230720	280-179475-3	R_6743.D	08/02/2023 21:12
RW-2879M-20230720	280-179475-4	R_6744.D	08/02/2023 21:32
RW-2151H-20230720	280-179475-5	R_6745.D	08/02/2023 21:53
RW-2237H-20230720	280-179475-6	R_6746.D	08/02/2023 22:14
RW-7200P-20230720	280-179475-7	R_6747.D	08/02/2023 22:35
RW-8105PS-20230720	280-179475-8	R_6748.D	08/02/2023 22:56
RW-7505P-20230720	280-179475-9	R_6749.D	08/02/2023 23:17
RW-7505P-Q-20230720	280-179475-10	R_6750.D	08/02/2023 23:37

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab File ID: R_6792.D Lab Sample ID: MB 280-621775/9
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: VMS_R1 Date Analyzed: 08/03/2023 18:17
GC Column: DB-624 (60.25) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-621775/4	R_6787bb.D	08/03/2023 16:12
	LCS 280-621775/5	R_6788b.D	08/03/2023 16:33
	LCSD 280-621775/6	R_6789.D	08/03/2023 17:14
	LCSD 280-621775/7	R_6790.D	08/03/2023 17:35
TB-01-20230723	280-179475-11	R_6793.D	08/03/2023 18:46
RW-2140H-20230723	280-179475-12	R_6797.D	08/03/2023 20:14
PA-3-20230722	280-179475-13	R_6798.D	08/03/2023 20:35
PA-3-20230722 MS	280-179475-13 MS	R_6812.D	08/04/2023 01:26
PA-3-20230722 MSD	280-179475-13 MSD	R_6813.D	08/04/2023 01:47

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab File ID: MS13_003245a.D BFB Injection Date: 07/07/2023
Instrument ID: VMS_MS13 BFB Injection Time: 23:31
Analysis Batch No.: 618851

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.9
75	30.0 - 60.0 % of mass 95	42.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	94.0
175	5.0 - 9.0 % of mass 174	6.8 (7.3) 1
176	95.0 - 101.0 % of mass 174	91.6 (97.5) 1
177	5.0 - 9.0 % of mass 176	5.3 (5.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-618851/24	MS13_003245.D	07/07/2023	23:31
	IC 280-618851/25	MS13_003246.D	07/07/2023	23:54
	IC 280-618851/26	MS13_003247.D	07/08/2023	0:16
	ICIS 280-618851/27	MS13_003248.D	07/08/2023	0:38
	IC 280-618851/28	MS13_003249.D	07/08/2023	1:00
	IC 280-618851/29	MS13_003250.D	07/08/2023	1:22
	IC 280-618851/30	MS13_003251.D	07/08/2023	1:44
	IC 280-618851/31	MS13_003252.D	07/08/2023	2:07
	IC 280-618851/32	MS13_003253.D	07/08/2023	2:29

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab File ID: MS13_003255.D BFB Injection Date: 07/10/2023
 Instrument ID: VMS_MS13 BFB Injection Time: 21:45
 Analysis Batch No.: 618851

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.2
75	30.0 - 60.0 % of mass 95	46.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	74.8
175	5.0 - 9.0 % of mass 174	5.6 (7.5) 1
176	95.0 - 101.0 % of mass 174	71.5 (95.6) 1
177	5.0 - 9.0 % of mass 176	4.8 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 280-618851/35	MS13_003256.D	07/10/2023	22:07

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab File ID: MS13_003257.D BFB Injection Date: 07/10/2023
Instrument ID: VMS_MS13 BFB Injection Time: 22:39
Analysis Batch No.: 619014

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.3
75	30.0 - 60.0 % of mass 95	46.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	71.6
175	5.0 - 9.0 % of mass 174	5.9 (8.2) 1
176	95.0 - 101.0 % of mass 174	68.8 (96.0) 1
177	5.0 - 9.0 % of mass 176	4.3 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-619014/24	MS13_003258.D	07/10/2023	23:01
	IC 280-619014/25	MS13_003259.D	07/10/2023	23:24
	IC 280-619014/26	MS13_003260.D	07/10/2023	23:46
	IC 280-619014/27	MS13_003261.D	07/11/2023	0:08
	IC 280-619014/28	MS13_003262.D	07/11/2023	0:31
	IC 280-619014/29	MS13_003263.D	07/11/2023	0:53
	IC 280-619014/30	MS13_003264.D	07/11/2023	1:16
	IC 280-619014/31	MS13_003265.D	07/11/2023	1:38
	ICV 280-619014/32	MS13_003266.D	07/11/2023	2:00

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab File ID: MS13_004047.D BFB Injection Date: 08/01/2023
Instrument ID: VMS_MS13 BFB Injection Time: 08:14
Analysis Batch No.: 621382

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.7
75	30.0 - 60.0 % of mass 95	46.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.2 (0.2) 1
174	Greater than 50% of mass 95	73.2
175	5.0 - 9.0 % of mass 174	5.7 (7.8) 1
176	95.0 - 101.0 % of mass 174	72.3 (98.7) 1
177	5.0 - 9.0 % of mass 176	4.5 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-621382/3	MS13_004049.D	08/01/2023	9:08
	LCS 280-621382/5	MS13_004049A.	08/01/2023	9:08
	CCV 280-621382/13	MS13_004051.D	08/01/2023	10:18
	LCS 280-621382/4	MS13_004051A.	08/01/2023	10:18
	LCSD 280-621382/6	MS13_004052.D	08/01/2023	10:40
	LCSD 280-621382/7	MS13_004053.D	08/01/2023	11:03
	MB 280-621382/9	MS13_004055.D	08/01/2023	11:48
RW-2172F-20230718	280-179475-1	MS13_004070.D	08/01/2023	17:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab File ID: R2068.D BFB Injection Date: 06/20/2018
Instrument ID: VMS_R1 BFB Injection Time: 23:30
Analysis Batch No.: 419367

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	15.4
75	30.0 - 60.0 % of mass 95	45.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	8.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	67.8
175	5.0 - 9.0 % of mass 174	4.2 (6.3) 1
176	95.0 - 101.0 % of mass 174	65.6 (96.7) 1
177	5.0 - 9.0 % of mass 176	4.5 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 280-419367/21	R2088.D	06/21/2018	8:32
	ICV 280-419367/24	R2091.D	06/21/2018	9:29

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab File ID: R3107.D BFB Injection Date: 03/29/2022
Instrument ID: VMS_R1 BFB Injection Time: 15:57
Analysis Batch No.: 570124

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.8
75	30.0 - 60.0 % of mass 95	52.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.4 (0.5) 1
174	Greater than 50% of mass 95	84.4
175	5.0 - 9.0 % of mass 174	6.1 (7.2) 1
176	95.0 - 101.0 % of mass 174	80.3 (95.2) 1
177	5.0 - 9.0 % of mass 176	5.2 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 280-570124/14	R3108.D	03/29/2022	17:08
	STD2 280-570124/15	R3109.D	03/29/2022	17:29
	STD5 280-570124/16	R3110.D	03/29/2022	17:51
	STD10 280-570124/17	R3111.D	03/29/2022	18:13
	STD50 280-570124/18	R3112.D	03/29/2022	18:35
	STD75 280-570124/19	R3113.D	03/29/2022	18:57
	STD100 280-570124/20	R3114.D	03/29/2022	19:18
	STD200 280-570124/21	R3115.D	03/29/2022	19:40
	ICV 280-570124/22	R3117.D	03/29/2022	20:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab File ID: R_6567.D BFB Injection Date: 07/30/2023
Instrument ID: VMS_R1 BFB Injection Time: 15:30
Analysis Batch No.: 621220

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.3
75	30.0 - 60.0 % of mass 95	51.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	71.5
175	5.0 - 9.0 % of mass 174	5.9 (8.3) 1
176	95.0 - 101.0 % of mass 174	68.6 (96.0) 1
177	5.0 - 9.0 % of mass 176	4.7 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-621220/13	R_6570.D	07/30/2023	16:32
	IC 280-621220/14	R_6571.D	07/30/2023	16:53
	IC 280-621220/15	R_6572.D	07/30/2023	17:14
	ICIS 280-621220/16	R_6573.D	07/30/2023	17:35
	IC 280-621220/17	R_6574.D	07/30/2023	17:56
	IC 280-621220/18	R_6575.D	07/30/2023	18:16
	IC 280-621220/19	R_6576.D	07/30/2023	18:37
	IC 280-621220/20	R_6577.D	07/30/2023	18:58
	IC 280-621220/21	R_6578.D	07/30/2023	19:19
	ICV 280-621220/22	R_6579.D	07/30/2023	19:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab File ID: R_6730a.D BFB Injection Date: 08/02/2023
Instrument ID: VMS_R1 BFB Injection Time: 16:22
Analysis Batch No.: 621621

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.0
75	30.0 - 60.0 % of mass 95	53.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.2
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	72.0
175	5.0 - 9.0 % of mass 174	5.9 (8.1) 1
176	95.0 - 101.0 % of mass 174	69.3 (96.2) 1
177	5.0 - 9.0 % of mass 176	4.6 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-621621/2	R_6730aa.D	08/02/2023	16:22
	LCS 280-621621/4	R_6730c.D	08/02/2023	16:22
	CCV 280-621621/3	R_6731a.D	08/02/2023	16:43
	LCS 280-621621/5	R_6731aa.D	08/02/2023	16:43
	LCSD 280-621621/6	R_6732.D	08/02/2023	17:21
	LCSD 280-621621/7	R_6733.D	08/02/2023	17:42
	MB 280-621621/9	R_6735.D	08/02/2023	18:24
RW-2203H-20230719	280-179475-2	R_6742.D	08/02/2023	20:51
RW-8030P-20230720	280-179475-3	R_6743.D	08/02/2023	21:12
RW-2879M-20230720	280-179475-4	R_6744.D	08/02/2023	21:32
RW-2151H-20230720	280-179475-5	R_6745.D	08/02/2023	21:53
RW-2237H-20230720	280-179475-6	R_6746.D	08/02/2023	22:14
RW-7200P-20230720	280-179475-7	R_6747.D	08/02/2023	22:35
RW-8105PS-20230720	280-179475-8	R_6748.D	08/02/2023	22:56
RW-7505P-20230720	280-179475-9	R_6749.D	08/02/2023	23:17
RW-7505P-Q-20230720	280-179475-10	R_6750.D	08/02/2023	23:37

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab File ID: R_6787c.D BFB Injection Date: 08/03/2023
Instrument ID: VMS_R1 BFB Injection Time: 16:12
Analysis Batch No.: 621775

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.2
75	30.0 - 60.0 % of mass 95	51.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	71.6
175	5.0 - 9.0 % of mass 174	5.5 (7.7) 1
176	95.0 - 101.0 % of mass 174	68.8 (96.0) 1
177	5.0 - 9.0 % of mass 176	4.3 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-621775/2	R_6787aa.D	08/03/2023	16:12
	LCS 280-621775/4	R_6787bb.D	08/03/2023	16:12
	CCV 280-621775/3	R_6788a.D	08/03/2023	16:33
	LCS 280-621775/5	R_6788b.D	08/03/2023	16:33
	LCSD 280-621775/6	R_6789.D	08/03/2023	17:14
	LCSD 280-621775/7	R_6790.D	08/03/2023	17:35
	MB 280-621775/9	R_6792.D	08/03/2023	18:17
TB-01-20230723	280-179475-11	R_6793.D	08/03/2023	18:46
RW-2140H-20230723	280-179475-12	R_6797.D	08/03/2023	20:14
PA-3-20230722	280-179475-13	R_6798.D	08/03/2023	20:35
PA-3-20230722 MS	280-179475-13 MS	R_6812.D	08/04/2023	1:26
PA-3-20230722 MSD	280-179475-13 MSD	R_6813.D	08/04/2023	1:47

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Sample No.: ICIS 280-618851/27 Date Analyzed: 07/08/2023 00:38
 Instrument ID: VMS_MS13 GC Column: RXI-624SilMS ID: 0.25 (mm)
 Lab File ID (Standard): MS13_003248.D Heated Purge: (Y/N) N
 Calibration ID: 82366

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1454826	5.18	359447	7.72	567591	9.95
UPPER LIMIT		2909652	5.68	718894	8.22	1135182	10.45
LOWER LIMIT		727413	4.68	179724	7.22	283796	9.45
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-618851/35		1417185	5.18	361941	7.72	587233	9.95
CCV 280-621382/3		1382635	5.18	317493	7.72	491662	9.95
LCS 280-621382/5		1382635	5.18	317493	7.72	491662	9.95
LCS 280-621382/4		1357159	5.18	314511	7.72	486084	9.95
CCV 280-621382/13		1357159	5.18	314511	7.72	486084	9.95
LCSD 280-621382/6		1377901	5.18	315095	7.72	486416	9.95
LCSD 280-621382/7		1330415	5.18	302552	7.72	470228	9.95
MB 280-621382/9		1363692	5.18	326835	7.72	520913	9.95
280-179475-1	RW-2172F-20230718	1325376	5.18	299048	7.72	475383	9.95

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Sample No.: ICIS 280-419367/21 Date Analyzed: 06/21/2018 08:32
Instrument ID: VMS_R1 GC Column: DB-624 (60.25) ID: 0.25 (mm)
Lab File ID (Standard): R2088.D Heated Purge: (Y/N) N
Calibration ID: 32770

		TBAd9		FB		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		91840	5.20	1375663	7.13	295551	9.42
UPPER LIMIT				2751326	7.63	591102	9.92
LOWER LIMIT				687832	6.63	147776	8.92
LAB SAMPLE ID		CLIENT SAMPLE ID					
ICV 280-419367/24		98983	5.20	1493806	7.13	329974	9.42

FB = Fluorobenzene
CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area
RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Sample No.: ICIS 280-419367/21 Date Analyzed: 06/21/2018 08:32
Instrument ID: VMS_R1 GC Column: DB-624 (60.25) ID: 0.25 (mm)
Lab File ID (Standard): R2088.D Heated Purge: (Y/N) N
Calibration ID: 32770

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		368467	11.19				
UPPER LIMIT		736934	11.69				
LOWER LIMIT		184234	10.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-419367/24		402419	11.19				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = $\pm$ 0.5 minutes of internal standard RT
Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Sample No.: ICIS 280-621220/16 Date Analyzed: 07/30/2023 17:35
 Instrument ID: VMS_R1 GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Lab File ID (Standard): R_6573.D Heated Purge: (Y/N) N
 Calibration ID: 82942

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2317582	4.82	571323	7.32	917352	9.54
UPPER LIMIT		4635164	5.32	1142646	7.82	1834704	10.04
LOWER LIMIT		1158791	4.32	285662	6.82	458676	9.04
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-621220/22		2172322	4.82	541412	7.32	871566	9.54
CCV 280-621621/2		1796863	4.82	448733	7.32	725902	9.54
LCS 280-621621/4		1796863	4.82	448733	7.32	725902	9.54
LCS 280-621621/5		1852894	4.81	454432	7.32	668667	9.54
CCV 280-621621/3		1852894	4.81	454432	7.32	668667	9.54
LCSD 280-621621/6		1844290	4.81	473762	7.32	756195	9.54
LCSD 280-621621/7		1871729	4.81	455985	7.32	678077	9.54
MB 280-621621/9		1763493	4.82	428863	7.32	651519	9.54
280-179475-2	RW-2203H-20230719	1597799	4.81	393182	7.32	588739	9.54
280-179475-3	RW-8030P-20230720	1627945	4.81	405410	7.32	597517	9.54
280-179475-4	RW-2879M-20230720	1602254	4.82	389379	7.32	586549	9.54
280-179475-5	RW-2151H-20230720	1673279	4.81	409085	7.32	613201	9.54
280-179475-6	RW-2237H-20230720	1658578	4.82	404188	7.32	611433	9.54
280-179475-7	RW-7200P-20230720	1673854	4.82	401402	7.32	601772	9.54
280-179475-8	RW-8105PS-20230720	1686494	4.82	412350	7.32	618768	9.54
280-179475-9	RW-7505P-20230720	1692639	4.81	411871	7.32	627370	9.54
280-179475-10	RW-7505P-Q-20230720	1672218	4.82	398635	7.32	619490	9.54
CCV 280-621775/2		1989859	4.81	489881	7.32	788548	9.54
LCS 280-621775/4		1989859	4.81	489881	7.32	788548	9.54
LCS 280-621775/5		1961989	4.82	474990	7.32	715399	9.54
CCV 280-621775/3		1961989	4.82	474990	7.32	715399	9.54
LCSD 280-621775/6		1952624	4.81	487761	7.32	779763	9.54
LCSD 280-621775/7		1949251	4.81	479291	7.32	718096	9.54
MB 280-621775/9		1829089	4.81	440179	7.32	660337	9.54
280-179475-11	TB-01-20230723	1799283	4.81	445447	7.32	669671	9.54
280-179475-12	RW-2140H-20230723	1786340	4.81	437534	7.32	636238	9.54
280-179475-13	PA-3-20230722	1767584	4.81	435729	7.32	653018	9.54
280-179475-13 MS	PA-3-20230722 MS	1974791	4.81	487851	7.32	774021	9.54

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Sample No.: ICIS 280-621220/16 Date Analyzed: 07/30/2023 17:35
 Instrument ID: VMS_R1 GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Lab File ID (Standard): R_6573.D Heated Purge: (Y/N) N
 Calibration ID: 82942

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2317582	4.82	571323	7.32	917352	9.54
UPPER LIMIT	4635164	5.32	1142646	7.82	1834704	10.04
LOWER LIMIT	1158791	4.32	285662	6.82	458676	9.04
LAB SAMPLE ID	CLIENT SAMPLE ID					
280-179475-13 MSD	PA-3-20230722 MSD		1987353	4.81	488126	7.32
					782396	9.54

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2172F-20230718</u>	Lab Sample ID: <u>280-179475-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS13_004070.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/18/2023 17:03</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/01/2023 17:26</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621382</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND	*+	2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2172F-20230718</u>	Lab Sample ID: <u>280-179475-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS13_004070.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/18/2023 17:03</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/01/2023 17:26</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621382</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND	++	3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-2172F-20230718 Lab Sample ID: 280-179475-1
Matrix: Water Lab File ID: MS13_004070.D
Analysis Method: 8260D Date Collected: 07/18/2023 17:03
Sample wt/vol: 5 (mL) Date Analyzed: 08/01/2023 17:26
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621382 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	91		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004070.D
 Lims ID: 280-179475-A-1
 Client ID: RW-2172F-20230718
 Sample Type: Client
 Inject. Date: 01-Aug-2023 17:26:41 ALS Bottle#: 0 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-a-1
 Operator ID: COULTER Instrument ID: VMS_MS13
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 18:12:56 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1624

First Level Reviewer: LP8K

Date: 01-Aug-2023 18:11:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1325376	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	86	299048	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	96	475383	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.662	4.673	-0.011	93	309293	45.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	384271	45.7	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	92	1252902	49.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	451571	50.4	
9 Dichlorodifluoromethane	85		1.709				ND	
10 Chloromethane	50		1.895				ND	
11 Vinyl chloride	62		1.999				ND	
12 Bromomethane	94		2.310				ND	
13 Chloroethane	64		2.393				ND	
15 Trichlorofluoromethane	101		2.590				ND	
19 Acrolein	56		2.911				ND	
20 1,1-Dichloroethene	96		2.994				ND	
21 Acetone	43		3.015				ND	
24 Iodomethane	142		3.118				ND	
25 Carbon disulfide	76		3.180				ND	7
26 Acetonitrile	41		3.232				ND	
28 3-Chloro-1-propene	41		3.274				ND	
29 Methylene Chloride	84		3.367				ND	
31 Acrylonitrile	53		3.533				ND	
33 trans-1,2-Dichloroethene	96		3.574				ND	
35 Vinyl acetate	43		3.875				ND	
37 1,1-Dichloroethane	63		3.896				ND	
38 2-Chloro-1,3-butadiene	53		3.947				ND	
40 2-Butanone (MEK)	43		4.289				ND	
42 cis-1,2-Dichloroethene	96		4.310				ND	
43 2,2-Dichloropropane	77		4.320				ND	
44 Propionitrile	54		4.331				ND	
46 Methacrylonitrile	41		4.445				ND	
47 Chlorobromomethane	128		4.486				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
49 Chloroform	83		4.548				ND	
50 1,1,1-Trichloroethane	97		4.693				ND	
52 1,1-Dichloropropene	75		4.807				ND	
53 Carbon tetrachloride	117		4.818				ND	
54 Isobutyl alcohol	41		4.818				ND	
56 Benzene	78		4.963				ND	
57 1,2-Dichloroethane	62		4.994				ND	
60 Trichloroethene	95		5.450				ND	
64 1,2-Dichloropropane	63		5.668				ND	
63 Methyl methacrylate	100		5.668				ND	
66 Dibromomethane	93		5.730				ND	
67 Dichlorobromomethane	83		5.854				ND	
70 cis-1,3-Dichloropropene	75		6.207				ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.310				ND	
72 Toluene	91		6.497				ND	
73 trans-1,3-Dichloropropene	75		6.673				ND	
74 Ethyl methacrylate	69		6.694				ND	
75 1,1,2-Trichloroethane	97		6.849				ND	
76 Tetrachloroethene	164		6.942				ND	
77 1,3-Dichloropropane	76		7.004				ND	
78 2-Hexanone	43		7.015				ND	
79 Chlorodibromomethane	129		7.191				ND	
80 Ethylene Dibromide	107		7.315				ND	
82 Chlorobenzene	112		7.751				ND	
83 1,1,1,2-Tetrachloroethane	131		7.823				ND	
84 Ethylbenzene	106		7.823				ND	
85 m-Xylene & p-Xylene	106		7.937				ND	
86 o-Xylene	106		8.300				ND	
87 Styrene	104		8.321				ND	
88 Bromoform	173		8.497				ND	
92 1,1,2,2-Tetrachloroethane	83		8.932				ND	
94 trans-1,4-Dichloro-2-butene	53		8.973				ND	
95 1,2,3-Trichloropropane	110		8.994				ND	
104 1,3-Dichlorobenzene	146		9.875				ND	
106 1,4-Dichlorobenzene	146		9.979				ND	7
109 1,2-Dichlorobenzene	146		10.331				ND	
110 1,2-Dibromo-3-Chloropropane	157		11.119				ND	
112 1,2,4-Trichlorobenzene	180		11.948				ND	
S 128 Xylenes, Total	106		0.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004070.D

Injection Date: 01-Aug-2023 17:26:41

Instrument ID: VMS_MS13

Lims ID: 280-179475-A-1

Lab Sample ID: 280-179475-1

Client ID: RW-2172F-20230718

Operator ID: COULTER

ALS Bottle#: 0 Worklist Smp#: 28

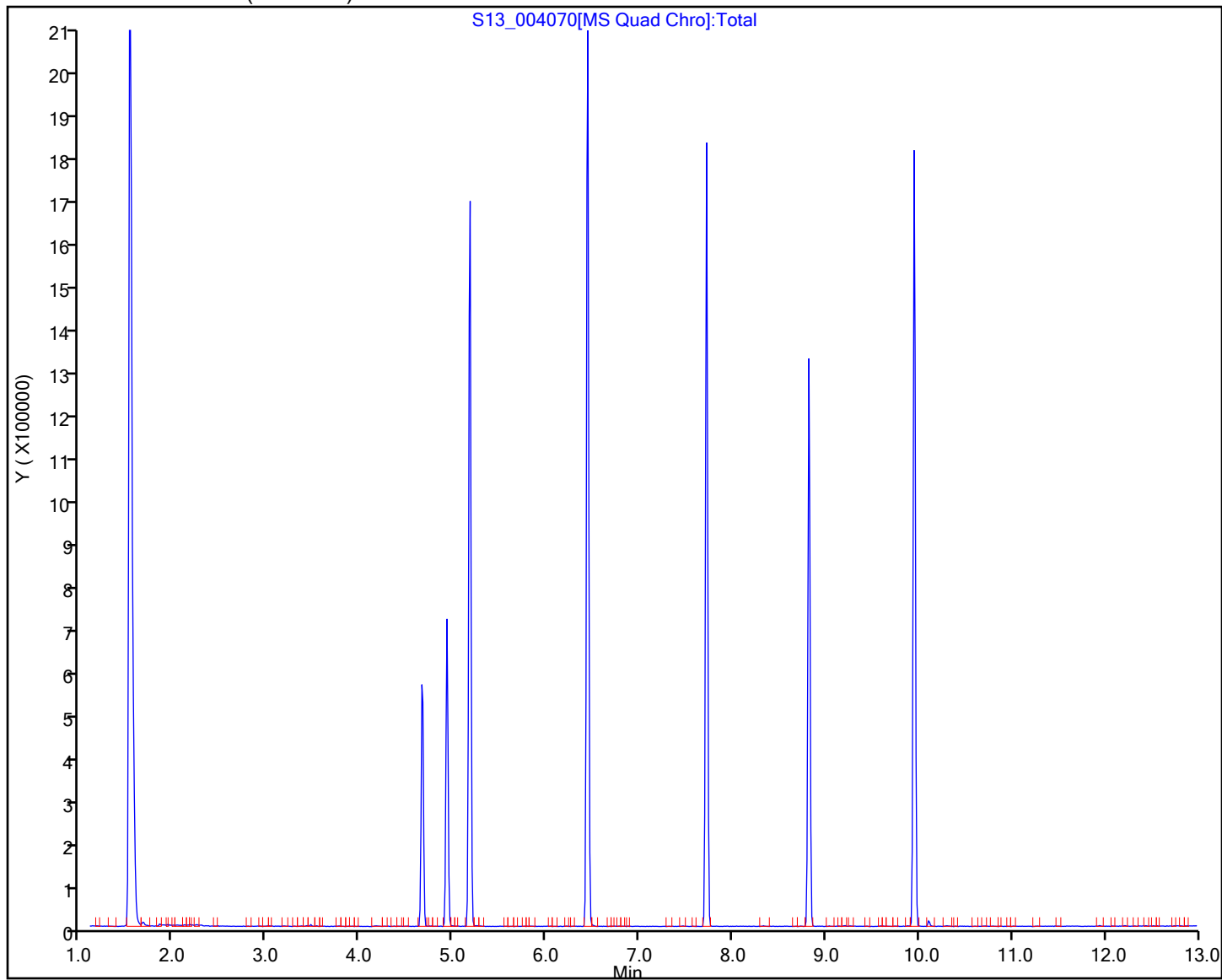
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004070.D
Lims ID: 280-179475-A-1
Client ID: RW-2172F-20230718
Sample Type: Client
Inject. Date: 01-Aug-2023 17:26:41 ALS Bottle#: 0 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-a-1
Operator ID: COULTER Instrument ID: VMS_MS13
Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2023 18:12:56 Calib Date: 11-Jul-2023 01:38:26
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
Process Host: CTX1624

First Level Reviewer: LP8K

Date: 01-Aug-2023 18:11:37

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	45.7	91.34
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	45.7	91.30
\$ 6 Toluene-d8 (Surr)	50.0	49.8	99.52
\$ 7 4-Bromofluorobenzene (Surr)	50.0	50.4	100.84

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2203H-20230719</u>	Lab Sample ID: <u>280-179475-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6742.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/19/2023 17:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 20:51</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	0.57	J	1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2203H-20230719</u>	Lab Sample ID: <u>280-179475-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6742.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/19/2023 17:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 20:51</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	1.3		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	13		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*- *1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-2203H-20230719 Lab Sample ID: 280-179475-2
Matrix: Water Lab File ID: R_6742.D
Analysis Method: 8260D Date Collected: 07/19/2023 17:25
Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 20:51
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621621 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-127
460-00-4	4-Bromofluorobenzene (Surr)	104		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	105		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6742.D
 Lims ID: 280-179475-A-2
 Client ID: RW-2203H-20230719
 Sample Type: Client
 Inject. Date: 02-Aug-2023 20:51:30 ALS Bottle#: 11 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-A-2
 Misc. Info.: 280-0124131-019
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 22:44:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.812	0.000	98	1597799	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	89	393182	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	588739	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.317	0.000	92	440706	52.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	569086	56.7	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1718333	50.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	82	592050	51.9	
\$ 8 BFB	95	8.414	8.414	0.000	82	592050	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59		2.544				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.720				ND	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.843				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.941				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.451				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.623				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	81	4640	0.5734	
46 2,2-Dichloropropane	77		3.979				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.159				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.455				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	7
59 1,2-Dichloroethane	62		4.632				ND	7
64 n-Butanol	56		4.965				ND	
65 Trichloroethene	95	5.085	5.085	0.000	94	97185	12.8	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.482				ND	
73 2-Nitropropane	41		5.644				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.318				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164	6.558	6.551	0.007	83	6911	1.34	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.919				ND	
94 Bromoform	173		8.099				ND	
95 Isopropylbenzene	105		8.241				ND	
97 Cyclohexanone	55		8.335				ND	
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.122				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.660				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1				0		0.5734	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 06:04:00

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6742.D

Injection Date: 02-Aug-2023 20:51:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-A-2

Lab Sample ID: 280-179475-2

Worklist Smp#: 19

Client ID: RW-2203H-20230719

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

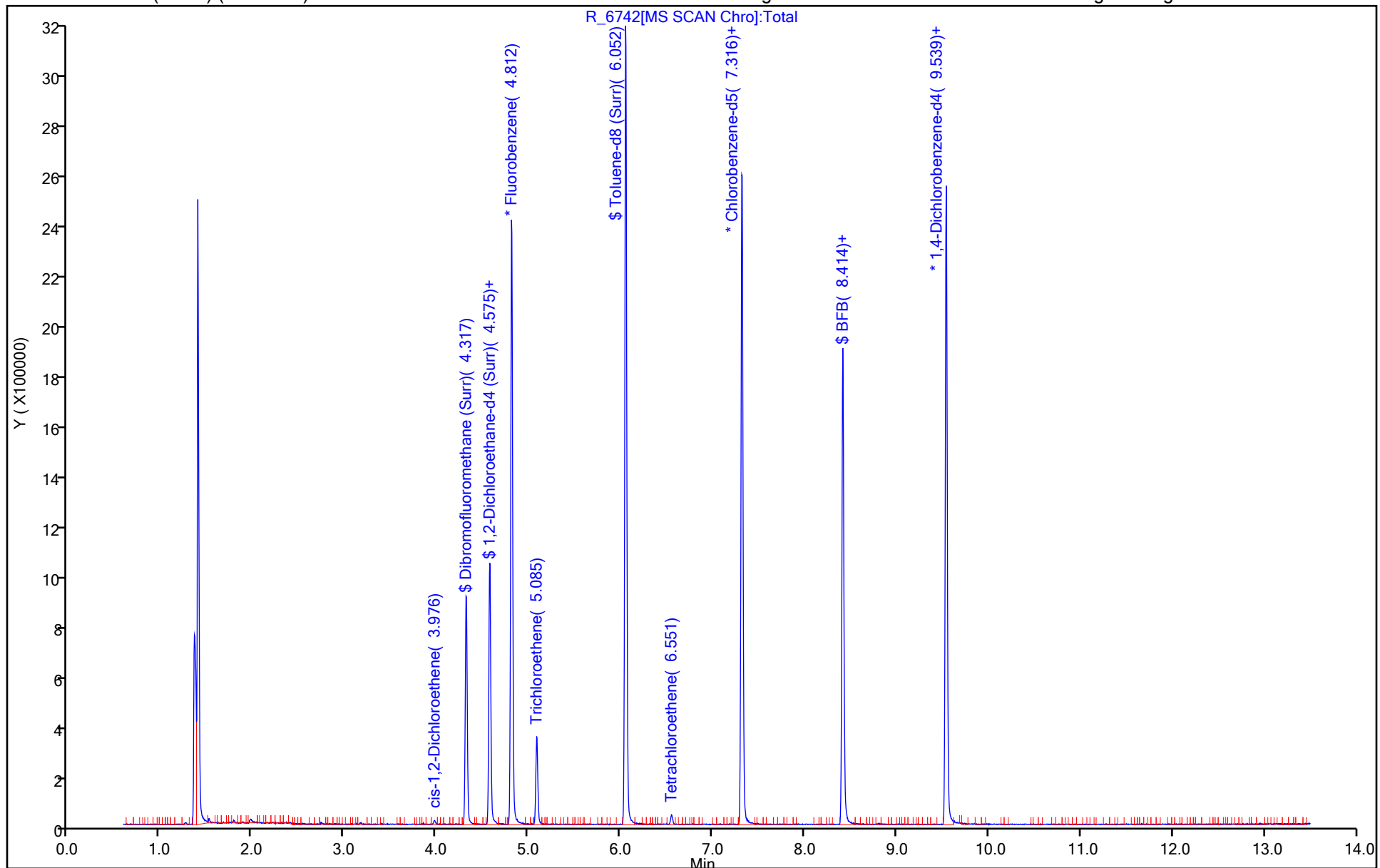
ALS Bottle#: 11

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6742.D
 Lims ID: 280-179475-A-2
 Client ID: RW-2203H-20230719
 Sample Type: Client
 Inject. Date: 02-Aug-2023 20:51:30 ALS Bottle#: 11 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-A-2
 Misc. Info.: 280-0124131-019
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 22:44:36

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	52.5	104.98
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	56.7	113.41
\$ 6 Toluene-d8 (Surr)	50.0	50.7	101.48
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.9	103.87

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6742.D

Injection Date: 02-Aug-2023 20:51:30

Instrument ID: VMS_R1

Lims ID: 280-179475-A-2

Lab Sample ID: 280-179475-2

Client ID: RW-2203H-20230719

Operator ID: sjd

ALS Bottle#: 11

Worklist Smp#: 19

Purge Vol: 5.000 mL

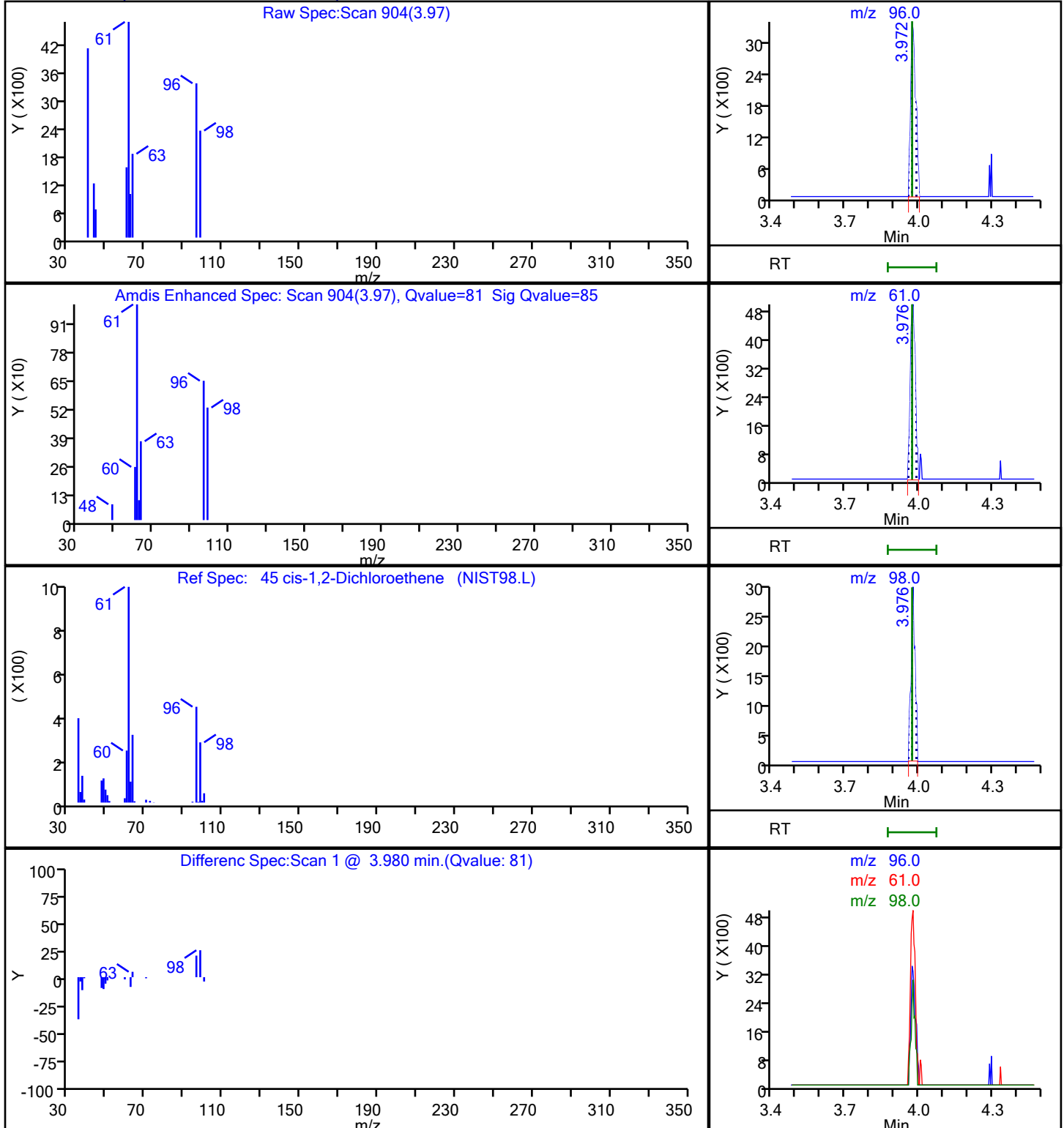
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6742.D

Injection Date: 02-Aug-2023 20:51:30

Instrument ID: VMS_R1

Lims ID: 280-179475-A-2

Lab Sample ID: 280-179475-2

Client ID: RW-2203H-20230719

Operator ID: sjd

ALS Bottle#: 11

Worklist Smp#: 19

Purge Vol: 5.000 mL

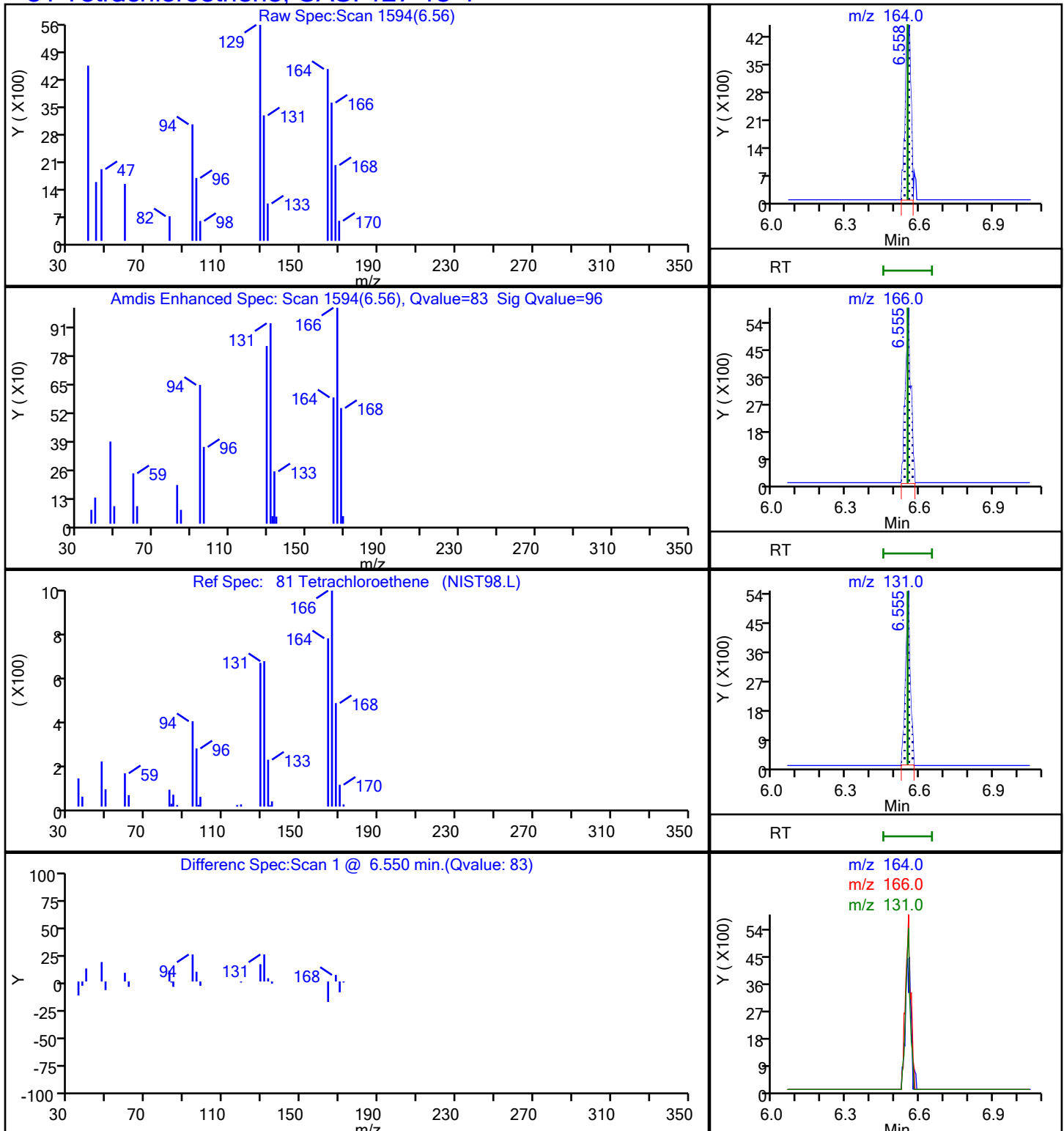
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

81 Tetrachloroethene, CAS: 127-18-4

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6742.D

Injection Date: 02-Aug-2023 20:51:30

Instrument ID: VMS_R1

Lims ID: 280-179475-A-2

Lab Sample ID: 280-179475-2

Client ID: RW-2203H-20230719

Operator ID: sjd

ALS Bottle#: 11

Worklist Smp#: 19

Purge Vol: 5.000 mL

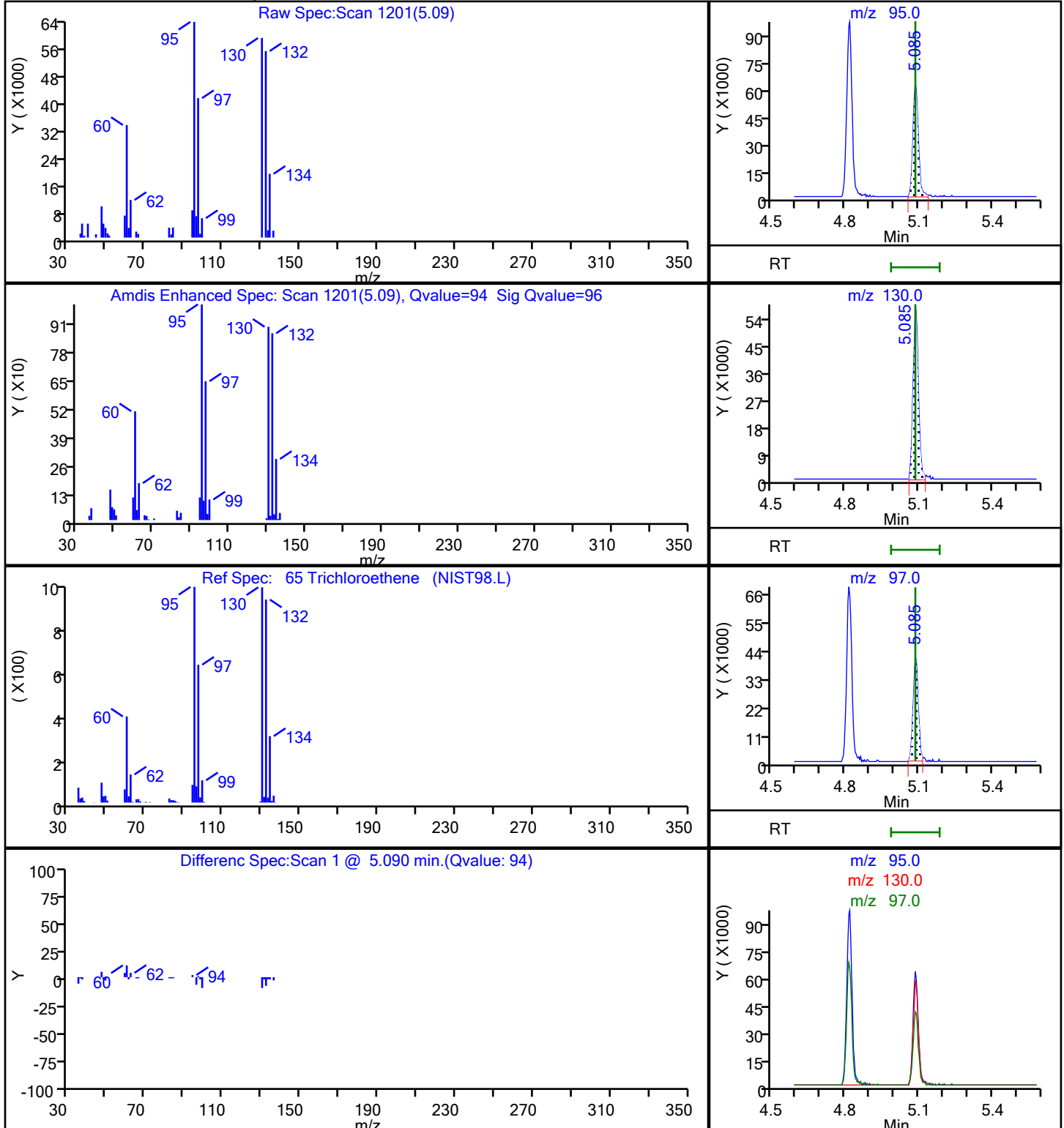
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8030P-20230720</u>	Lab Sample ID: <u>280-179475-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6743.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 09:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 21:12</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8030P-20230720</u>	Lab Sample ID: <u>280-179475-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6743.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 09:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 21:12</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	4.9		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*- *1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-8030P-20230720 Lab Sample ID: 280-179475-3
Matrix: Water Lab File ID: R_6743.D
Analysis Method: 8260D Date Collected: 07/20/2023 09:55
Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 21:12
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621621 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		70-127
460-00-4	4-Bromofluorobenzene (Surr)	104		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	106		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6743.D
 Lims ID: 280-179475-B-3
 Client ID: RW-8030P-20230720
 Sample Type: Client
 Inject. Date: 02-Aug-2023 21:12:30 ALS Bottle#: 12 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-B-3
 Misc. Info.: 280-0124131-020
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 22:45:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.812	0.000	98	1627945	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	405410	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	597517	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.317	0.004	92	451464	52.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	582535	57.0	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1747082	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.414	0.004	83	601371	52.0	
\$ 8 BFB	95	8.418	8.414	0.004	83	601371	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59		2.544				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.720				ND	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.843				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.941				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.451				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.623				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	7
46 2,2-Dichloropropane	77		3.979				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.159				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.455				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	
64 n-Butanol	56		4.965				ND	
65 Trichloroethene	95	5.089	5.085	0.004	94	38130	4.87	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.482				ND	
73 2-Nitropropane	41		5.644				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.318				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164	6.547	6.551	-0.004	61	2004	0.3760	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.919				ND	
94 Bromoform	173		8.099				ND	
95 Isopropylbenzene	105		8.241				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.122				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.660				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 06:04:01

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6743.D

Injection Date: 02-Aug-2023 21:12:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-B-3

Lab Sample ID: 280-179475-3

Worklist Smp#: 20

Client ID: RW-8030P-20230720

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

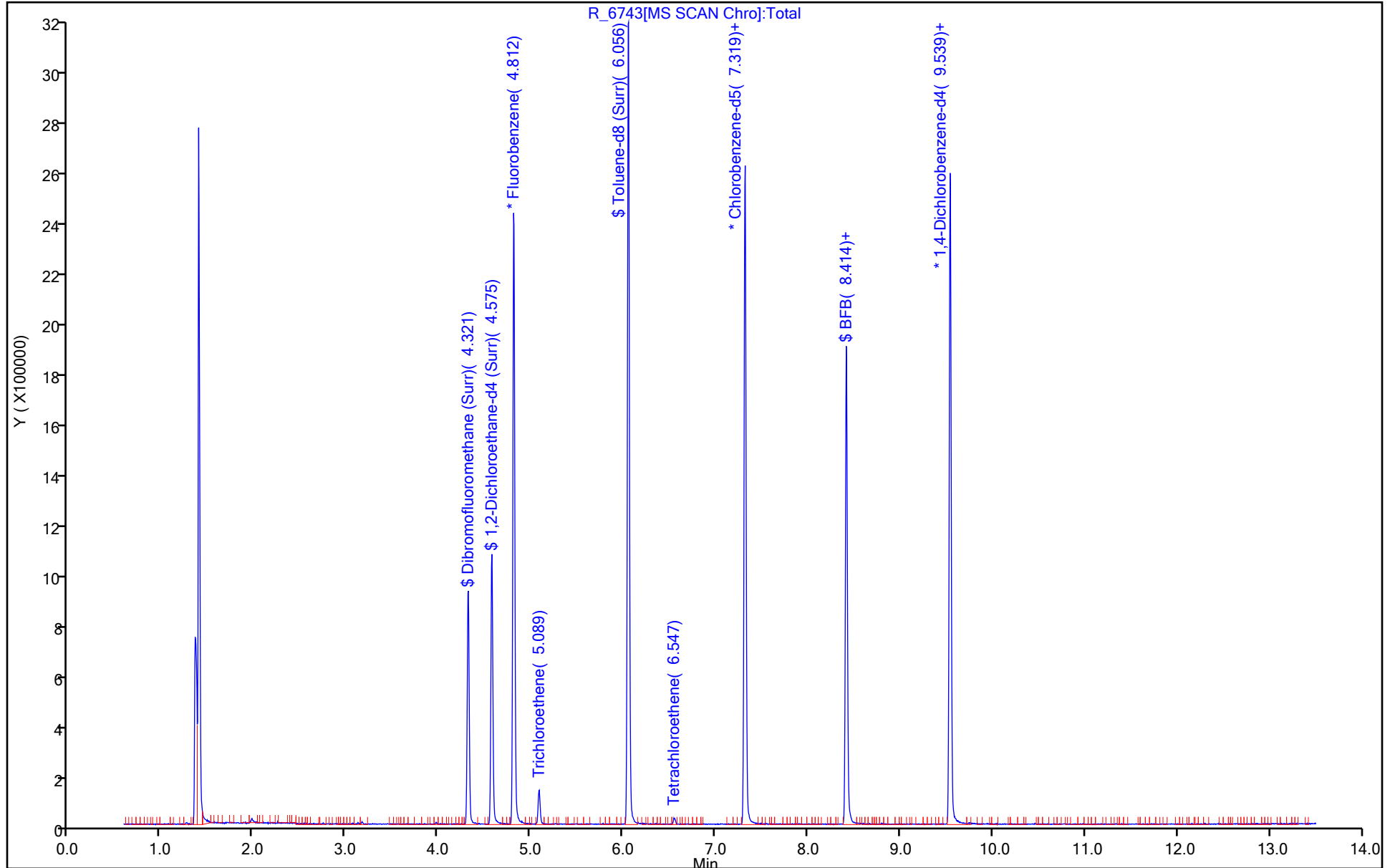
ALS Bottle#: 12

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6743.D
Lims ID: 280-179475-B-3
Client ID: RW-8030P-20230720
Sample Type: Client
Inject. Date: 02-Aug-2023 21:12:30 ALS Bottle#: 12 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-B-3
Misc. Info.: 280-0124131-020
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 22:45:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	52.8	105.55
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	57.0	113.94
\$ 6 Toluene-d8 (Surr)	50.0	50.0	100.07
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.0	103.96

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6743.D

Injection Date: 02-Aug-2023 21:12:30

Instrument ID: VMS_R1

Lims ID: 280-179475-B-3

Lab Sample ID: 280-179475-3

Client ID: RW-8030P-20230720

Operator ID: sjd

ALS Bottle#: 12

Worklist Smp#: 20

Purge Vol: 5.000 mL

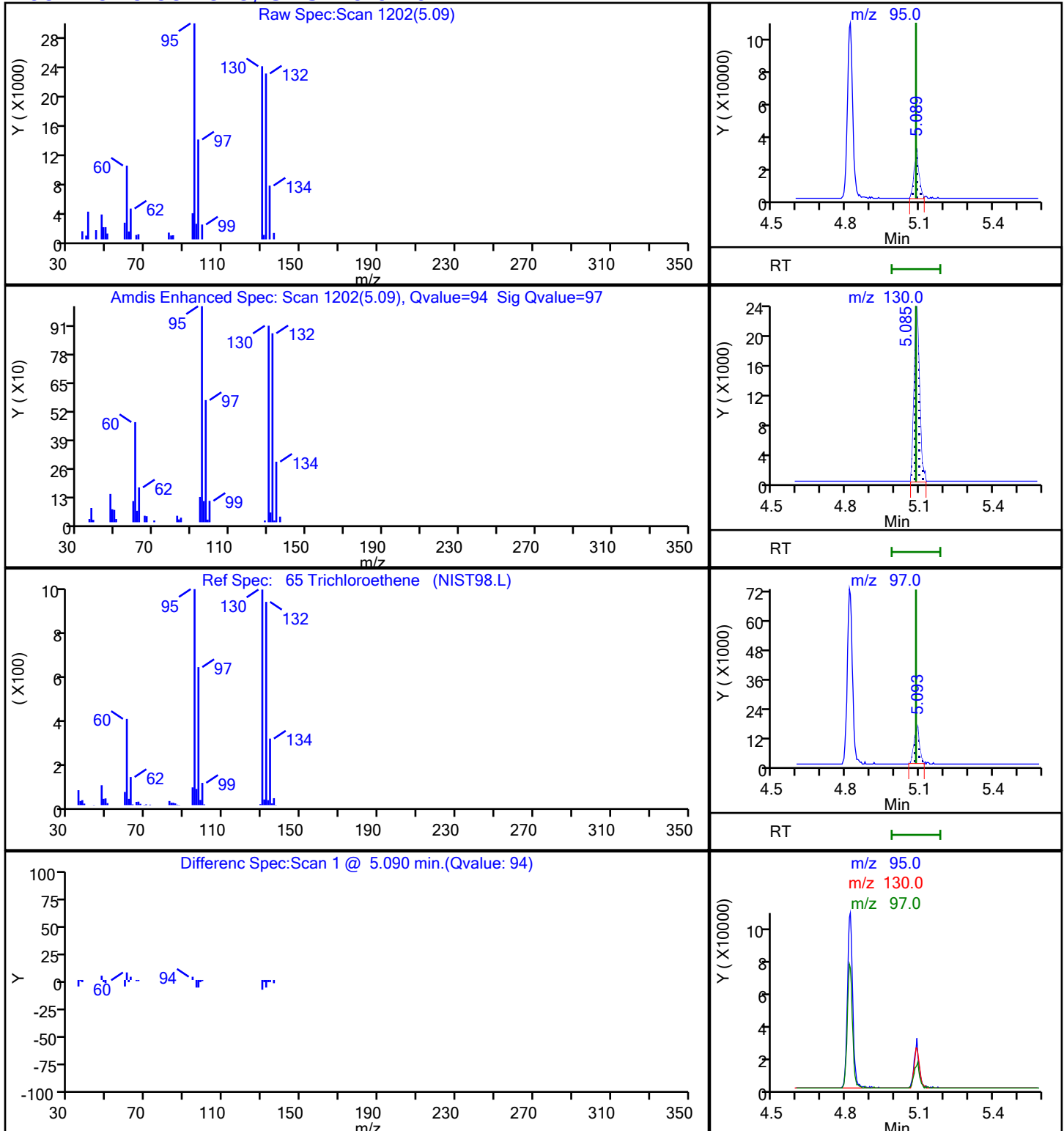
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2879M-20230720</u>	Lab Sample ID: <u>280-179475-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6744.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 11:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 21:32</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2879M-20230720</u>	Lab Sample ID: <u>280-179475-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6744.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 11:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 21:32</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*- *1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-2879M-20230720 Lab Sample ID: 280-179475-4
Matrix: Water Lab File ID: R_6744.D
Analysis Method: 8260D Date Collected: 07/20/2023 11:40
Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 21:32
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621621 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	106		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6744.D
 Lims ID: 280-179475-B-4
 Client ID: RW-2879M-20230720
 Sample Type: Client
 Inject. Date: 02-Aug-2023 21:32:30 ALS Bottle#: 13 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-B-4
 Misc. Info.: 280-0124131-021
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 22:45:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.812	0.003	98	1602254	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	389379	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.539	0.003	98	586549	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.317	0.004	91	448089	53.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	552749	54.9	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.052	0.004	95	1711786	51.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	583595	51.4	
\$ 8 BFB	95	8.414	8.414	0.000	82	583595	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59		2.544				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.720				ND	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.843				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.941				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.451				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.623				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.979				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.159				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.455				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	7
64 n-Butanol	56		4.965				ND	
65 Trichloroethene	95		5.085				ND	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.482				ND	
73 2-Nitropropane	41		5.644				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.318				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.919				ND	
94 Bromoform	173		8.099				ND	
95 Isopropylbenzene	105		8.241				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.122				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	7
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	7
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.660				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 06:04:02

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6744.D

Injection Date: 02-Aug-2023 21:32:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-B-4

Lab Sample ID: 280-179475-4

Worklist Smp#: 21

Client ID: RW-2879M-20230720

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

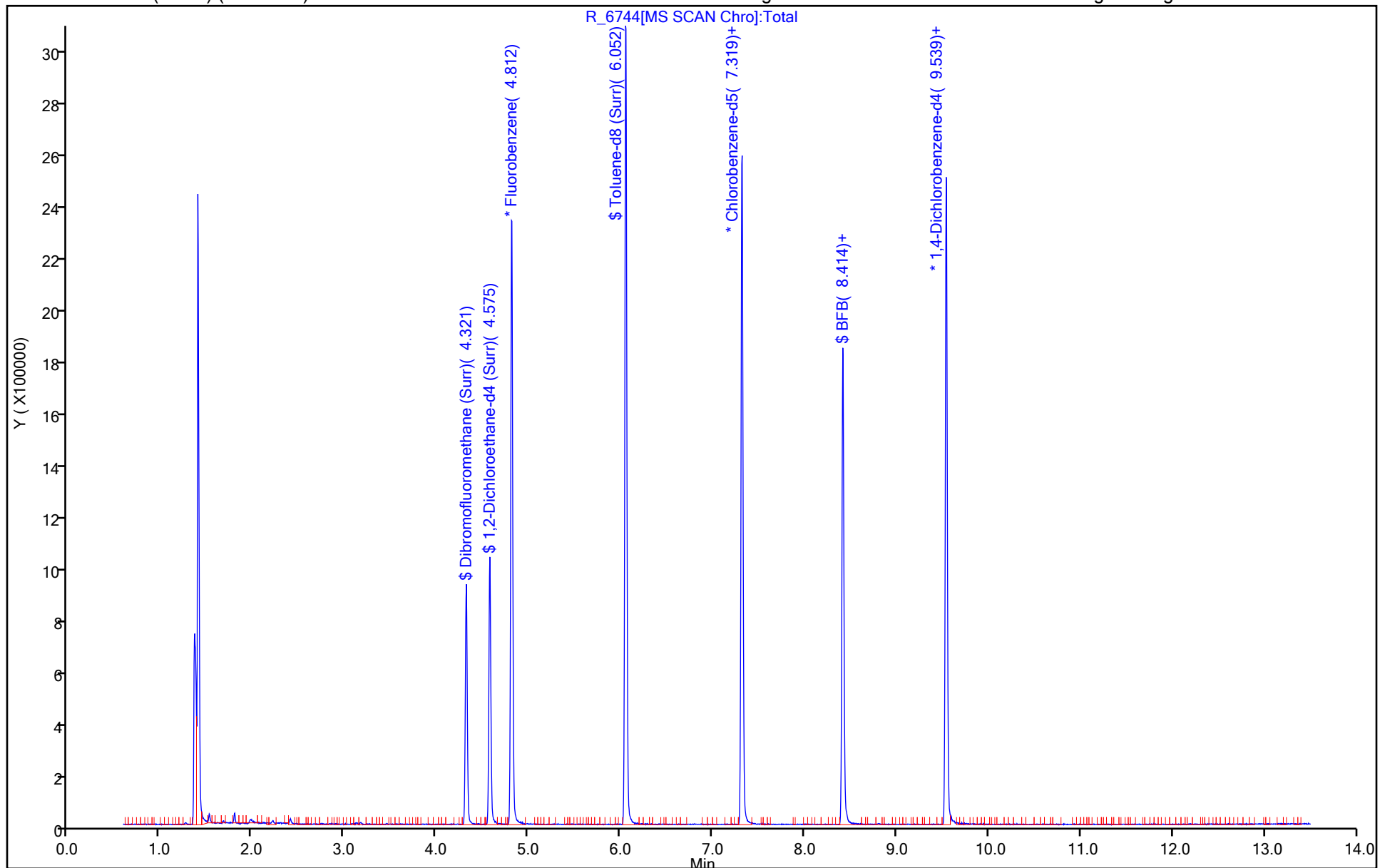
ALS Bottle#: 13

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6744.D
Lims ID: 280-179475-B-4
Client ID: RW-2879M-20230720
Sample Type: Client
Inject. Date: 02-Aug-2023 21:32:30 ALS Bottle#: 13 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-B-4
Misc. Info.: 280-0124131-021
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 22:45:20

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	53.2	106.45
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	54.9	109.84
\$ 6 Toluene-d8 (Surr)	50.0	51.0	102.08
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.4	102.77

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2151H-20230720</u>	Lab Sample ID: <u>280-179475-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6745.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 13:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 21:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2151H-20230720</u>	Lab Sample ID: <u>280-179475-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6745.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 13:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 21:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	0.47	J	1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	6.0		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*- *1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-2151H-20230720 Lab Sample ID: 280-179475-5
Matrix: Water Lab File ID: R_6745.D
Analysis Method: 8260D Date Collected: 07/20/2023 13:25
Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 21:53
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621621 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	105		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6745.D
 Lims ID: 280-179475-A-5
 Client ID: RW-2151H-20230720
 Sample Type: Client
 Inject. Date: 02-Aug-2023 21:53:30 ALS Bottle#: 14 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-A-5
 Misc. Info.: 280-0124131-022
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 22:45:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.812	0.000	98	1673279	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	409085	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	613201	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.317	0.004	91	461323	52.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	585354	55.7	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1780889	50.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.414	0.004	83	611422	51.5	
\$ 8 BFB	95	8.418	8.414	0.004	83	611422	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59		2.544				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.720				ND	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.843				ND	
26 Carbon disulfide	76		2.900				ND	
27 Acetonitrile	41		2.941				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.451				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.623				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	7
46 2,2-Dichloropropane	77		3.979				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.159				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.455				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	7
64 n-Butanol	56		4.965				ND	
65 Trichloroethene	95	5.085	5.085	0.000	97	47164	5.98	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.482				ND	
73 2-Nitropropane	41		5.644				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.318				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164	6.551	6.551	0.000	91	2535	0.4713	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.919				ND	
94 Bromoform	173		8.099				ND	
95 Isopropylbenzene	105		8.241				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.122				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.660				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6745.D

Injection Date: 02-Aug-2023 21:53:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-A-5

Lab Sample ID: 280-179475-5

Worklist Smp#: 22

Client ID: RW-2151H-20230720

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

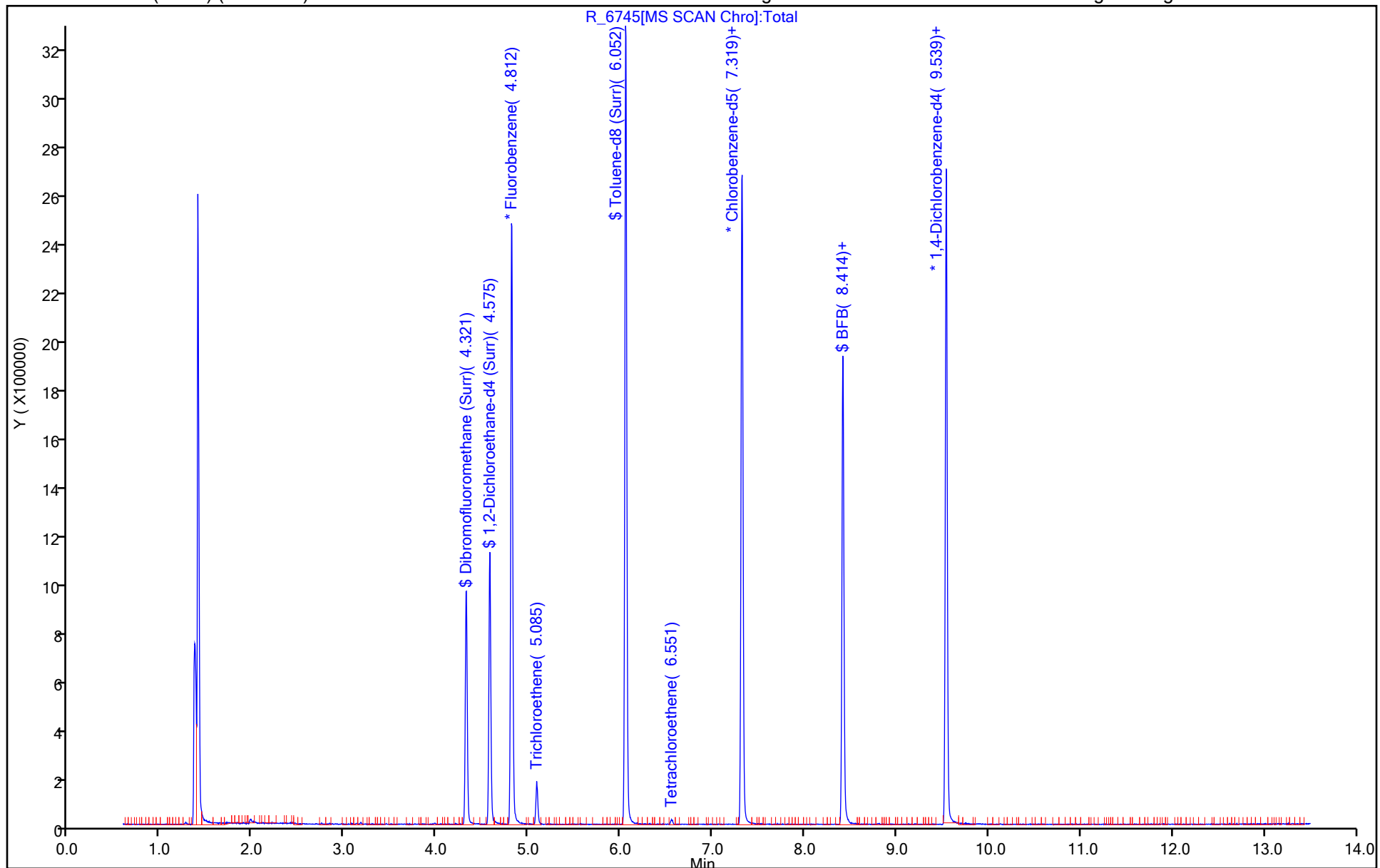
ALS Bottle#: 14

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6745.D
Lims ID: 280-179475-A-5
Client ID: RW-2151H-20230720
Sample Type: Client
Inject. Date: 02-Aug-2023 21:53:30 ALS Bottle#: 14 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-A-5
Misc. Info.: 280-0124131-022
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 22:45:41

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	52.5	104.94
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	55.7	111.38
\$ 6 Toluene-d8 (Surr)	50.0	50.5	101.09
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.5	102.99

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6745.D

Injection Date: 02-Aug-2023 21:53:30

Instrument ID: VMS_R1

Lims ID: 280-179475-A-5

Lab Sample ID: 280-179475-5

Client ID: RW-2151H-20230720

Operator ID: sjd

ALS Bottle#: 14

Worklist Smp#: 22

Purge Vol: 5.000 mL

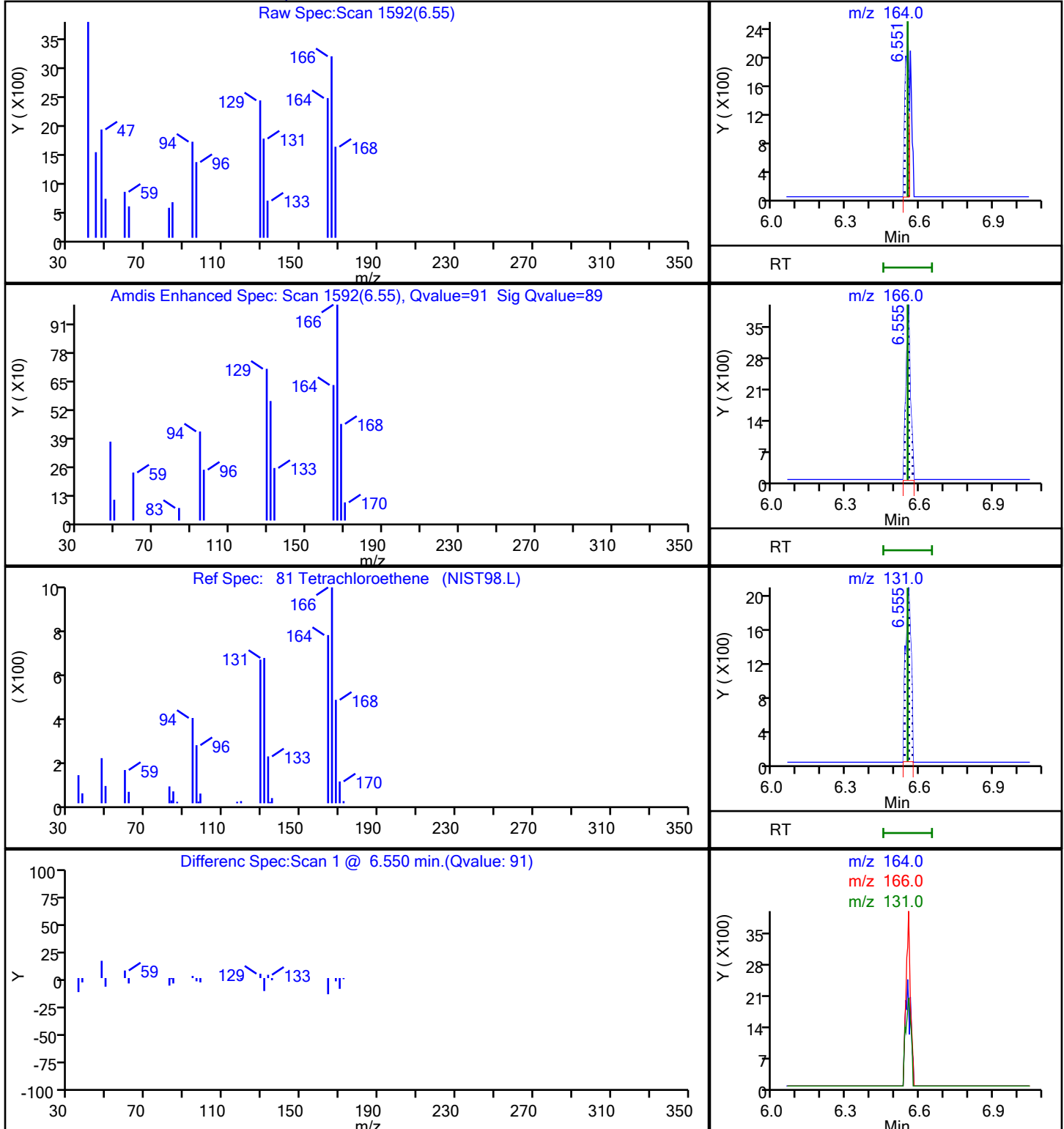
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

81 Tetrachloroethene, CAS: 127-18-4

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6745.D

Injection Date: 02-Aug-2023 21:53:30

Instrument ID: VMS_R1

Lims ID: 280-179475-A-5

Lab Sample ID: 280-179475-5

Client ID: RW-2151H-20230720

Operator ID: sjd

ALS Bottle#: 14

Worklist Smp#: 22

Purge Vol: 5.000 mL

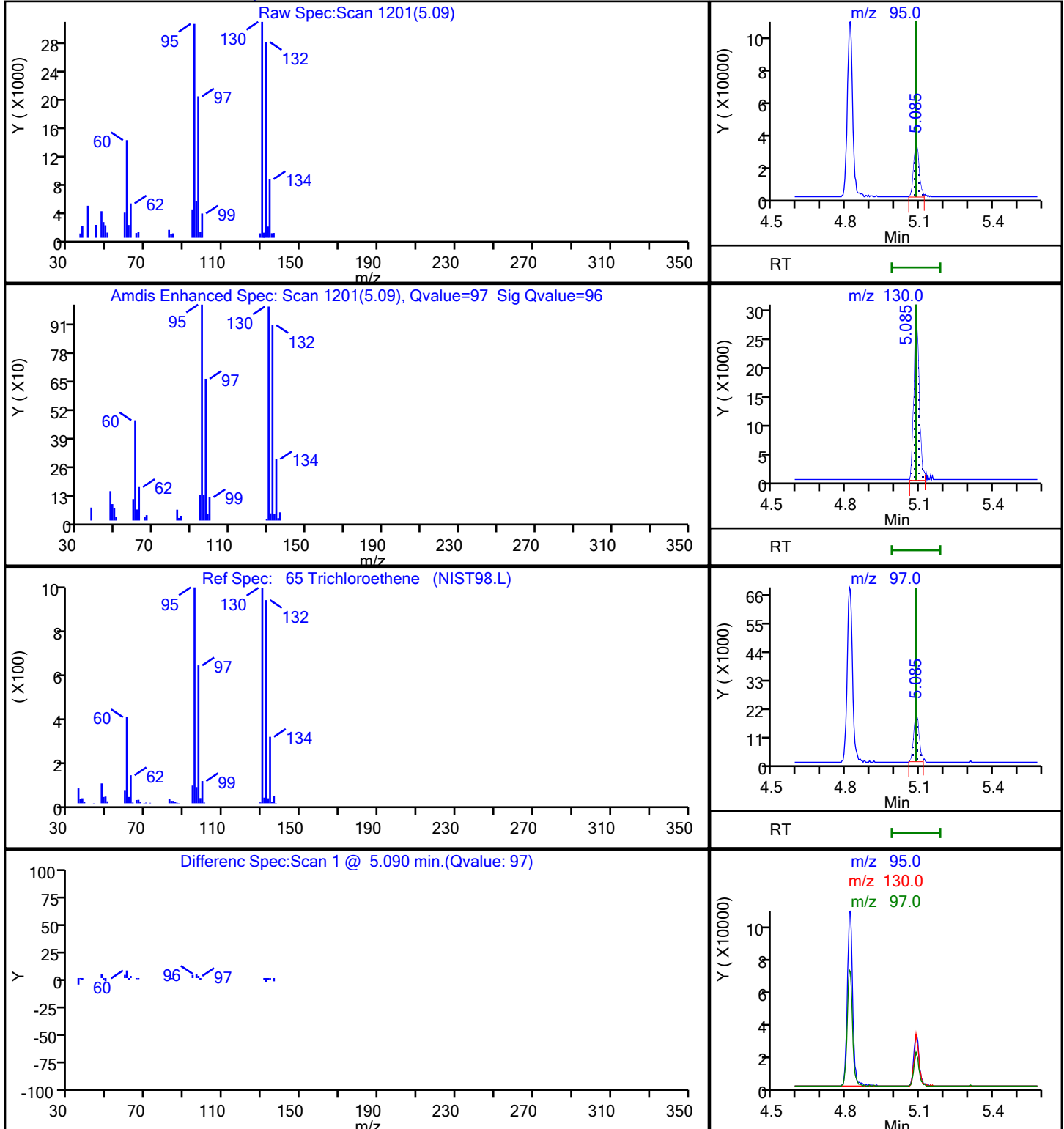
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2237H-20230720</u>	Lab Sample ID: <u>280-179475-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6746.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 13:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 22:14</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	1.5		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2237H-20230720</u>	Lab Sample ID: <u>280-179475-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6746.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 13:50</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 22:14</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	4.0		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	25		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*- *1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-2237H-20230720 Lab Sample ID: 280-179475-6
Matrix: Water Lab File ID: R_6746.D
Analysis Method: 8260D Date Collected: 07/20/2023 13:50
Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 22:14
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621621 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	103		80-125
1868-53-7	Dibromofluoromethane (Surr)	104		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6746.D
 Lims ID: 280-179475-A-6
 Client ID: RW-2237H-20230720
 Sample Type: Client
 Inject. Date: 02-Aug-2023 22:14:30 ALS Bottle#: 15 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-A-6
 Misc. Info.: 280-0124131-023
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 23:12:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.812	0.003	98	1658578	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	404188	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	611433	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.317	0.003	92	454147	52.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	585379	56.2	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.052	0.004	95	1788184	51.4	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	607912	51.3	
\$ 8 BFB	95	8.414	8.414	0.000	81	607912	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59	2.544	2.544	0.000	94	4148	0.5963	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.720				ND	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.843				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.941				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.451				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.623				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96	3.976	3.972	0.004	79	12732	1.52	
46 2,2-Dichloropropane	77		3.979				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.159				ND	
52 Chloroform	83	4.201	4.204	-0.003	1	3090	0.2181	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.455				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	7
64 n-Butanol	56		4.965				ND	
65 Trichloroethene	95	5.085	5.085	0.000	95	197180	25.3	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.482				ND	
73 2-Nitropropane	41		5.644				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.318				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164	6.551	6.551	0.000	89	21399	4.03	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.919				ND	
94 Bromoform	173		8.099				ND	
95 Isopropylbenzene	105		8.241				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.122				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.660				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1				0		0.2181	
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1				0		1.52	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 06:04:04

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6746.D

Injection Date: 02-Aug-2023 22:14:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-A-6

Lab Sample ID: 280-179475-6

Worklist Smp#: 23

Client ID: RW-2237H-20230720

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

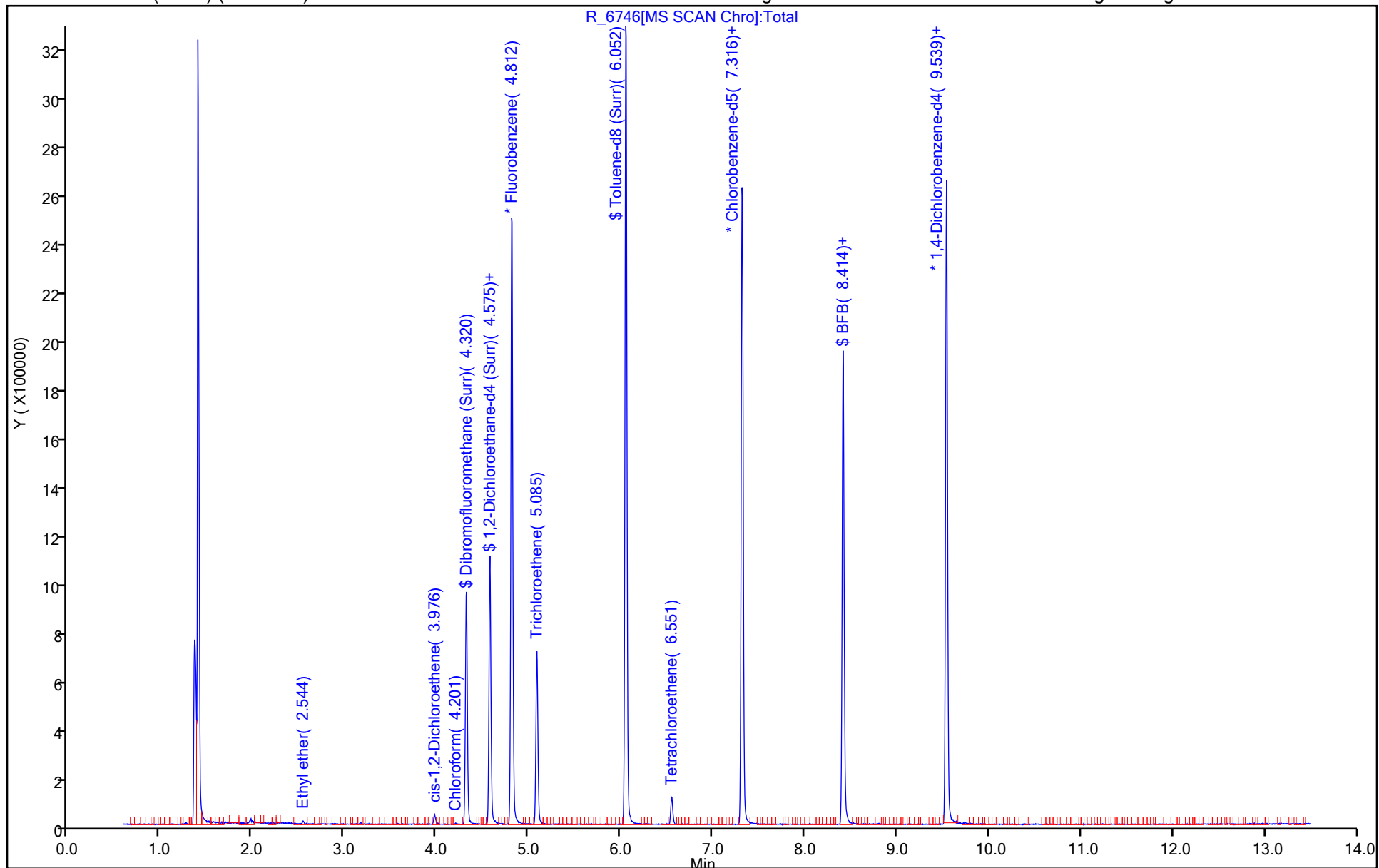
ALS Bottle#: 15

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6746.D
 Lims ID: 280-179475-A-6
 Client ID: RW-2237H-20230720
 Sample Type: Client
 Inject. Date: 02-Aug-2023 22:14:30 ALS Bottle#: 15 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-A-6
 Misc. Info.: 280-0124131-023
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 23:12:13

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	52.1	104.22
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	56.2	112.38
\$ 6 Toluene-d8 (Surr)	50.0	51.4	102.73
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.3	102.70

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6746.D

Injection Date: 02-Aug-2023 22:14:30

Instrument ID: VMS_R1

Lims ID: 280-179475-A-6

Lab Sample ID: 280-179475-6

Client ID: RW-2237H-20230720

Operator ID: sjd

ALS Bottle#: 15

Worklist Smp#: 23

Purge Vol: 5.000 mL

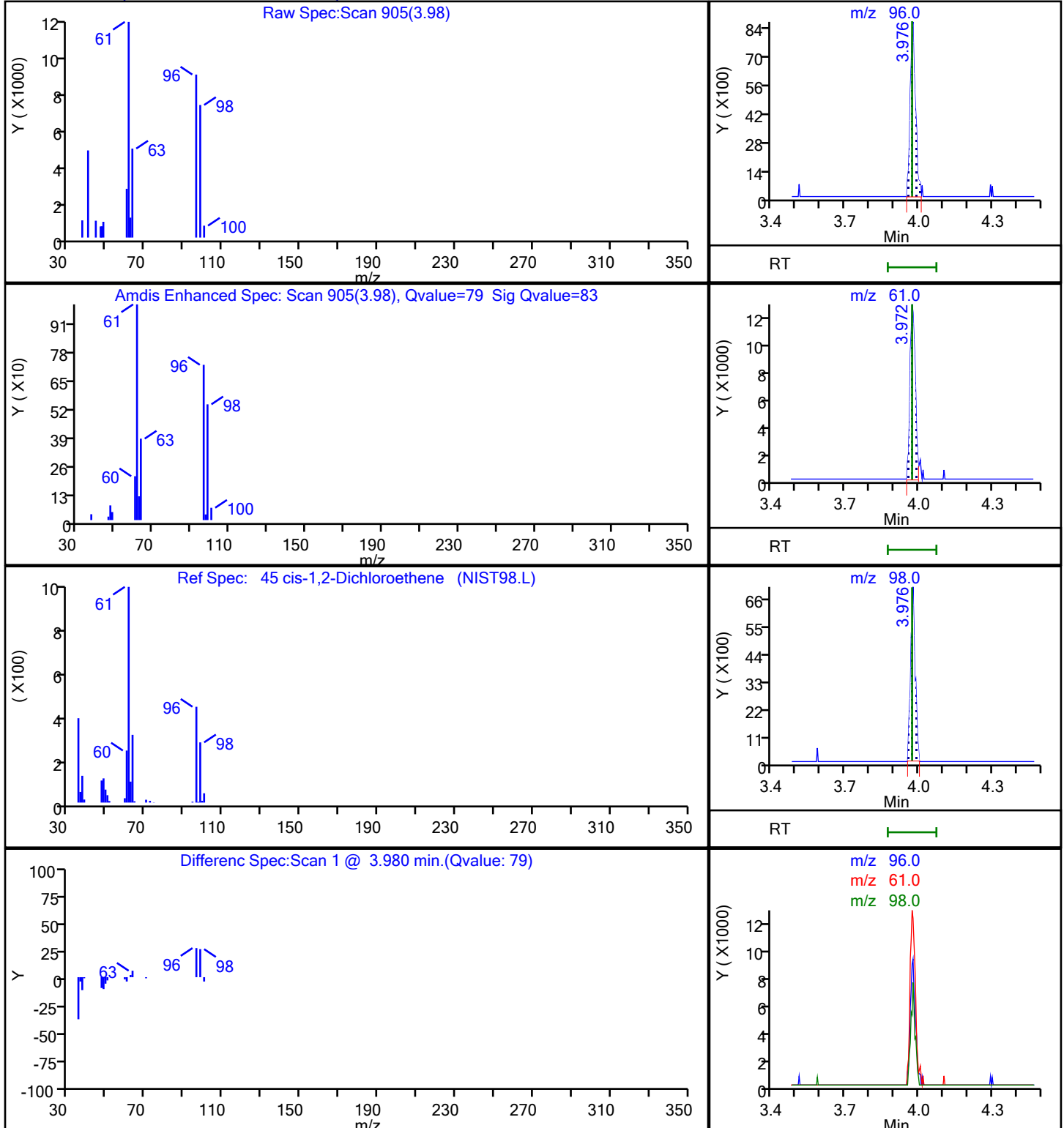
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6746.D

Injection Date: 02-Aug-2023 22:14:30

Instrument ID: VMS_R1

Lims ID: 280-179475-A-6

Lab Sample ID: 280-179475-6

Client ID: RW-2237H-20230720

Operator ID: sjd

ALS Bottle#: 15

Worklist Smp#: 23

Purge Vol: 5.000 mL

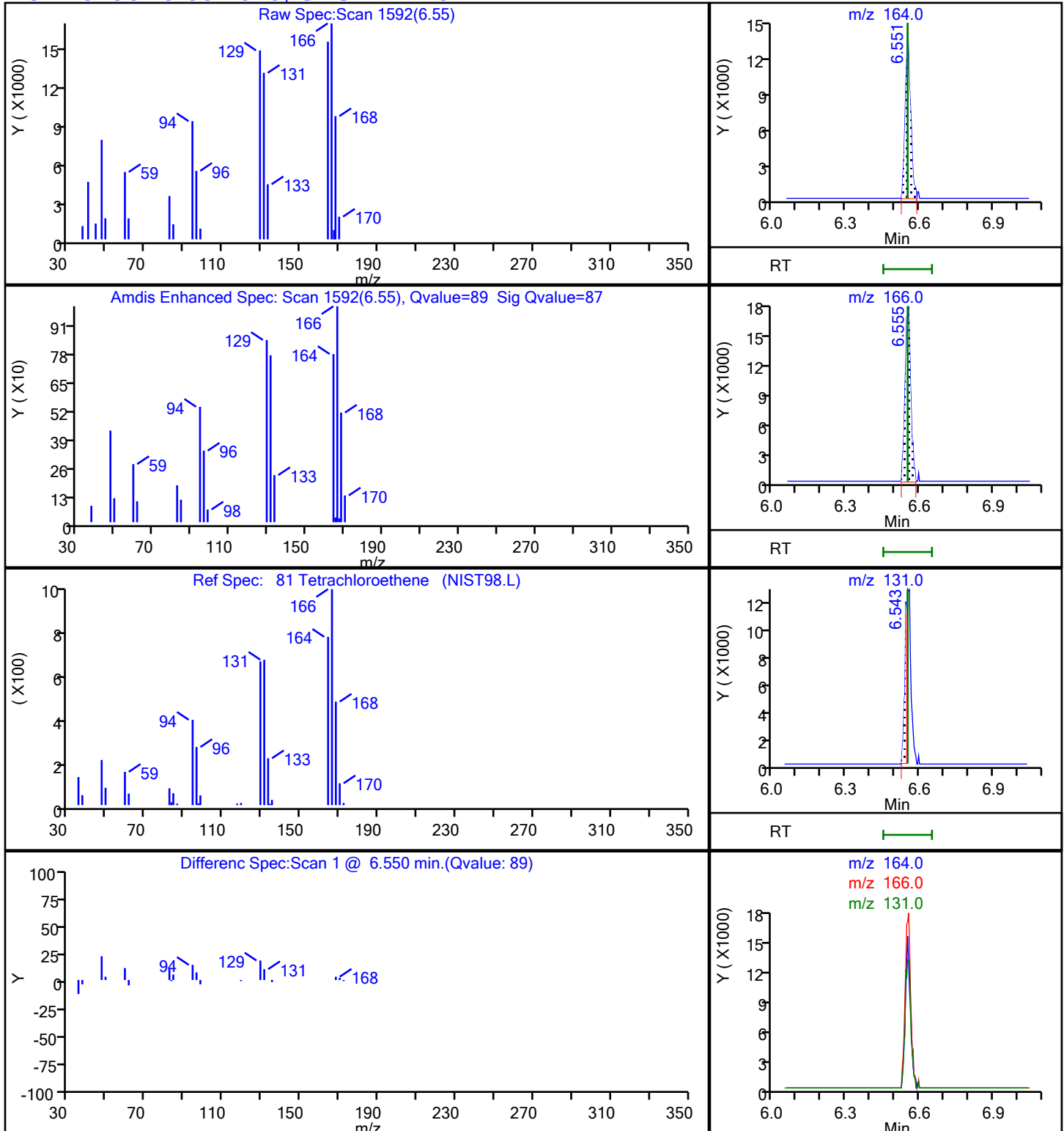
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

81 Tetrachloroethene, CAS: 127-18-4

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS R1\20230802-124131.b\R 6746.D

Injection Date: 02-Aug-2023 22:14:30

Instrument ID: VMS R1

Lims ID: 280-179475-A-6

Lab Sample ID: 280-179475-6

Client ID: RW-2237H-20230720

Operator ID: sid

ALS Bottle#: 15

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

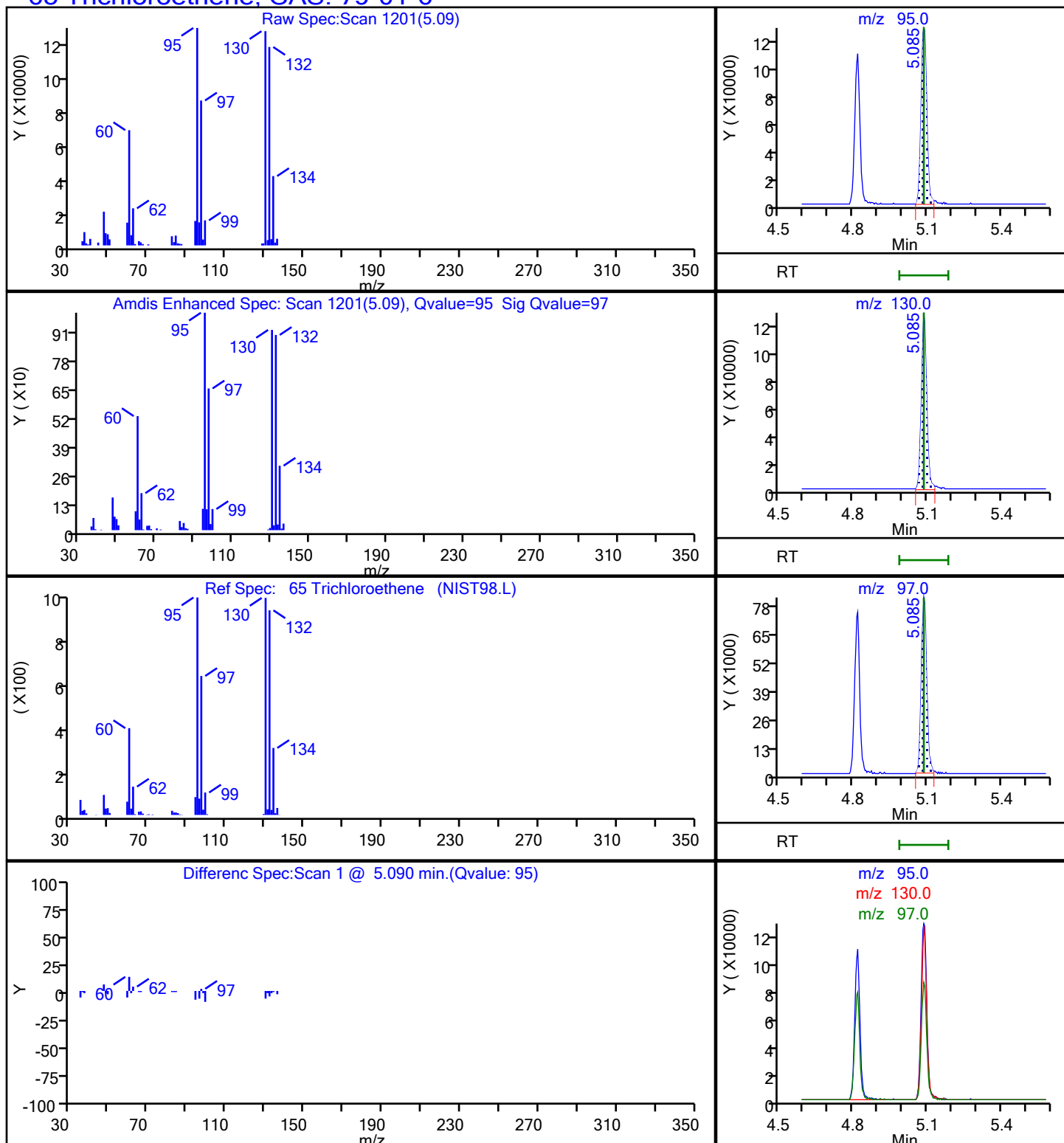
Method: AQ VMSR1 8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector MS SCAN

65 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7200P-20230720</u>	Lab Sample ID: <u>280-179475-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6747.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 15:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 22:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7200P-20230720</u>	Lab Sample ID: <u>280-179475-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6747.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 15:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 22:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*- *1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-7200P-20230720 Lab Sample ID: 280-179475-7
Matrix: Water Lab File ID: R_6747.D
Analysis Method: 8260D Date Collected: 07/20/2023 15:30
Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 22:35
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621621 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	103		80-125
1868-53-7	Dibromofluoromethane (Surr)	103		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6747.D
 Lims ID: 280-179475-C-7
 Client ID: RW-7200P-20230720
 Sample Type: Client
 Inject. Date: 02-Aug-2023 22:35:30 ALS Bottle#: 16 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-C-7
 Misc. Info.: 280-0124131-024
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 23:34:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.812	0.003	98	1673854	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	89	401402	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	601772	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.317	0.003	91	454918	51.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	575690	54.8	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1783617	51.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	598376	51.4	
\$ 8 BFB	95	8.414	8.414	0.000	82	598376	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59		2.544				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.720				ND	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.843				ND	
26 Carbon disulfide	76		2.900				ND	
27 Acetonitrile	41		2.941				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.451				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.623				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.979				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.159				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.455				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	7
64 n-Butanol	56		4.965				ND	
65 Trichloroethene	95		5.085				ND	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.482				ND	
73 2-Nitropropane	41		5.644				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.318				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.919				ND	
94 Bromoform	173		8.099				ND	
95 Isopropylbenzene	105		8.241				ND	
97 Cyclohexanone	55		8.335				ND	
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.122				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.660				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 06:04:06

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6747.D

Injection Date: 02-Aug-2023 22:35:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-C-7

Lab Sample ID: 280-179475-7

Worklist Smp#: 24

Client ID: RW-7200P-20230720

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

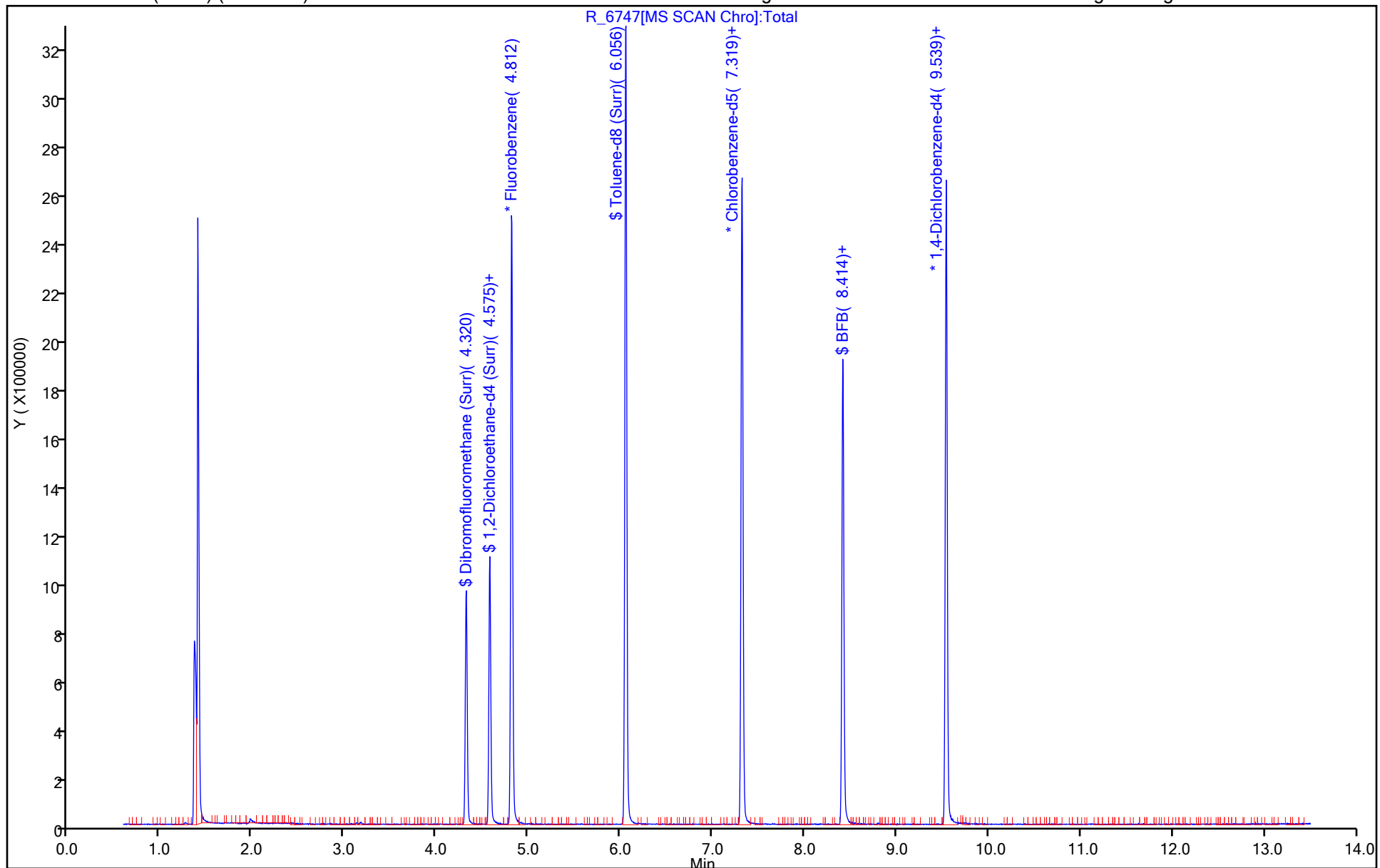
ALS Bottle#: 16

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6747.D
 Lims ID: 280-179475-C-7
 Client ID: RW-7200P-20230720
 Sample Type: Client
 Inject. Date: 02-Aug-2023 22:35:30 ALS Bottle#: 16 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-C-7
 Misc. Info.: 280-0124131-024
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 23:34:54

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	51.7	103.44
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	54.8	109.51
\$ 6 Toluene-d8 (Surr)	50.0	51.6	103.18
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.4	102.71

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8105PS-20230720</u>	Lab Sample ID: <u>280-179475-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6748.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 15:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 22:56</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8105PS-20230720</u>	Lab Sample ID: <u>280-179475-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6748.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 15:20</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/02/2023 22:56</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25(mm)</u>
Purge Volume: <u>5.0(mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*- *1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-8105PS-20230720 Lab Sample ID: 280-179475-8
Matrix: Water Lab File ID: R_6748.D
Analysis Method: 8260D Date Collected: 07/20/2023 15:20
Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 22:56
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621621 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	106		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6748.D
 Lims ID: 280-179475-B-8
 Client ID: RW-8105PS-20230720
 Sample Type: Client
 Inject. Date: 02-Aug-2023 22:56:30 ALS Bottle#: 17 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-B-8
 Misc. Info.: 280-0124131-025
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 23:48:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.812	0.003	98	1686494	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	89	412350	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.539	0.003	98	618768	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.317	0.000	92	469469	53.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	584619	55.2	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1793894	50.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	82	612790	51.1	
\$ 8 BFB	95	8.414	8.414	0.000	81	612790	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59		2.544				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.720				ND	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.746				ND	
25 Iodomethane	142		2.843				ND	
26 Carbon disulfide	76		2.900				ND	
27 Acetonitrile	41		2.941				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.451				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.623				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.979				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.159				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.455				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	7
64 n-Butanol	56		4.965				ND	
65 Trichloroethene	95		5.085				ND	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.482				ND	
73 2-Nitropropane	41		5.644				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.318				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.919				ND	
94 Bromoform	173		8.099				ND	
95 Isopropylbenzene	105		8.241				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.122				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.660				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 06:04:07

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6748.D

Injection Date: 02-Aug-2023 22:56:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-B-8

Lab Sample ID: 280-179475-8

Worklist Smp#: 25

Client ID: RW-8105PS-20230720

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

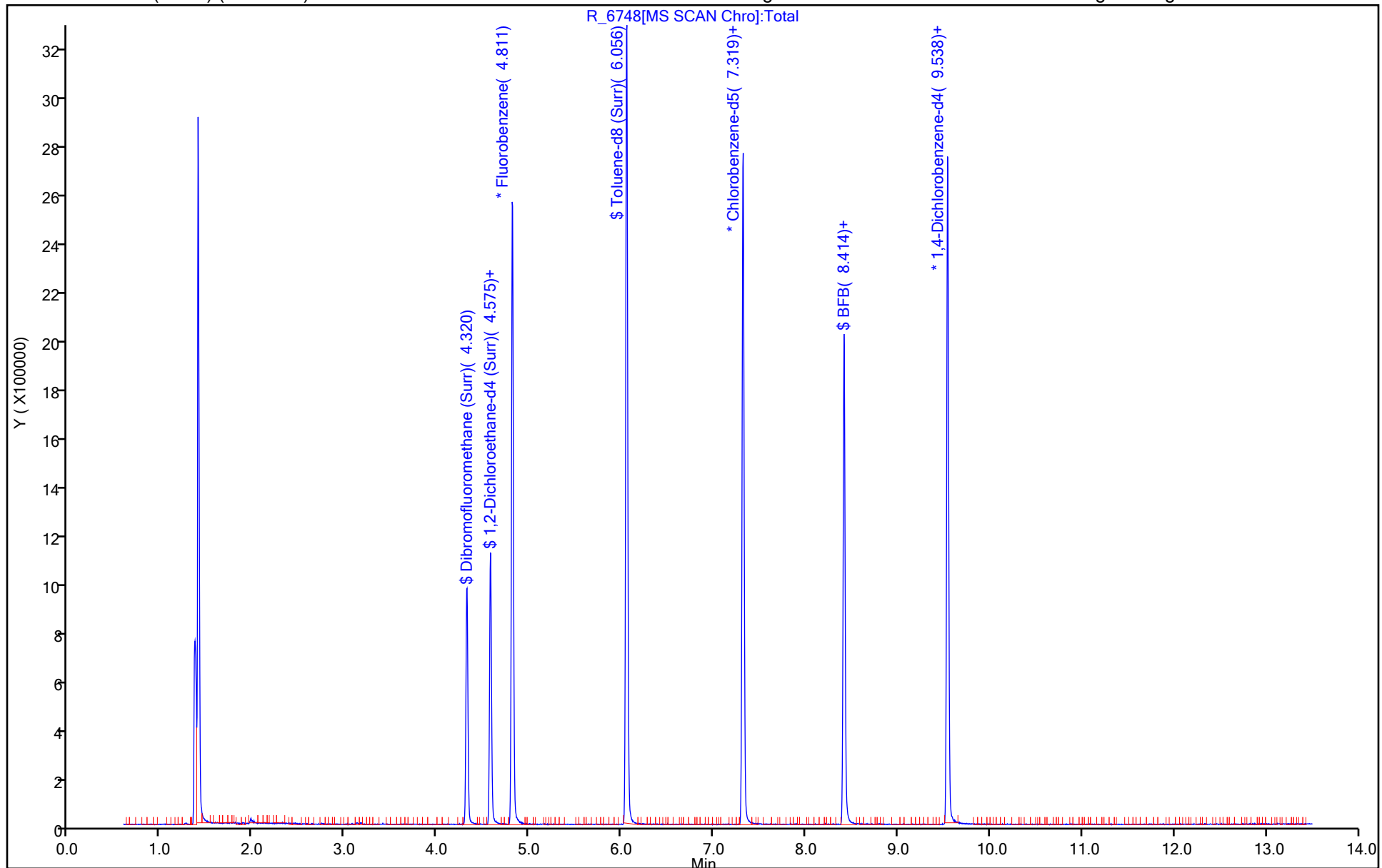
ALS Bottle#: 17

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6748.D
Lims ID: 280-179475-B-8
Client ID: RW-8105PS-20230720
Sample Type: Client
Inject. Date: 02-Aug-2023 22:56:30 ALS Bottle#: 17 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-B-8
Misc. Info.: 280-0124131-025
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 23:48:44

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	53.0	105.95
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	55.2	110.37
\$ 6 Toluene-d8 (Surr)	50.0	50.5	101.02
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.1	102.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7505P-20230720</u>	Lab Sample ID: <u>280-179475-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6749.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 16:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 23:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7505P-20230720</u>	Lab Sample ID: <u>280-179475-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6749.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 16:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 23:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*- *1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-7505P-20230720 Lab Sample ID: 280-179475-9
Matrix: Water Lab File ID: R_6749.D
Analysis Method: 8260D Date Collected: 07/20/2023 16:25
Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 23:17
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621621 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	106		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6749.D
 Lims ID: 280-179475-C-9
 Client ID: RW-7505P-20230720
 Sample Type: Client
 Inject. Date: 02-Aug-2023 23:17:30 ALS Bottle#: 18 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-C-9
 Misc. Info.: 280-0124131-026
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 23:36:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.812	0.000	98	1692639	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	411871	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	627370	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.317	0.000	92	471810	53.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	590802	55.6	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1809516	51.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	621109	51.1	
\$ 8 BFB	95	8.414	8.414	0.000	82	621109	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59		2.544				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.720				ND	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.843				ND	
26 Carbon disulfide	76		2.900				ND	
27 Acetonitrile	41		2.941				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.451				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.623				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.979				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.159				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.455				ND	
57 Isobutyl alcohol	41		4.474				ND	U
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	U
64 n-Butanol	56		4.965				ND	
65 Trichloroethene	95		5.085				ND	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.482				ND	
73 2-Nitropropane	41		5.644				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.318				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.919				ND	
94 Bromoform	173		8.099				ND	
95 Isopropylbenzene	105		8.241				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.122				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.660				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 06:04:08

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6749.D

Injection Date: 02-Aug-2023 23:17:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-C-9

Lab Sample ID: 280-179475-9

Worklist Smp#: 26

Client ID: RW-7505P-20230720

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

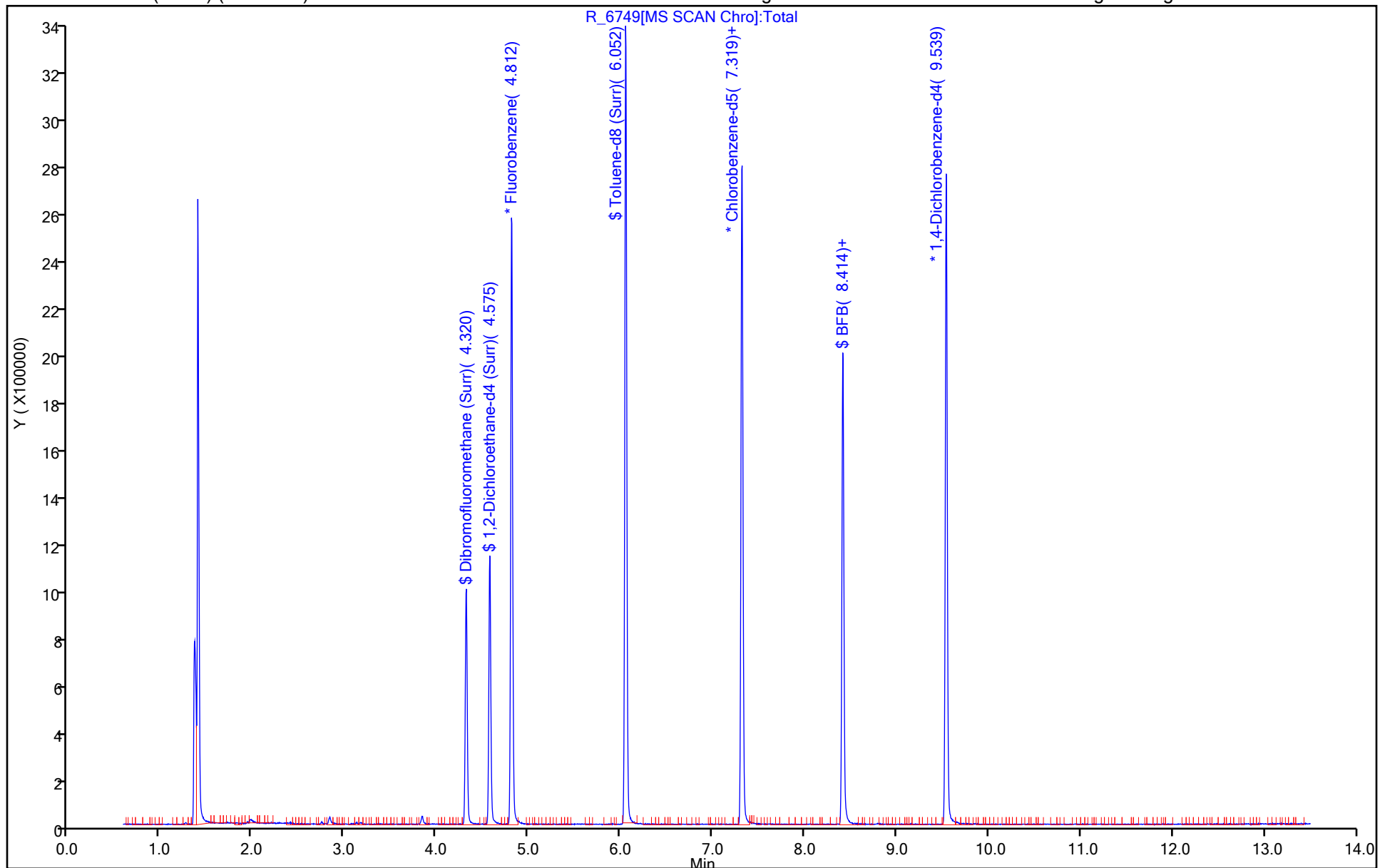
ALS Bottle#: 18

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6749.D
Lims ID: 280-179475-C-9
Client ID: RW-7505P-20230720
Sample Type: Client
Inject. Date: 02-Aug-2023 23:17:30 ALS Bottle#: 18 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-C-9
Misc. Info.: 280-0124131-026
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: J6NB

Date: 02-Aug-2023 23:36:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	53.0	106.10
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	55.6	111.14
\$ 6 Toluene-d8 (Surr)	50.0	51.0	102.02
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.1	102.26

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6749.D

Injection Date: 02-Aug-2023 23:17:30

Instrument ID: VMS_R1

Lims ID: 280-179475-C-9

Lab Sample ID: 280-179475-9

Client ID: RW-7505P-20230720

Operator ID: sjd

ALS Bottle#:

18

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

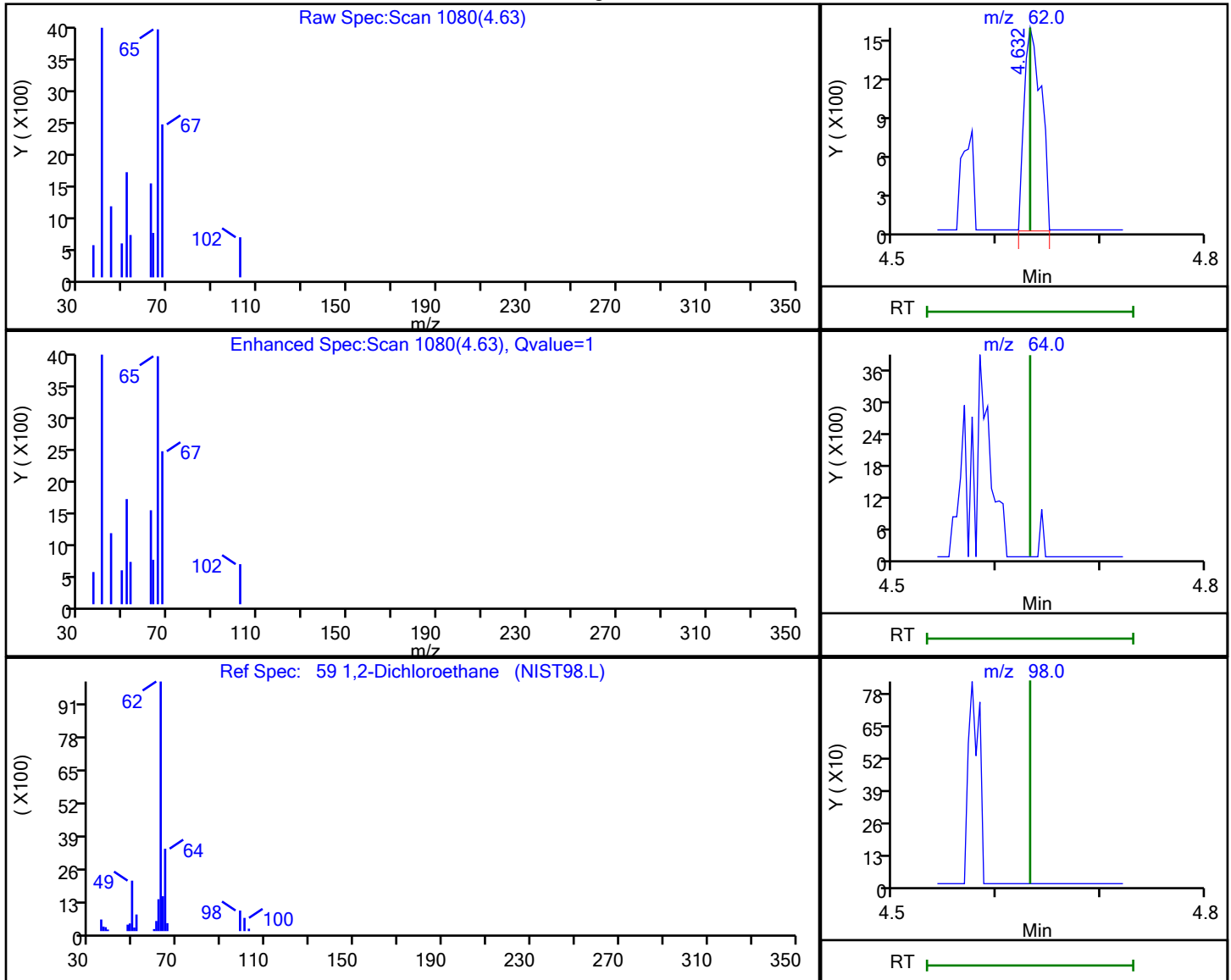
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.63	62.00	1721	0.148301
4.63	64.00	0	
4.63	98.00	0	

Reviewer: J6NB, 02-Aug-2023 23:35:49 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6749.D

Injection Date: 02-Aug-2023 23:17:30

Instrument ID: VMS_R1

Lims ID: 280-179475-C-9

Lab Sample ID: 280-179475-9

Client ID: RW-7505P-20230720

Operator ID: sjd

ALS Bottle#:

18

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

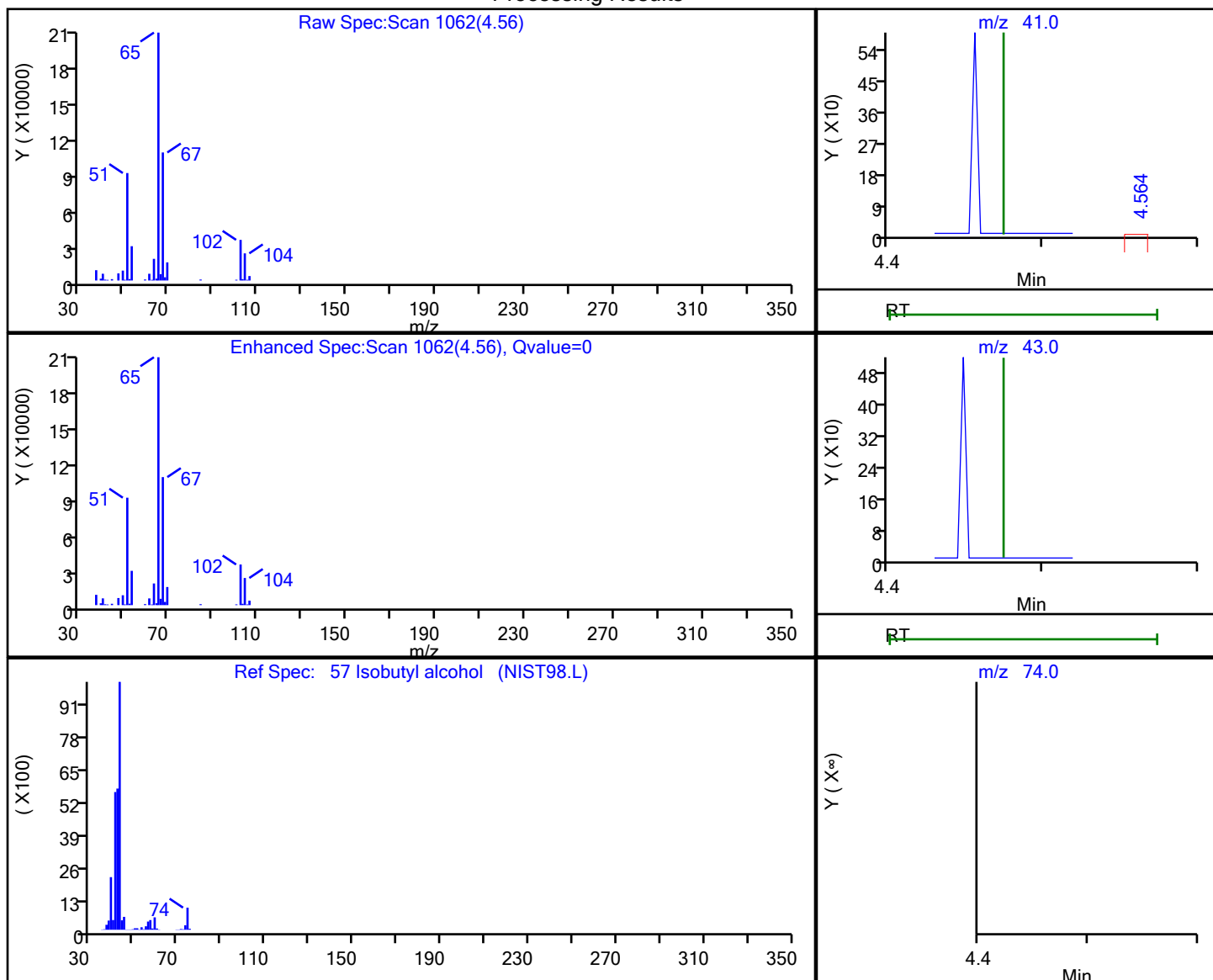
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

57 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.56	41.00	296	11.093177
4.47	43.00	0	
4.47	74.00	0	

Reviewer: J6NB, 02-Aug-2023 23:35:42 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7505P-Q-20230720</u>	Lab Sample ID: <u>280-179475-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6750.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 16:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 23:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7505P-Q-20230720</u>	Lab Sample ID: <u>280-179475-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6750.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 16:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 23:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*- *1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-7505P-Q-20230720 Lab Sample ID: 280-179475-10
Matrix: Water Lab File ID: R_6750.D
Analysis Method: 8260D Date Collected: 07/20/2023 16:25
Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 23:37
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621621 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	105		80-125
1868-53-7	Dibromofluoromethane (Surr)	107		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6750.D
 Lims ID: 280-179475-B-10
 Client ID: RW-7505P-Q-20230720
 Sample Type: Client
 Inject. Date: 02-Aug-2023 23:37:30 ALS Bottle#: 19 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-B-10
 Misc. Info.: 280-0124131-027
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1623

First Level Reviewer: AF7X

Date: 03-Aug-2023 06:00:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.812	0.003	98	1672218	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	398635	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.538	9.539	-0.001	97	619490	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.317	0.003	92	470214	53.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	580217	55.2	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.052	0.004	95	1803512	52.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	612587	51.1	
\$ 8 BFB	95	8.414	8.414	0.000	82	612587	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59		2.544				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.720				ND	
22 1,1-Dichloroethene	96		2.723				ND	
23 Acetone	43		2.746				ND	
25 Iodomethane	142		2.843				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.941				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.451				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.623				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.979				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.159				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.455				ND	
57 Isobutyl alcohol	41		4.474				ND	U
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	7
64 n-Butanol	56		4.965				ND	
65 Trichloroethene	95		5.085				ND	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.482				ND	
73 2-Nitropropane	41		5.644				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.318				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.919				ND	
94 Bromoform	173		8.099				ND	
95 Isopropylbenzene	105		8.241				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.122				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.660				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 06:04:09

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6750.D

Injection Date: 02-Aug-2023 23:37:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-B-10

Lab Sample ID: 280-179475-10

Worklist Smp#: 27

Client ID: RW-7505P-Q-20230720

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

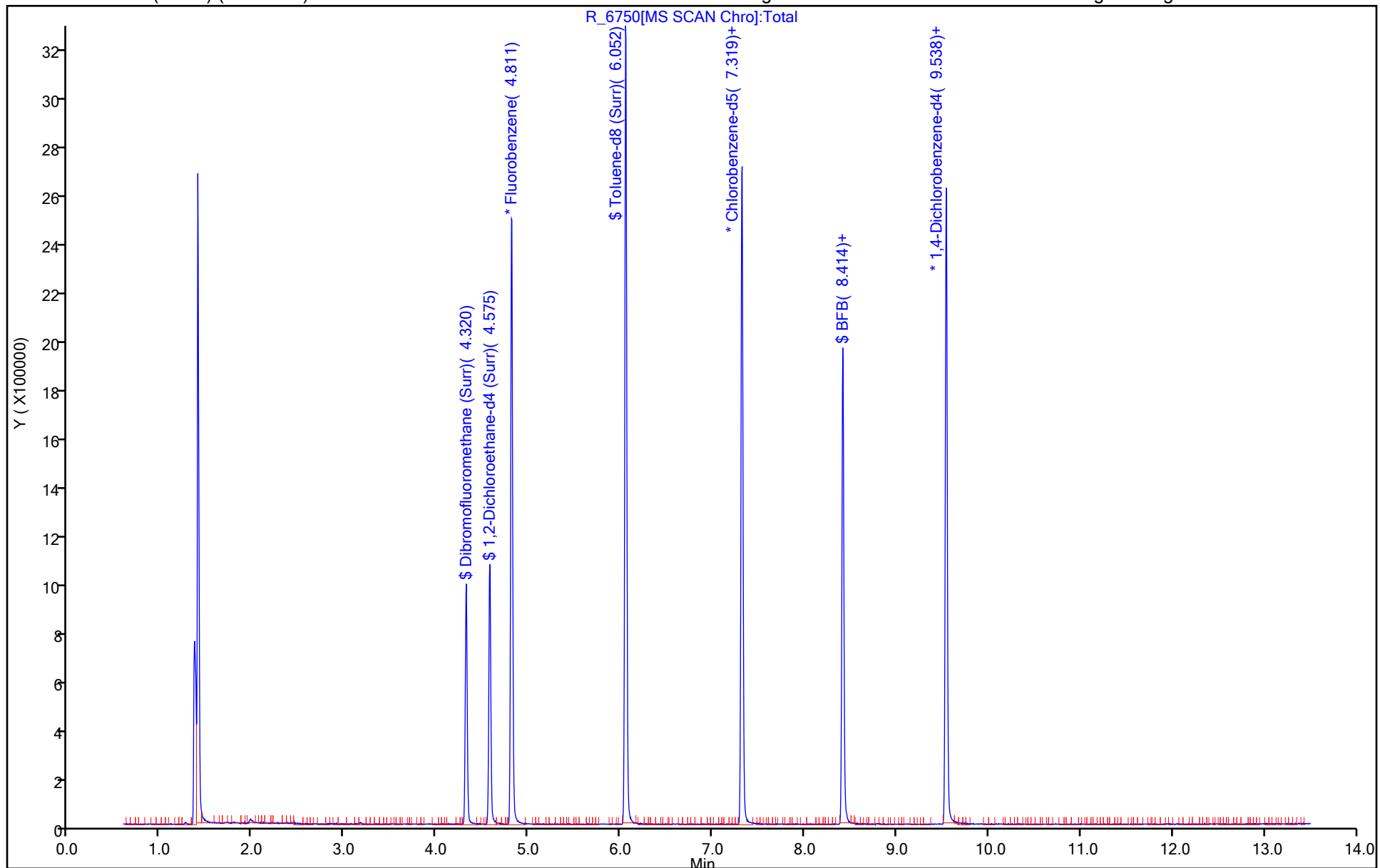
ALS Bottle#: 19

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6750.D
Lims ID: 280-179475-B-10
Client ID: RW-7505P-Q-20230720
Sample Type: Client
Inject. Date: 02-Aug-2023 23:37:30 ALS Bottle#: 19 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-B-10
Misc. Info.: 280-0124131-027
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 06:02:36 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1623

First Level Reviewer: AF7X

Date: 03-Aug-2023 06:00:22

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	53.5	107.03
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	55.2	110.48
\$ 6 Toluene-d8 (Surr)	50.0	52.5	105.05
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.1	102.14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6750.D

Injection Date: 02-Aug-2023 23:37:30

Instrument ID: VMS_R1

Lims ID: 280-179475-B-10

Lab Sample ID: 280-179475-10

Client ID: RW-7505P-Q-20230720

Operator ID: sjd

ALS Bottle#:

19

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

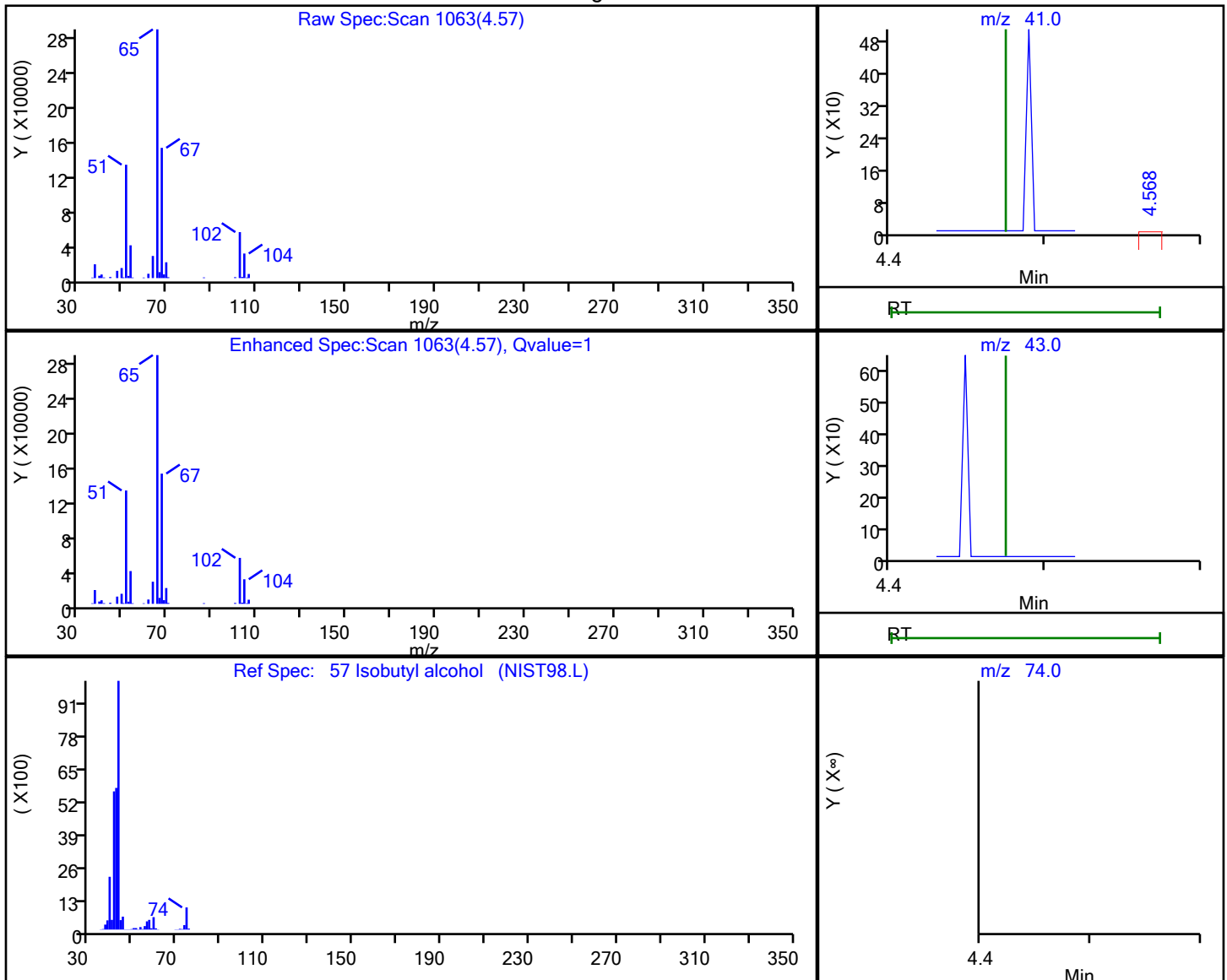
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

57 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.57	41.00	161	10.687946
4.47	43.00	0	
4.47	74.00	0	

Reviewer: AF7X, 03-Aug-2023 06:00:11 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>TB-01-20230723</u>	Lab Sample ID: <u>280-179475-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6793.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/23/2023 21:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 18:46</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND	*1	2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>TB-01-20230723</u>	Lab Sample ID: <u>280-179475-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6793.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/23/2023 21:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 18:46</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND	*1	3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND	*+	15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: TB-01-20230723 Lab Sample ID: 280-179475-11
Matrix: Water Lab File ID: R_6793.D
Analysis Method: 8260D Date Collected: 07/23/2023 21:30
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 18:46
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621775 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
2037-26-5	Toluene-d8 (Surr)	99		80-125
1868-53-7	Dibromofluoromethane (Surr)	102		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6793.D
 Lims ID: 280-179475-A-11
 Client ID: TB-01-20230723
 Sample Type: Client
 Inject. Date: 03-Aug-2023 18:46:30 ALS Bottle#: 5 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-A-11
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:11:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.815	-0.003	98	1799283	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	89	445447	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	669671	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	483873	51.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	615814	54.5	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1907056	49.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	682916	52.7	
\$ 8 BFB	95	8.414	8.414	0.000	82	682916	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.801				ND	
13 Bromomethane	94		2.068				ND	
14 Chloroethane	64		2.150				ND	
16 Trichlorofluoromethane	101		2.341				ND	
18 Ethyl ether	59		2.547				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.724				ND	
22 1,1-Dichloroethene	96		2.724				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.840				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.945				ND	
28 Methyl acetate	43		2.967				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.072				ND	7
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.455				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.575				ND	
40 2-Chloro-1,3-butadiene	53		3.627				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.983				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.148				ND	
51 Tetrahydrofuran	42		4.156				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.455				ND	
56 Carbon tetrachloride	117		4.459				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	7
59 1,2-Dichloroethane	62		4.632				ND	
64 n-Butanol	56		4.969				ND	
65 Trichloroethene	95		5.085				ND	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.483				ND	
73 2-Nitropropane	41		5.647				ND	
74 2-Chloroethyl vinyl ether	63		5.685				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.289				ND	
79 Ethyl methacrylate	69		6.319				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.915				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.417				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106	7.548	7.544	0.004	0	2397	0.1606	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.915				ND	
94 Bromoform	173		8.095				ND	
95 Isopropylbenzene	105		8.242				ND	
97 Cyclohexanone	55	8.410	8.335	0.075	36	1582	14.9	
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.553				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	
103 2-Chlorotoluene	126		8.733				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.119				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.891				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.697				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.664				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.013				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106				0		0.1606	
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 23:17:23

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6793.D

Injection Date: 03-Aug-2023 18:46:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-A-11

Lab Sample ID: 280-179475-11

Worklist Smp#: 13

Client ID: TB-01-20230723

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

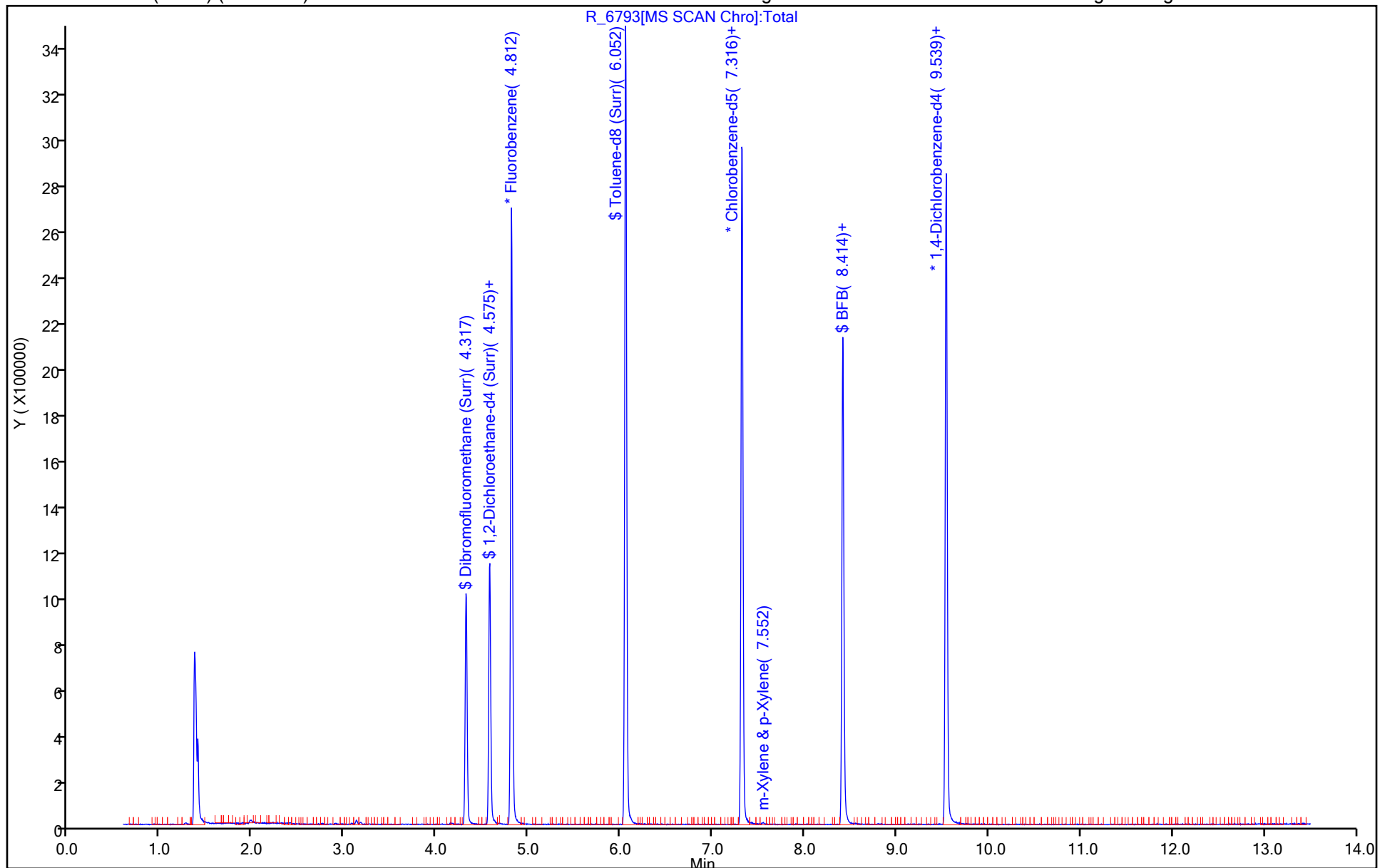
ALS Bottle#: 5

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6793.D
Lims ID: 280-179475-A-11
Client ID: TB-01-20230723
Sample Type: Client
Inject. Date: 03-Aug-2023 18:46:30 ALS Bottle#: 5 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-A-11
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:11:35

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	51.2	102.36
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	54.5	108.97
\$ 6 Toluene-d8 (Surr)	50.0	49.7	99.41
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.7	105.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2140H-20230723</u>	Lab Sample ID: <u>280-179475-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6797.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/23/2023 14:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 20:14</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND	*1	2.0	0.75
156-59-2	cis-1,2-Dichloroethene	1.4		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2140H-20230723</u>	Lab Sample ID: <u>280-179475-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6797.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/23/2023 14:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 20:14</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND	*1	3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	4.3		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	24		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND	*+	15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: RW-2140H-20230723 Lab Sample ID: 280-179475-12
Matrix: Water Lab File ID: R_6797.D
Analysis Method: 8260D Date Collected: 07/23/2023 14:30
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 20:14
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621775 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	103		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6797.D
 Lims ID: 280-179475-B-12
 Client ID: RW-2140H-20230723
 Sample Type: Client
 Inject. Date: 03-Aug-2023 20:14:30 ALS Bottle#: 9 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-B-12
 Misc. Info.: 280-0124173-016
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:13:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.815	-0.004	98	1786340	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	437534	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.538	9.539	-0.001	98	636238	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	485374	51.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	614221	54.7	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1890408	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	645446	52.4	
\$ 8 BFB	95	8.414	8.414	0.000	82	645446	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.801				ND	
13 Bromomethane	94		2.068				ND	
14 Chloroethane	64		2.150				ND	
16 Trichlorofluoromethane	101		2.341				ND	
18 Ethyl ether	59	2.544	2.547	-0.003	83	3662	0.4887	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.724				ND	
22 1,1-Dichloroethene	96		2.724				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.840				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.945				ND	
28 Methyl acetate	43		2.967				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.072				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.455				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.575				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.627				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96	3.979	3.972	0.007	83	12561	1.39	
46 2,2-Dichloropropane	77		3.983				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.148				ND	
51 Tetrahydrofuran	42		4.156				ND	
52 Chloroform	83	4.204	4.204	0.000	90	4455	0.2919	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.455				ND	
56 Carbon tetrachloride	117		4.459				ND	
57 Isobutyl alcohol	41		4.474				ND	U
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	7
64 n-Butanol	56		4.969				ND	
65 Trichloroethene	95	5.085	5.085	0.000	95	200646	23.8	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.483				ND	
73 2-Nitropropane	41		5.647				ND	
74 2-Chloroethyl vinyl ether	63		5.685				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.289				ND	
79 Ethyl methacrylate	69		6.319				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164	6.551	6.551	0.000	93	24480	4.26	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.915				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.417				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	7
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.915				ND	
94 Bromoform	173		8.095				ND	
95 Isopropylbenzene	105		8.242				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.553				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.119				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.891				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.697				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.664				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.013				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1				0		0.2919	
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1				0		1.39	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6797.D

Injection Date: 03-Aug-2023 20:14:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-B-12

Lab Sample ID: 280-179475-12

Worklist Smp#: 16

Client ID: RW-2140H-20230723

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

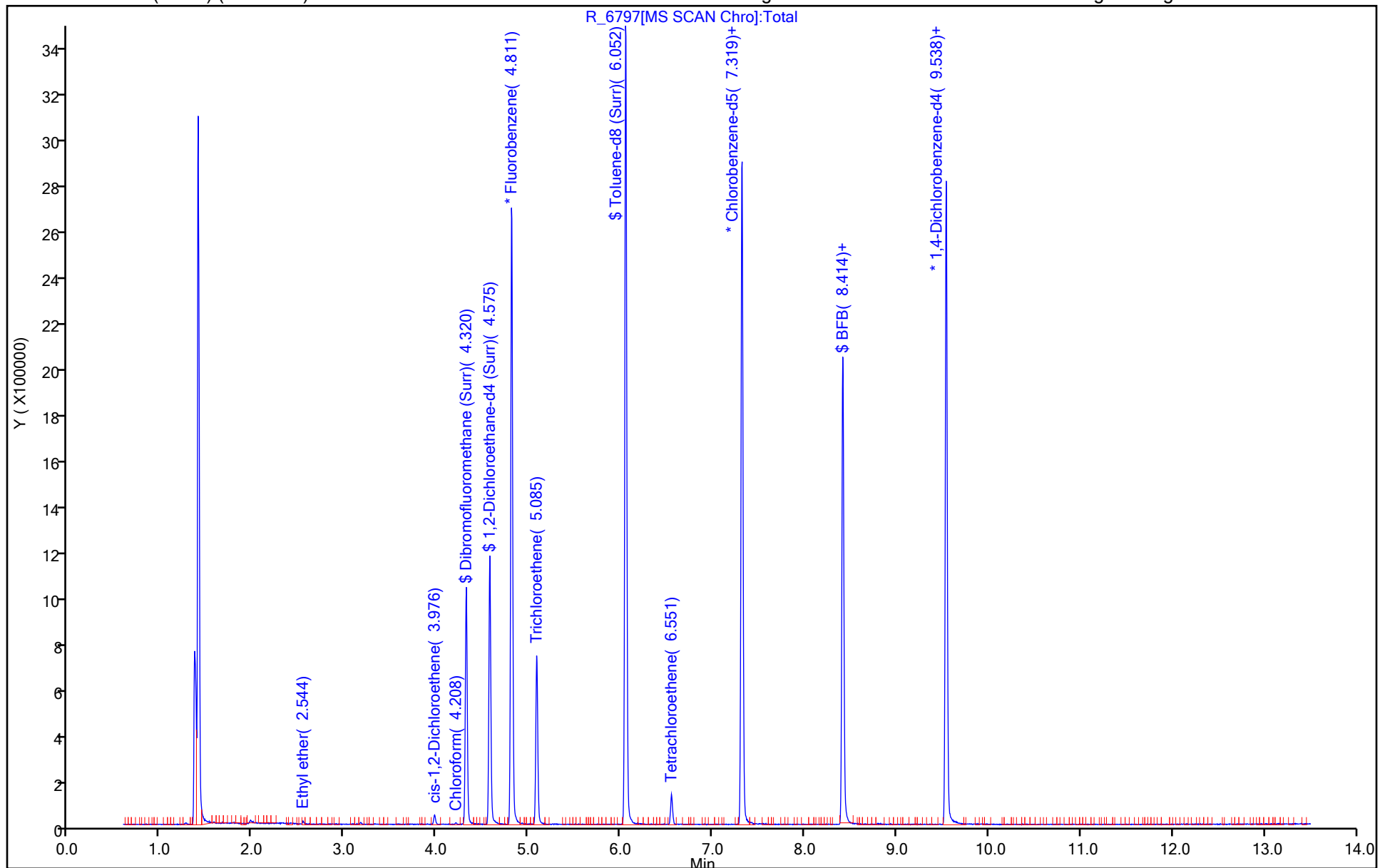
ALS Bottle#: 9

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\IR_6797.D
Lims ID: 280-179475-B-12
Client ID: RW-2140H-20230723
Sample Type: Client
Inject. Date: 03-Aug-2023 20:14:30 ALS Bottle#: 9 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-B-12
Misc. Info.: 280-0124173-016
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\IR_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:13:56

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	51.7	103.42
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	54.7	109.48
\$ 6 Toluene-d8 (Surr)	50.0	50.2	100.33
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.4	104.79

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6797.D

Injection Date: 03-Aug-2023 20:14:30

Instrument ID: VMS_R1

Lims ID: 280-179475-B-12

Lab Sample ID: 280-179475-12

Client ID: RW-2140H-20230723

Operator ID: sjd

ALS Bottle#: 9

Worklist Smp#: 16

Purge Vol: 5.000 mL

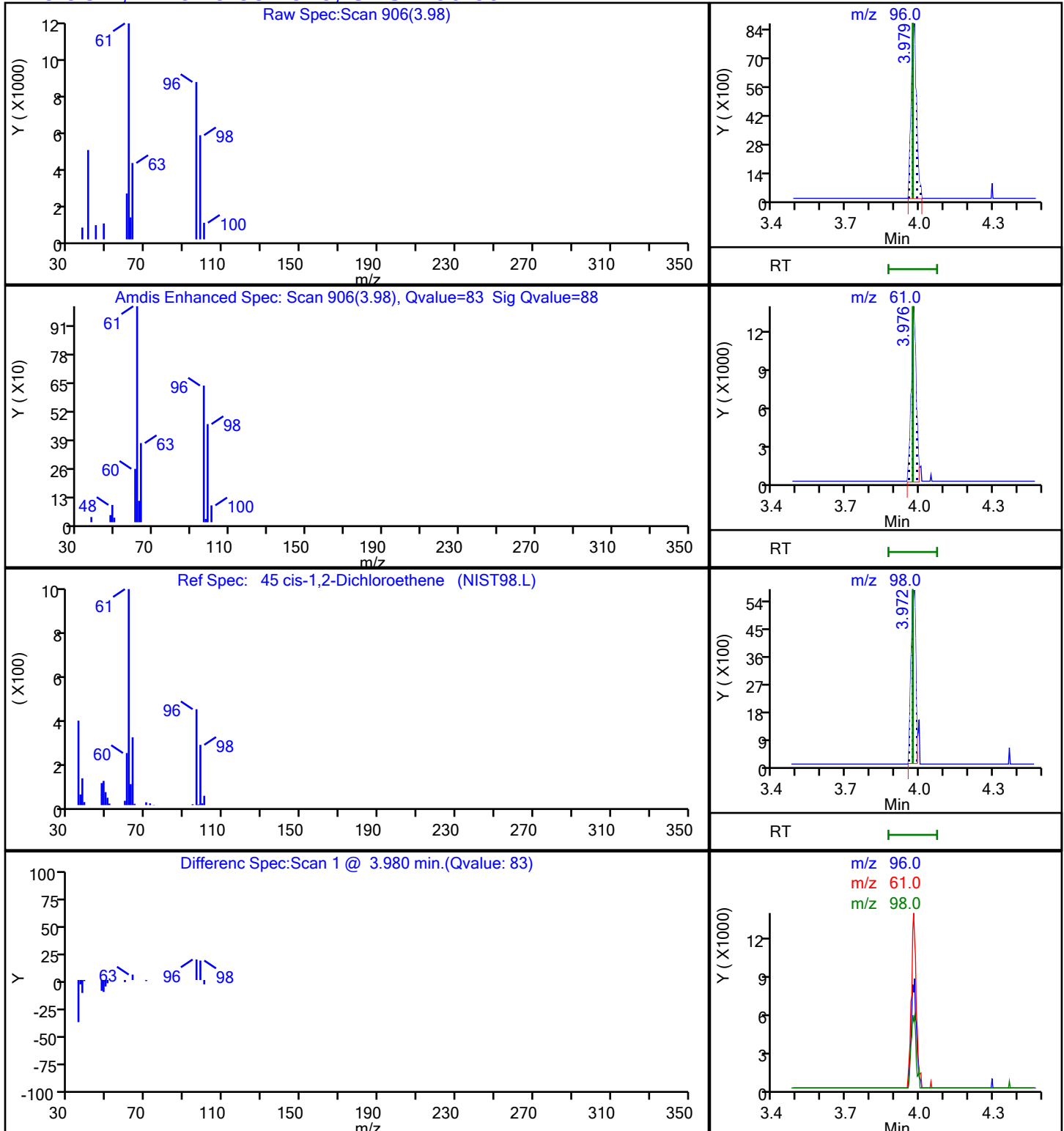
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6797.D

Injection Date: 03-Aug-2023 20:14:30

Instrument ID: VMS_R1

Lims ID: 280-179475-B-12

Lab Sample ID: 280-179475-12

Client ID: RW-2140H-20230723

Operator ID: sjd

ALS Bottle#: 9

Worklist Smp#: 16

Purge Vol: 5.000 mL

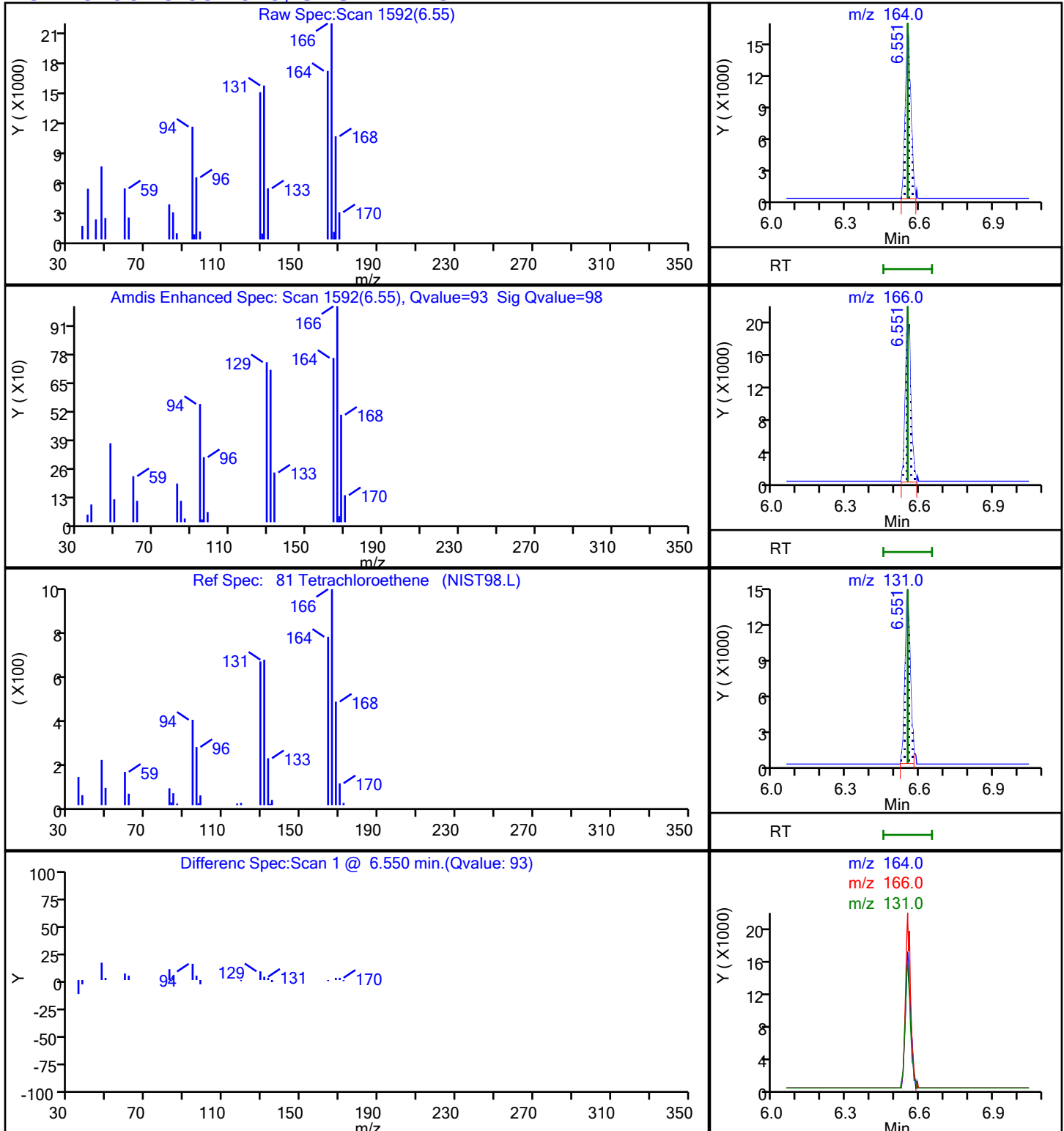
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

81 Tetrachloroethene, CAS: 127-18-4

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS R1\20230803-124173.b\R 6797.D

Injection Date: 03-Aug-2023 20:14:30

Instrument ID: VMS R1

Lims ID: 280-179475-B-12

Lab Sample ID: 280-179475-12

Client ID: RW-2140H-20230723

Operator ID: sid

ALS Bottle#: 9

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

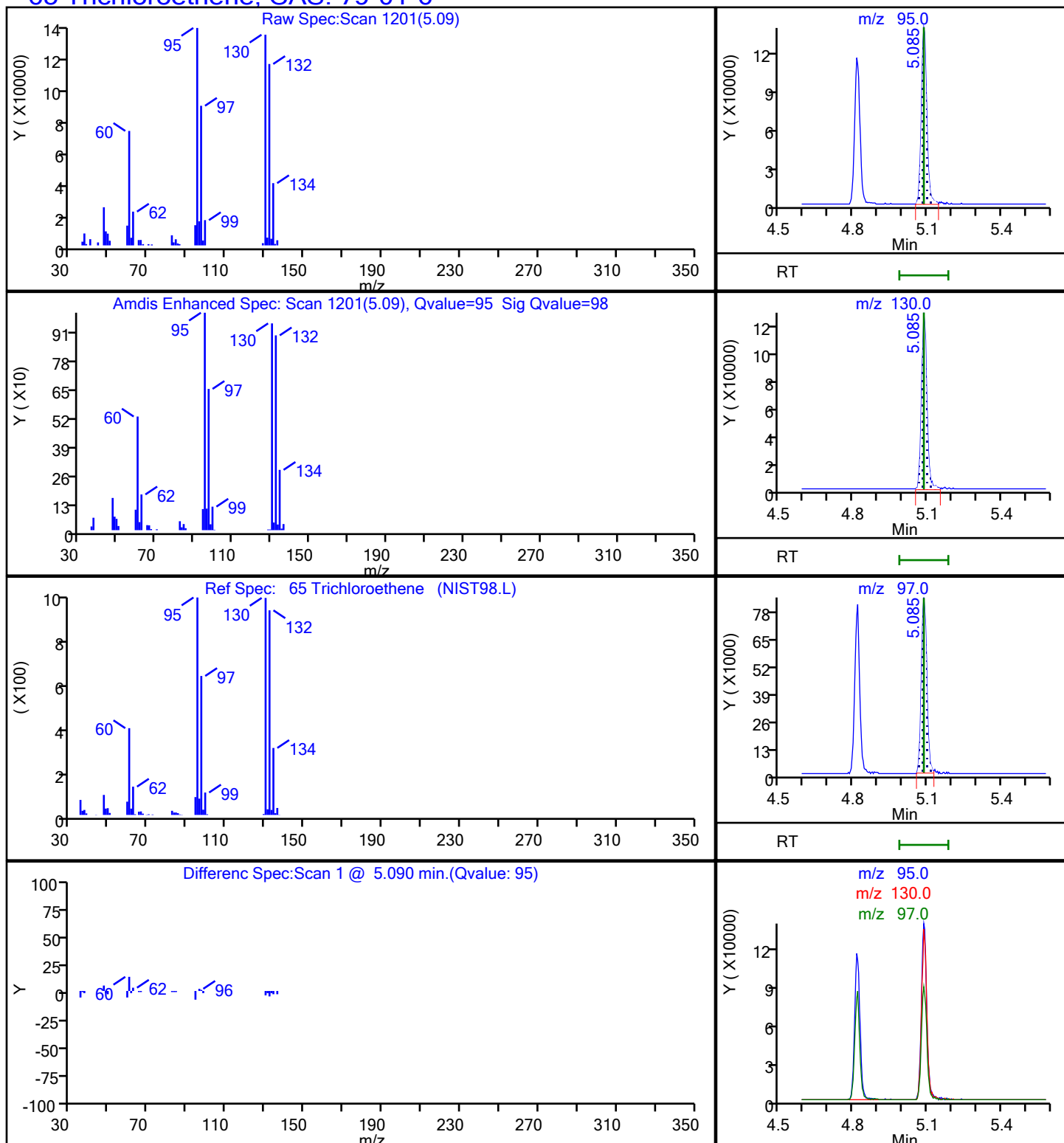
Method: AQ VMSR1 8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector MS SCAN

65 Trichloroethene, CAS: 79-01-6

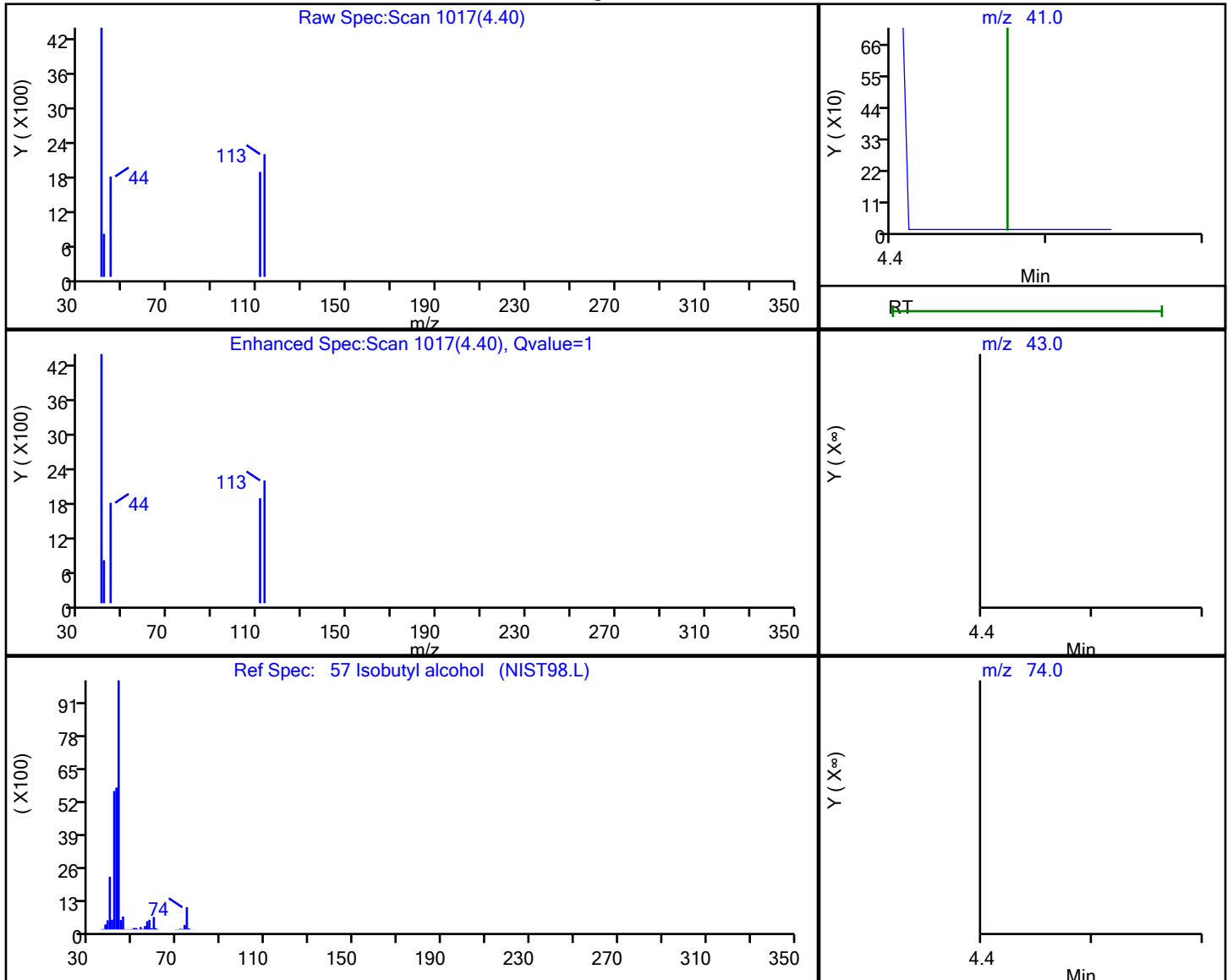


Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6797.D
Injection Date: 03-Aug-2023 20:14:30 Instrument ID: VMS_R1
Lims ID: 280-179475-B-12 Lab Sample ID: 280-179475-12
Client ID: RW-2140H-20230723
Operator ID: sjd ALS Bottle#: 9 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

57 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.40	41.00	446	11.478826
4.47	43.00	0	
4.47	74.00	0	

Reviewer: J6NB, 03-Aug-2023 23:13:39 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-3-20230722</u>	Lab Sample ID: <u>280-179475-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6798.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 20:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND	*1	2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-3-20230722</u>	Lab Sample ID: <u>280-179475-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6798.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 20:35</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND	*1	3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	0.80	J	1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND	*+	15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: PA-3-20230722 Lab Sample ID: 280-179475-13
Matrix: Water Lab File ID: R_6798.D
Analysis Method: 8260D Date Collected: 07/22/2023 12:15
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 20:35
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621775 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	103		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6798.D
 Lims ID: 280-179475-B-13
 Client ID: PA-3-20230722
 Sample Type: Client
 Inject. Date: 03-Aug-2023 20:35:30 ALS Bottle#: 10 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-B-13
 Misc. Info.: 280-0124173-017
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:14:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.815	-0.003	98	1767584	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	89	435729	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	653018	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	480204	51.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.576	4.575	0.001	0	604564	54.5	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1886680	50.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	82	649540	51.4	
\$ 8 BFB	95	8.414	8.414	0.000	82	649540	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.801				ND	
13 Bromomethane	94		2.068				ND	
12 Ethylene oxide	43		2.075				ND	U
14 Chloroethane	64		2.150				ND	
15 Dichlorofluoromethane	67		2.311				ND	
16 Trichlorofluoromethane	101		2.341				ND	
17 Ethanol	45		2.457				ND	
18 Ethyl ether	59		2.547				ND	
19 Propene oxide	58		2.630				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.724				ND	
22 1,1-Dichloroethene	96		2.724				ND	
23 Acetone	43		2.746				ND	7
24 Isopropyl alcohol	45	2.836	2.832	0.004	94	6151	13.6	
25 Iodomethane	142		2.840				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.945				ND	
28 Methyl acetate	43		2.967				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.072				ND	
31 2-Methyl-2-propanol	59		3.125				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.455				ND	
36 Chlorotrifluoroethene	116		3.531				ND	
37 Vinyl acetate	43		3.556				ND	
38 Isopropyl ether	87		3.574				ND	
39 1,1-Dichloroethane	63		3.575				ND	
40 2-Chloro-1,3-butadiene	53		3.627				ND	
41 Tert-butyl ethyl ether	59		3.833				ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		3.951				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.983				ND	
47 Propionitrile	54		3.998				ND	
48 sec-Butyl Alcohol	45		4.066				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.148				ND	
51 Tetrahydrofuran	42		4.156				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.455				ND	
56 Carbon tetrachloride	117		4.459				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	7
61 Tert-amyl methyl ether	73		4.673				ND	
60 1,2-Dichloro-1,1,2-trifluoroethane	117		4.678				ND	
62 1,1,1-Trifluoro-2,2-dichloroethane	83		4.706				ND	
63 n-Heptane	43		4.789				ND	
64 n-Butanol	56		4.969				ND	
65 Trichloroethene	95	5.089	5.085	0.004	88	6699	0.7968	
66 2-Pentanone	43		5.190				ND	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.483				ND	
73 2-Nitropropane	41		5.647				ND	
74 2-Chloroethyl vinyl ether	63		5.685				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.289				ND	
79 Ethyl methacrylate	69		6.319				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 Chlorodibromomethane	129		6.798				ND	
85 Tetrahydrothiophene	60		6.847				ND	
86 Ethylene Dibromide	107		6.915				ND	
87 1-Chlorohexane	91		7.308				ND	U
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.417				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	7
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.915				ND	
94 Bromoform	173		8.095				ND	
95 Isopropylbenzene	105		8.242				ND	
96 cis-1,4-Dichloro-2-butene	53		8.298				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.553				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.119				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
113 1,2,3-Trimethylbenzene	105		9.584				ND	
114 n-Butylbenzene	91		9.891				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.697				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.664				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.013				ND	
135 2,3-Dimethylpentane	1		0.000				ND	
136 2,2-Dimethylpentane	1		0.000				ND	
137 Dimethyl disulfide	1		0.000				ND	
126 cis-1,4-Dichloro-2-butene TIC	1		0.000				ND	
129 Ethyl acrylate	55		0.000				ND	
131 Pentachloroethane TIC	1		0.000				ND	
130 2,2,3-Trimethylbutane	1		0.000				ND	
132 2,4-Dimethylpentane	1		0.000				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
125 Ethylene oxide TIC	1		0.000				ND	
133 3,3-Dimethylpentane	1		0.000				ND	
123 3-Ethylpentane	1		0.000				ND	
128 3-Methylhexane	1		0.000				ND	
127 t-Amyl alcohol	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
122 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
134 2-Methylhexane	1		0.000				ND	
138 Propene oxide TIC	58		5.334				ND	
S 144 TAH	1				0		0	
S 143 1,3-Dichloropropene, Total	1		0.000				ND	7
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7
S 139 Total BTEX	1		0.000				ND	7
T 145 Dichloroacetonitrile TIC	74		1.000				ND	
T 146 Propene TIC	41		1.569				ND	
T 147 1,3-Butadiene TIC	39		1.880				ND	
T 148 4-Ethyltoluene TIC	105		8.845				ND	
T 149 Dicyclopentadiene TIC	66	9.539	9.670	-0.131	38	17068	1.31	
T 151 n-Nonane TIC	1		0.000				ND	
T 150 Cyclohexane TIC	1		0.000				ND	
T 154 1-Chlorohexane TIC	1		0.000				ND	
T 155 Methyl cyclohexane TIC	1		0.000				ND	
T 152 2,3-dichloro-1-propene TIC	75		0.000				ND	
T 153 2-Butoxyethanol TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 23:17:31

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6798.D

Injection Date: 03-Aug-2023 20:35:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-B-13

Lab Sample ID: 280-179475-13

Worklist Smp#: 17

Client ID: PA-3-20230722

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

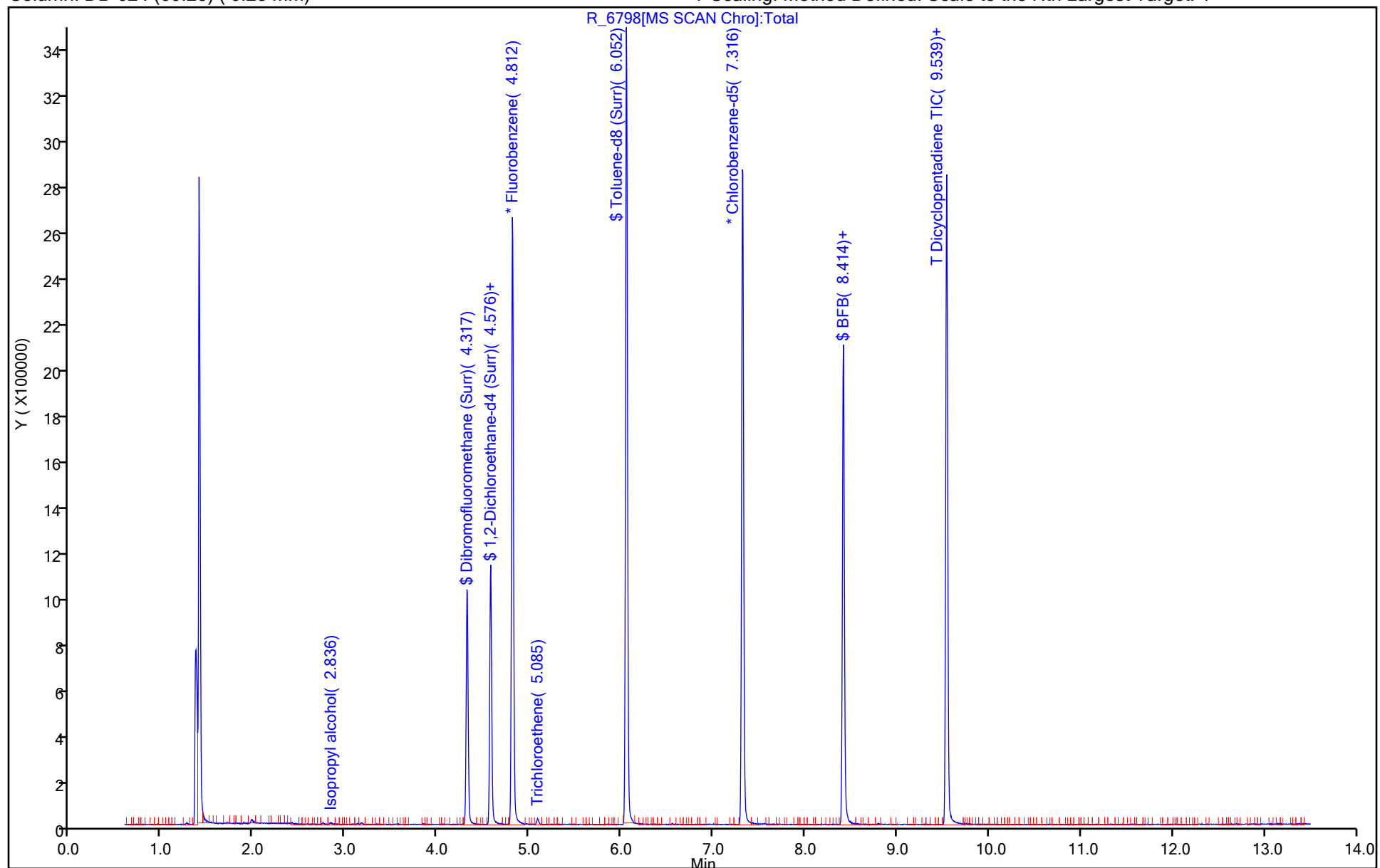
ALS Bottle#: 10

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6798.D
Lims ID: 280-179475-B-13
Client ID: PA-3-20230722
Sample Type: Client
Inject. Date: 03-Aug-2023 20:35:30 ALS Bottle#: 10 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-B-13
Misc. Info.: 280-0124173-017
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:14:22

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	51.7	103.40
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	54.5	108.90
\$ 6 Toluene-d8 (Surr)	50.0	50.3	100.54
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.4	102.74

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6798.D

Injection Date: 03-Aug-2023 20:35:30

Instrument ID: VMS_R1

Lims ID: 280-179475-B-13

Lab Sample ID: 280-179475-13

Client ID: PA-3-20230722

Operator ID: sjd

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 5.000 mL

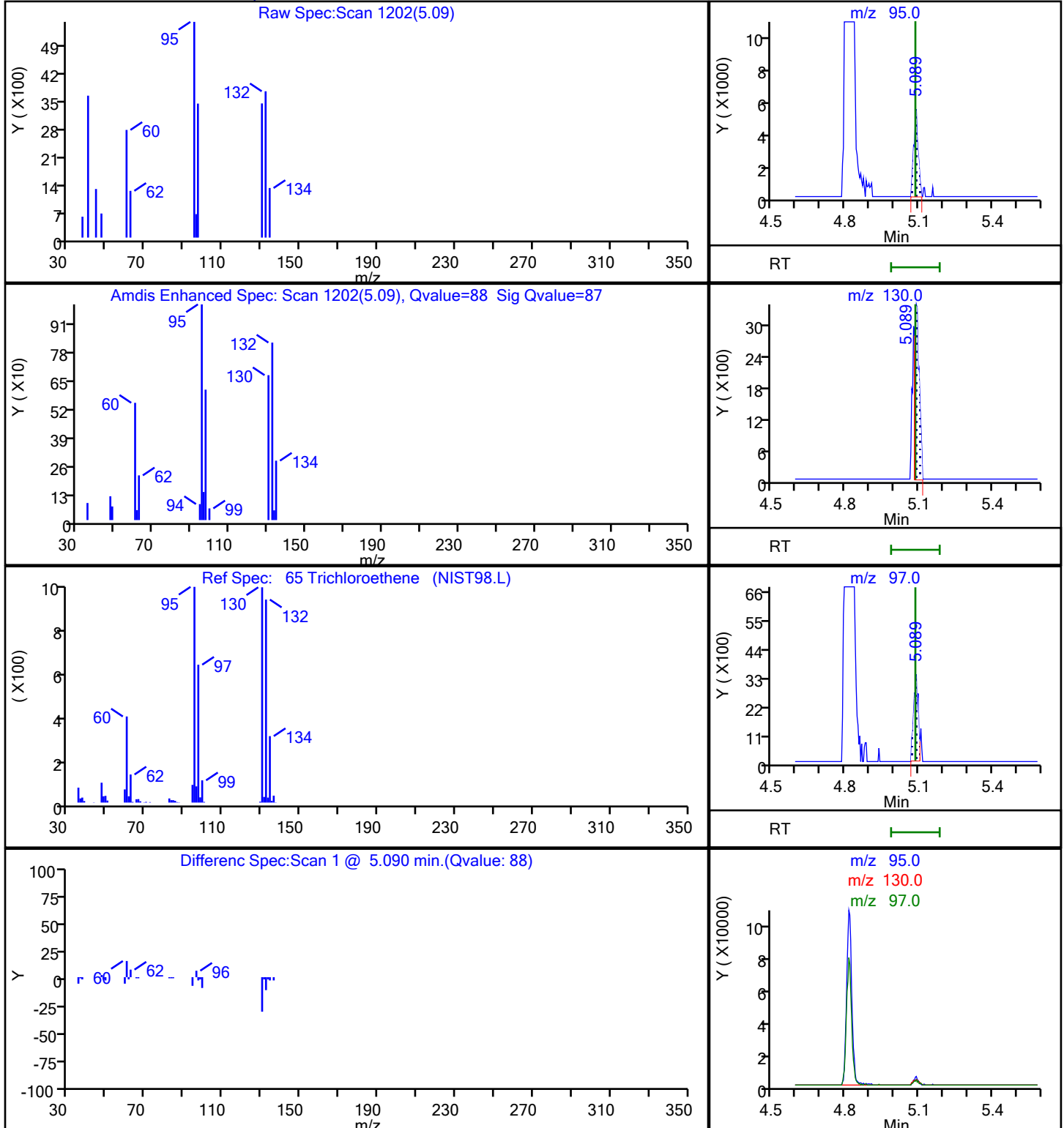
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851
SDG No.: _____
Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-618851/32	MS13_003253.D
Level 2	IC 280-618851/31	MS13_003252.D
Level 3	IC 280-618851/30	MS13_003251.D
Level 4	IC 280-618851/29	MS13_003250.D
Level 5	IC 280-618851/28	MS13_003249.D
Level 6	ICIS 280-618851/27	MS13_003248.D
Level 7	IC 280-618851/26	MS13_003247.D
Level 8	IC 280-618851/25	MS13_003246.D
Level 9	IC 280-618851/24	MS13_003245.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Dichlorodifluoromethane	0.1106 0.1623	0.1208 0.1575	0.1397 0.1676	0.1073 0.1681	0.1435	Lin1	-0.05 4	0.165 1							0.9980		0.9900
Chloromethane	0.2749 0.2551	0.2613 0.2619	0.2500 0.2797	0.1923 0.2681	0.2659	Ave		0.256 6			0.1000	10.1		15.0			
Vinyl chloride	0.2181 0.2275	0.2244 0.2295	0.2130 0.2468	0.1612 0.2356	0.2249	Ave		0.220 1				11.0		30.0			
Bromomethane	0.1305 0.1513	0.1451 0.1536	0.1497 0.1604	0.1140 0.1499	0.1467	Ave		0.144 6				9.7		15.0			
Chloroethane	0.1805 0.1643	0.1651 0.1714	0.1564 0.1776	0.1307 0.1695	0.1690	Ave		0.165 0				8.9		15.0			
Dichlorofluoromethane	0.4069 0.3788	0.3747 0.3835	0.3469 0.4075	0.2777 0.3842	0.3860	Ave		0.371 8				10.6		15.0			
Trichlorofluoromethane	++++ 0.2800	++++ 0.2835	0.2540 0.2996	0.1790 0.2813	0.2622	Lin1	-0.20 1	0.287 1							0.9980		0.9900
Ethyl ether	0.2147 0.2510	0.2445 0.2382	0.2252 0.2590	0.2367 0.2464	0.2387	Ave		0.239 4				5.6		15.0			
Acrolein	0.0363 0.0308	0.0289 0.0290	0.0313 0.0380	0.0281 0.0343	0.0323	Ave		0.032 1				10.8		15.0			
1,1-Dichloroethene	0.1868 0.2042	0.2075 0.1908	0.2024 0.2088	0.1928 0.2142	0.1746	Ave		0.198 0				6.4		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0847 0.1387	0.1309 0.1297	0.1358 0.1393	0.1364 0.1515	0.1157	Ave		0.129 2				14.9		15.0			
Acetone	0.4197 0.1189	0.2308 0.1158	0.1501 0.1259	0.1336 0.1025	0.1174	Lin1	0.539 2	0.110 7							0.9920		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851
SDG No.: _____
Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Iodomethane	0.3418 0.3377	0.3182 0.3221	0.3250 0.3502	0.3303 0.3458	0.3151	Ave		0.331 8				3.8		15.0			
Carbon disulfide	0.8750 0.6787	0.8487 0.6361	0.7425 0.6891	0.6958 0.7069	0.6051	Ave		0.719 7				12.5		15.0			
Methyl acetate	0.3127 0.2988	0.3362 0.2840	0.2684 0.3201	0.2933 0.2667	0.3288	Ave		0.301 0				8.4		15.0			
Allyl chloride	0.4979 0.3871	0.4140 0.3579	0.3537 0.3893	0.3465 0.4114	0.3306	Ave		0.387 6				13.0		15.0			
Methylene Chloride	0.4491 0.2404	0.3401 0.2263	0.2684 0.2490	0.2589 0.2373	0.2327	Lin2	0.106 4	0.232 5							0.9980		0.9900
2-Methyl-2-propanol	0.0330 0.0544	0.0352 0.0564	0.0311 0.0647	0.0372 +++++	0.0559	Lin1	-0.28 3	0.059 6							0.9910		0.9900
Acrylonitrile	0.1937 0.1676	0.1704 0.1602	0.1778 0.1774	0.1743 0.1423	0.1955	Ave		0.173 2				9.4		15.0			
Methyl tert-butyl ether	0.6383 0.6772	0.6691 0.6440	0.6752 0.6934	0.6593 0.6693	0.6532	Ave		0.664 3				2.6		15.0			
trans-1,2-Dichloroethene	0.2156 0.2375	0.2705 0.2232	0.2365 0.2432	0.2360 0.2382	0.2175	Ave		0.235 4				7.0		15.0			
Hexane	1.6663 1.7842	1.7894 1.6357	1.6684 1.8287	1.5606 1.9011	1.4486	Ave		1.698 1				8.4		15.0			
Vinyl acetate	0.5109 0.6537	0.5537 0.6283	0.4961 0.6891	0.5523 0.6274	0.6008	Ave		0.590 3				11.2		15.0			
1,1-Dichloroethane	0.4668 0.4714	0.4943 0.4515	0.4508 0.4820	0.4745 0.4697	0.4229	Ave		0.464 9		0.1000		4.5		15.0			
2-Butanone (MEK)	0.3524 0.2162	0.3006 0.2085	0.2582 0.2349	0.2237 +++++	0.2629	Lin2	0.262 5	0.225 6							0.9930		0.9900
cis-1,2-Dichloroethene	0.3115 0.2673	0.2967 0.2469	0.2673 0.2703	0.2735 0.2613	0.2431	Ave		0.270 9				8.0		15.0			
2,2-Dichloropropane	0.2134 0.2580	0.2289 0.2464	0.2223 0.2579	0.2359 0.2661	0.2236	Ave		0.239 2				7.8		15.0			
sec-Butyl Alcohol	0.0430 0.0463	0.0341 0.0466	0.0384 0.0523	0.0419 0.0400	0.0513	Ave		0.043 8				13.6		15.0			
Chlorobromomethane	0.1176 0.1226	0.1455 0.1154	0.1178 0.1259	0.1198 0.1176	0.1163	Ave		0.122 0				7.7		15.0			
Tetrahydrofuran	0.1536 0.1412	0.1336 0.1368	0.1403 0.1538	0.1439 0.1233	0.1612	Ave		0.143 1				8.1		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851
SDG No.: _____
Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chloroform	0.3990 0.4006	0.4032 0.3767	0.3830 0.4110	0.4008 0.3955	0.3675	Ave		0.393 n				3.6		30.0			
1,1,1-Trichloroethane	0.2751 0.3238	0.2873 0.3032	0.3135 0.3317	0.3167 0.3353	0.2793	Ave		0.307 3				7.3		15.0			
Cyclohexane	0.4782 0.4872	0.4589 0.4474	0.4521 0.4915	0.4821 0.5153	0.4167	Ave		0.469 9				6.2		15.0			
1,1-Dichloropropene	0.2941 0.3254	0.3257 0.3008	0.3195 0.3311	0.3157 0.3308	0.2854	Ave		0.314 3				5.4		15.0			
Carbon tetrachloride	0.2019 0.2678	0.2158 0.2512	0.2362 0.2753	0.2349 0.2800	0.2215	Ave		0.242 7				11.4		15.0			
Isobutyl alcohol	0.0101 0.0173	0.0147 0.0171	0.0147 0.0197	0.0163 0.0150	0.0197	Lin2	-0.09 3	0.017 6							0.9900		0.9900
Benzene	0.9553 0.9681	1.0903 0.9111	0.9399 0.9867	0.9747 0.9436	0.8473	Ave		0.957 5				6.8		15.0			
1,2-Dichloroethane	0.4598 0.3459	0.4174 0.3227	0.3464 0.3542	0.3635 0.3282	0.3295	Ave		0.363 1				12.7		15.0			
n-Heptane	0.4726 0.4119	0.4470 0.3791	0.3858 0.4240	0.3898 0.4288	0.3567	Ave		0.410 6				8.9		15.0			
Trichloroethene	1.1019 0.9983	1.0635 0.9108	1.0719 1.0127	0.9840 1.0118	0.8780	Ave		1.003 7				7.3		15.0			
2-Pentanone	0.4057 0.3492	0.3643 0.3334	0.3405 0.3727	0.3466 0.2874	0.4153	Ave		0.357 2				10.8		15.0			
Methylcyclohexane	0.3763 0.3958	0.4067 0.3548	0.3576 0.3960	0.3803 0.4076	0.3410	Ave		0.379 5				6.4		15.0			
1,2-Dichloropropane	0.2742 0.2888	0.2844 0.2740	0.2786 0.2992	0.2764 0.2779	0.2576	Ave		0.279 n				4.1		30.0			
1,4-Dioxane	++++ 0.0036	0.0020 0.0038	0.0030 0.0043	0.0031 0.0035	0.0047	Lin1	-0.02 5	0.003 8							0.9900		0.9900
Dibromomethane	0.1810 0.1583	0.1996 0.1512	0.1611 0.1635	0.1729 0.1498	0.1525	Ave		0.165 5				9.9		15.0			
Dichlorobromomethane	0.2678 0.2964	0.2705 0.2837	0.2494 0.3098	0.2821 0.2970	0.2617	Ave		0.279 8				6.9		15.0			
2-Chloroethyl vinyl ether	0.1658 0.2109	0.1938 0.2151	0.1651 0.2329	0.1442 ++++	0.2069	Lin1	-0.06 1	0.221 1							0.9960		0.9900
cis-1,3-Dichloropropene	1.2294 1.5233	1.3420 1.4314	1.2952 1.6048	1.3464 1.5333	1.3245	Ave		1.403 4				9.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851
SDG No.: _____
Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
4-Methyl-2-pentanone (MIBK)	0.4244 0.4240	0.4209 0.3943	0.4025 0.4391	0.4192 0.3404	0.4828	Ave		0.416 4				9.1		15.0			
Toluene	1.0718 1.0340	1.1067 0.9668	1.0179 1.0477	1.0351 0.9920	0.9154	Ave		1.020 8				5.6		30.0			
trans-1,3-Dichloropropene	0.3496 0.3731	0.3714 0.3500	0.3211 0.3839	0.3399 0.3650	0.3267	Ave		0.353 4				6.1		15.0			
Ethyl methacrylate	1.2356 1.5435	1.3381 1.4282	1.2275 1.6099	1.3697 1.4019	1.3994	Ave		1.394 9				9.0		15.0			
1,1,2-Trichloroethane	0.2224 0.2264	0.2269 0.2159	0.2086 0.2375	0.2202 0.2149	0.2211	Ave		0.221 6				3.8		15.0			
Tetrachloroethene	0.8032 0.7582	0.7115 0.6991	0.7577 0.7836	0.6662 0.7706	0.6466	Ave		0.733 0				7.4		15.0			
1,3-Dichloropropane	1.6092 1.6180	1.7956 1.5164	1.5018 1.6678	1.5735 1.5196	1.5068	Ave		1.589 9				6.1		15.0			
2-Hexanone	1.3138 1.3229	1.3867 1.2234	1.3428 1.3744	1.3193 1.0267	1.5418	Ave		1.316 9				10.5		15.0			
Chlorodibromomethane	0.6371 0.9161	0.7936 0.8715	0.6553 0.9690	0.7481 0.9292	0.7744	Ave		0.810 5				14.7		15.0			
1,2-Dibromoethane	0.9688 0.9848	1.0186 0.9223	0.9024 1.0139	0.9325 0.9139	0.9023	Ave		0.951 1				4.9		15.0			
1-Chlorohexane	2.1114 1.4176	1.7513 1.3085	1.5292 1.4670	1.4425 1.4073	1.2372	Lin2	0.300 4	1.358 6							0.9960		0.9900
Chlorobenzene	3.0447 2.7513	3.2511 2.5628	2.6344 2.8463	2.6859 2.6244	2.4481	Ave		2.761 0		0.3000		9.1		15.0			
1,1,1,2-Tetrachloroethane	0.7106 0.8814	0.6396 0.8195	0.7271 0.9095	0.7579 0.8419	0.7384	Ave		0.780 7				11.3		15.0			
Ethylbenzene	1.4379 1.5064	1.4442 1.3920	1.3601 1.5472	1.4292 1.4490	1.3013	Ave		1.429 7				5.1		30.0			
m-Xylene & p-Xylene	1.7251 1.8860	1.9684 1.7441	1.7013 1.9092	1.8019 1.7903	1.6263	Ave		1.794 7				6.1		15.0			
o-Xylene	1.7267 1.8248	1.9048 1.7081	1.6462 1.8674	1.7594 1.7092	1.5872	Ave		1.748 2				5.9		15.0			
Styrene	2.8101 3.1187	3.2866 2.9067	2.8145 3.1993	2.8910 2.8994	2.6429	Ave		2.952 1				7.0		15.0			
Bromoform	0.4989 0.5861	0.5348 0.5580	0.4297 0.6135	0.4945 0.5893	0.4757	Ave		0.531 2		0.1000		11.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851
SDG No.: _____
Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Isopropylbenzene	2.5684 2.9647	2.9724 2.7951	2.6718 3.0877	2.8075 2.8080	2.6350	Ave		2.812 3				6.1		15.0			
Cyclohexanone	0.0831 0.1060	0.0882 0.1045	0.0921 0.0856	0.0943 0.0622	0.1187	Qua	-0.61 1	0.119 7	-0.000010						0.9970		0.9900
1,1,2,2-Tetrachloroethane	0.9017 0.9250	0.9642 0.8764	0.7908 0.9757	0.8899 0.8159	0.9391	Ave		0.897 6			0.3000	7.0		15.0			
Bromobenzene	0.8013 0.6885	0.7693 0.6506	0.7091 0.7229	0.6936 0.6417	0.6275	Ave		0.700 5				8.3		15.0			
trans-1,4-Dichloro-2-butene	++++ 0.1868	++++ 0.1690	0.0815 0.1762	0.1095 ++++	0.1365	Lin1	-0.25 2	0.178 6							0.9970		0.9900
1,2,3-Trichloropropane	0.3500 0.2837	0.2837 0.2771	0.2964 0.3063	0.2605 0.2558	0.2892	Ave		0.289 2				9.6		15.0			
N-Propylbenzene	0.8195 0.8153	0.8290 0.7624	0.7600 0.8423	0.7744 0.7689	0.7124	Ave		0.787 1				5.3		15.0			
2-Chlorotoluene	0.6451 0.6850	0.6880 0.6381	0.6187 0.7118	0.6551 0.6314	0.5841	Ave		0.650 8				6.0		15.0			
1,3,5-Trimethylbenzene	2.4218 2.4710	2.3763 2.3125	2.2686 2.5302	2.3160 2.2775	2.1724	Ave		2.349 6				4.7		15.0			
4-Chlorotoluene	0.7563 0.7133	0.7606 0.6658	0.7101 0.7424	0.7080 0.6565	0.6219	Ave		0.703 9				6.7		15.0			
tert-Butylbenzene	2.1463 2.1125	2.1076 1.9782	1.9835 2.1540	2.0684 1.9693	1.8512	Ave		2.041 2				5.0		15.0			
1,2,4-Trimethylbenzene	2.4300 2.4884	2.5807 2.3505	2.3949 2.5936	2.3629 2.2898	2.2524	Ave		2.415 9				4.9		15.0			
sec-Butylbenzene	0.5424 0.6217	0.6129 0.5894	0.5835 0.6494	0.5865 0.5941	0.5758	Ave		0.595 1				5.1		15.0			
1,3-Dichlorobenzene	1.7243 1.3376	1.5817 1.2506	1.4298 1.3893	1.2938 1.2176	1.2389	Ave		1.384 8				12.3		15.0			
4-Isopropyltoluene	2.5912 2.6937	2.4949 2.5090	2.5513 2.7540	2.6012 2.4735	2.3542	Ave		2.558 1				4.7		15.0			
1,4-Dichlorobenzene	1.8793 1.3488	1.6852 1.2749	1.4106 1.3933	1.3795 1.2283	1.2594	Lin2	0.305 5	1.298 2							0.9970		0.9900
n-Butylbenzene	2.6230 2.4972	2.6799 2.3298	2.3508 2.5301	2.3325 2.3049	2.2449	Ave		2.432 6				6.3		15.0			
1,2-Dichlorobenzene	1.3068 1.2777	1.5140 1.1853	1.2717 1.3141	1.2603 1.1292	1.2078	Ave		1.274 1				8.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851
SDG No.: _____
Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	0.1382 0.2135	0.1852 0.2122	0.1917 0.2356	0.1712 0.1875	0.2366	Lin1	-0.02 3	0.206 8							0.9900		0.9900
1,2,4-Trichlorobenzene	1.2099 0.8452	1.0702 0.7918	0.9612 0.8509	0.8390 0.7624	0.8059	Lin2	0.213 3	0.812 9							0.9970		0.9900
Hexachlorobutadiene	0.4561 0.3419	0.4649 0.3145	0.3865 0.3456	0.3414 0.3210	0.3324	Lin2	0.075 3	0.335 0							0.9930		0.9900
Naphthalene	3.8795 3.0268	3.7575 2.8438	3.3963 3.0789	3.0337 2.6285	3.2423	Ave		3.209 7			12.7		15.0				
1,2,3-Trichlorobenzene	1.1357 0.7900	1.1180 0.7463	0.9065 0.8164	0.8953 0.7335	0.8170	Lin2	0.201 9	0.798 0							0.9930		0.9900
Dibromofluoromethane (Surr)	0.2519 0.2464	0.2473 0.2457	0.2465 0.2398	0.2493 0.2436	0.2435	Ave		0.246 0			1.4		15.0				
1,2-Dichloroethane-d4 (Surr)	0.3129 0.3006	0.3071 0.2976	0.3003 0.2962	0.3059 0.3013	0.3023	Ave		0.302 7			1.7		15.0				
Toluene-d8 (Surr)	4.0543 4.1433	4.0967 4.0714	4.0846 4.0762	4.0683 4.1490	4.0186	Ave		4.084 7			1.0		15.0				
4-Bromofluorobenzene (Surr)	0.9479 0.9495	0.9398 0.9562	0.9571 0.9759	0.9462 0.9549	0.9401	Ave		0.952 0			1.2		15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851

SDG No.: _____

Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-618851/32	MS13_003253.D
Level 2	IC 280-618851/31	MS13_003252.D
Level 3	IC 280-618851/30	MS13_003251.D
Level 4	IC 280-618851/29	MS13_003250.D
Level 5	IC 280-618851/28	MS13_003249.D
Level 6	ICIS 280-618851/27	MS13_003248.D
Level 7	IC 280-618851/26	MS13_003247.D
Level 8	IC 280-618851/25	MS13_003246.D
Level 9	IC 280-618851/24	MS13_003245.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Lin1	1627 236175	3509 357793	7902 493706	16374 1121814	44458	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	4045 371151	7589 595166	14140 823858	29328 1789017	82405	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	3210 330953	6515 521507	12048 726773	24596 1571928	69698	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Ave	1920 220100	4214 349095	8468 472449	17394 1000068	45456	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	2656 239090	4795 389488	8844 523173	19943 1130947	52353	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	5989 551064	10880 871545	19617 1200181	42359 2563347	119591	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Lin1	++++ 407321	++++ 644155	14362 882337	27311 1876563	81257	++++ 50.0	++++ 75.0	2.00 100	5.00 200	10.0
Ethyl ether	FB	Ave	3160 365160	7101 541310	12733 762729	36114 1643962	73969	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	5278 442304	8282 651244	17453 1106289	42325 2262582	98974	4.94 494	9.88 741	19.8 988	49.4 1975	98.8
1,1-Dichloroethene	FB	Ave	2749 297076	6027 433544	11447 615037	29409 1428907	54093	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	1247 201852	3802 294760	7679 410242	20800 1010609	35846	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin1	24709 691651	26810 1052563	33957 1483054	81497 2734257	145555	2.00 200	4.00 300	8.00 400	20.0 800	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851

SDG No.: _____

Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Iodomethane	FB	Ave	5030 491226	9240 731857	18377 1031220	50392 2307215	97645	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon disulfide	FB	Ave	12877 987364	24644 1445413	41989 2029354	106134 4716397	187490	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methyl acetate	FB	Ave	9203 869268	19524 1290650	30358 1885274	89480 3559337	203745	1.00 100	2.00 150	4.00 200	10.0 400	20.0
Allyl chloride	FB	Ave	7328 563130	12021 813282	20003 1146588	52860 2744562	102434	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methylene Chloride	FB	Lin2	6609 349698	9875 514252	15179 733258	39491 1583300	72107	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Methyl-2-propanol	FB	Lin1	4856 790931	10219 1280740	17596 1905826	56681 ++++	173303	5.00 500	10.0 750	20.0 1000	50.0 ++++	100
Acrylonitrile	FB	Ave	28506 2437736	49471 3640754	100521 5225621	265813 9491475	605703	5.00 500	10.0 750	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	9394 985243	19429 1463517	38185 2041971	100569 4465659	202388	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	3173 345591	7854 507190	13376 716252	35998 1589169	67399	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexane	CBNZ d5	Ave	6209 641314	12962 918468	23384 1322367	60890 3097025	113766	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	15037 1902117	32159 2855611	56115 4058985	168512 8371301	372318	1.00 100	2.00 150	4.00 200	10.0 400	20.0
1,1-Dichloroethane	FB	Ave	6870 685780	14355 1025958	25494 1419383	72385 3133651	131025	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Lin2	20747 1257951	34917 1894863	58408 2767184	136470 ++++	325872	2.00 200	4.00 300	8.00 400	20.0 ++++	40.0
cis-1,2-Dichloroethene	FB	Ave	4584 388865	8615 561027	15115 796087	41715 1743165	75328	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	3141 375415	6647 559969	12569 759422	35987 1775189	69282	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butyl Alcohol	FB	Ave	15189 1618219	23790 2541373	52067 3695421	153534 6401773	381558	12.0 1200	24.0 1800	48.0 2400	120 4800	240
Chlorobromomethane	FB	Ave	1730 178359	4225 262165	6659 370888	18273 784508	36021	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	4521	7762	15864	43891	99892	1.00	2.00	4.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851

SDG No.: _____

Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
			410896	621735	905649	1645208		100	150	200	400	
Chloroform	FB	Ave	5872 582821	11708 856115	21659 1210503	61145 2638762	113879	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	4048 471139	8342 689071	17730 976952	48303 2236770	86555	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	7038 708858	13325 1016601	25568 1447538	73543 3437724	129113	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	4328 473407	9457 683444	18068 975216	48155 2207325	88421	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	2972 389543	6268 570765	13359 810853	35825 1868331	68646	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isobutyl alcohol	FB	Lin2	3706 630436	10662 970010	20719 1451674	62091 2498972	152825	12.5 1250	25.0 1875	50.0 2500	125 5000	250
Benzene	FB	Ave	14059 1408461	31662 2070477	53155 2905882	148686 6295536	262533	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	6767 503297	12122 733233	19588 1043097	55451 2189491	102096	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Heptane	FB	Ave	6956 599219	12979 861363	21820 1248805	59455 2860696	110511	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichloroethene	CBNZ d5	Ave	4106 358845	7704 511426	15023 732289	38393 1648178	68955	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Pentanone	FB	Ave	19107 1625783	33850 2424727	61613 3511977	169173 6135810	411780	1.60 160	3.20 240	6.40 320	16.0 640	32.0
Methylcyclohexane	FB	Ave	5538 575790	11810 806244	20221 1166147	58005 2719391	105652	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	4036 420117	8259 622747	15757 881137	42157 1854239	79807	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Lin1	++++ 106076	1188 173801	3381 255107	9314 470631	29247	++++ 1000	20.0 1500	40.0 2000	100 4000	200
Dibromomethane	FB	Ave	2664 230241	5796 343499	9113 481556	26379 999460	47246	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorobromomethane	FB	Ave	3941 431230	7854 644741	14104 912265	43030 1981187	81104	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Lin1	2440 306884	5629 488724	9334 685814	21997 ++++	64120	0.500 50.0	1.00 75.0	2.00 100	5.00 ++++	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851

SDG No.: _____

Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
cis-1,3-Dichloropropene	CBNZ d5	Ave	4581	9721	18153	52532	104019	0.500	1.00	2.00	5.00	10.0
			547538	803723	1160507	2497745		50.0	75.0	100	200	
4-Methyl-2-pentanone (MIBK)	FB	Ave	24982	48891	91039	255776	598363	2.00	4.00	8.00	20.0	40.0
			2467546	3584347	5172610	9083593		200	300	400	800	
Toluene	FB	Ave	15774	32138	57563	157900	283649	0.500	1.00	2.00	5.00	10.0
			1504263	2197026	3085459	6618362		50.0	75.0	100	200	
trans-1,3-Dichloropropene	FB	Ave	5145	10785	18159	51848	101222	0.500	1.00	2.00	5.00	10.0
			542863	795338	1130631	2435343		50.0	75.0	100	200	
Ethyl methacrylate	CBNZ d5	Ave	4604	9693	17204	53444	109906	0.500	1.00	2.00	5.00	10.0
			554821	801915	1164171	2283777		50.0	75.0	100	200	
1,1,2-Trichloroethane	FB	Ave	3273	6590	11798	33593	68497	0.500	1.00	2.00	5.00	10.0
			329353	490654	699566	1434072		50.0	75.0	100	200	
Tetrachloroethene	CBNZ d5	Ave	2993	5154	10619	25995	50781	0.500	1.00	2.00	5.00	10.0
			272536	392543	566672	1255263		50.0	75.0	100	200	
1,3-Dichloropropane	CBNZ d5	Ave	5996	13007	21049	61395	118341	0.500	1.00	2.00	5.00	10.0
			581603	851436	1206066	2475476		50.0	75.0	100	200	
2-Hexanone	CBNZ d5	Ave	19582	40182	75280	205910	484359	2.00	4.00	8.00	20.0	40.0
			1902032	2747846	3975650	6689926		200	300	400	800	
Chlorodibromomethane	CBNZ d5	Ave	2374	5749	9184	29191	60821	0.500	1.00	2.00	5.00	10.0
			329297	489334	700705	1513750		50.0	75.0	100	200	
1,2-Dibromoethane	CBNZ d5	Ave	3610	7379	12648	36385	70860	0.500	1.00	2.00	5.00	10.0
			353971	517858	733218	1488816		50.0	75.0	100	200	
1-Chlorohexane	CBNZ d5	Lin2	6294	10149	17146	45027	77734	0.400	0.800	1.60	4.00	8.00
			407649	587791	848678	1834010		40.0	60.0	80.0	160	
Chlorobenzene	CBNZ d5	Ave	11345	23551	36923	104800	192268	0.500	1.00	2.00	5.00	10.0
			988942	1439027	2058302	4275293		50.0	75.0	100	200	

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851

SDG No.: _____

Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	2648	4633	10191	29571	57994	0.500	1.00	2.00	5.00	10.0
			316826	460170	657680	1371493		50.0	75.0	100	200	
Ethylbenzene	CBNZ d5	Ave	5358	10462	19063	55764	102198	0.500	1.00	2.00	5.00	10.0
			541460	781618	1118852	2360464		50.0	75.0	100	200	
m-Xylene & p-Xylene	CBNZ d5	Ave	6428	14259	23845	70308	127721	0.500	1.00	2.00	5.00	10.0
			677928	979325	1380641	2916428		50.0	75.0	100	200	
o-Xylene	CBNZ d5	Ave	6434	13798	23072	68650	124656	0.500	1.00	2.00	5.00	10.0
			655932	959087	1350371	2784285		50.0	75.0	100	200	
Styrene	CBNZ d5	Ave	10471	23808	39446	112801	207563	0.500	1.00	2.00	5.00	10.0
			1121008	1632092	2313547	4723284		50.0	75.0	100	200	
Bromoform	CBNZ d5	Ave	1859	3874	6022	19296	37363	0.500	1.00	2.00	5.00	10.0
			210658	313344	443640	959991		50.0	75.0	100	200	
Isopropylbenzene	DCBd 4	Ave	14962	34884	58282	170503	320433	0.500	1.00	2.00	5.00	10.0
			1682740	2438294	3421424	7159075		50.0	75.0	100	200	
Cyclohexanone	CBNZ d5	Qua	9291	19169	38727	110330	279743	15.0	30.0	60.0	150	300
			1143137	1759904	1856699	3040822		1500	2250	3000	6000	
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	5253	11316	17251	54047	114197	0.500	1.00	2.00	5.00	10.0
			525013	764550	1081154	2080124		50.0	75.0	100	200	
Bromobenzene	DCBd 4	Ave	4668	9028	15468	42122	76313	0.500	1.00	2.00	5.00	10.0
			390800	567536	800999	1635974		50.0	75.0	100	200	
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	+++++	+++++	1778	6648	16594	+++++	+++++	2.00	5.00	10.0
			106022	147436	195247	+++++		50.0	75.0	100	+++++	
1,2,3-Trichloropropane	DCBd 4	Ave	2039	3330	6466	15820	35173	0.500	1.00	2.00	5.00	10.0
			161026	241728	339366	652208		50.0	75.0	100	200	

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851

SDG No.: _____

Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
N-Propylbenzene	DCBd 4	Ave	4774	9729	16579	47030	86632	0.500	1.00	2.00	5.00	10.0
			462747	665079	933319	1960467		50.0	75.0	100	200	
2-Chlorotoluene	DCBd 4	Ave	3758	8074	13496	39787	71036	0.500	1.00	2.00	5.00	10.0
			388807	556610	788690	1609811		50.0	75.0	100	200	
1,3,5-Trimethylbenzene	DCBd 4	Ave	14108	27888	49487	140657	264178	0.500	1.00	2.00	5.00	10.0
			1402490	2017283	2803657	5806707		50.0	75.0	100	200	
4-Chlorotoluene	DCBd 4	Ave	4406	8926	15489	43000	75627	0.500	1.00	2.00	5.00	10.0
			404862	580782	822640	1673799		50.0	75.0	100	200	
tert-Butylbenzene	DCBd 4	Ave	12503	24735	43268	125616	225121	0.500	1.00	2.00	5.00	10.0
			1199049	1725706	2386849	5020878		50.0	75.0	100	200	
1,2,4-Trimethylbenzene	DCBd 4	Ave	14156	30287	52242	143504	273905	0.500	1.00	2.00	5.00	10.0
			1412403	2050505	2873899	5837851		50.0	75.0	100	200	
sec-Butylbenzene	DCBd 4	Ave	3160	7193	12729	35618	70019	0.500	1.00	2.00	5.00	10.0
			352884	514145	719610	1514697		50.0	75.0	100	200	
1,3-Dichlorobenzene	DCBd 4	Ave	10045	18563	31190	78573	150657	0.500	1.00	2.00	5.00	10.0
			759186	1090954	1539463	3104282		50.0	75.0	100	200	
4-Isopropyltoluene	DCBd 4	Ave	15095	29280	55653	157977	286286	0.500	1.00	2.00	5.00	10.0
			1528909	2188742	3051620	6306375		50.0	75.0	100	200	
1,4-Dichlorobenzene	DCBd 4	Lin2	10948	19778	30771	83777	153152	0.500	1.00	2.00	5.00	10.0
			765582	1112124	1543870	3131635		50.0	75.0	100	200	
n-Butylbenzene	DCBd 4	Ave	15280	31452	51281	141659	273003	0.500	1.00	2.00	5.00	10.0
			1417380	2032426	2803529	5876514		50.0	75.0	100	200	
1,2-Dichlorobenzene	DCBd 4	Ave	7613	17769	27740	76541	146876	0.500	1.00	2.00	5.00	10.0
			725211	1034036	1456133	2878895		50.0	75.0	100	200	

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 618851

SDG No.: _____

Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2023 23:31 Calibration End Date: 07/08/2023 02:29 Calibration ID: 82366

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Lin1	805	2173	4182	10400	28773	0.500	1.00	2.00	5.00	10.0
			121184	185151	261117	477962		50.0	75.0	100	200	
1,2,4-Trichlorobenzene	DCBd 4	Lin2	7048	12560	20967	50956	98006	0.500	1.00	2.00	5.00	10.0
			479707	690751	942858	1943786		50.0	75.0	100	200	
Hexachlorobutadiene	DCBd 4	Lin2	2657	5456	8432	20734	40423	0.500	1.00	2.00	5.00	10.0
			194071	274323	382964	818367		50.0	75.0	100	200	
Naphthalene	DCBd 4	Ave	22600	44098	74086	184241	394291	0.500	1.00	2.00	5.00	10.0
			1718007	2480838	3411706	6701614		50.0	75.0	100	200	
1,2,3-Trichlorobenzene	DCBd 4	Lin2	6616	13121	19774	54371	99348	0.500	1.00	2.00	5.00	10.0
			448384	651054	904665	1870053		50.0	75.0	100	200	
Dibromofluoromethane (Surr)	FB	Ave	370748	359022	348561	380347	377237	50.0	50.0	50.0	50.0	50.0
			358434	372182	353112	406277		50.0	50.0	50.0	50.0	
1,2-Dichloroethane-d4 (Surr)	FB	Ave	460557	445928	424628	466639	468288	50.0	50.0	50.0	50.0	50.0
			437276	450858	436112	502491		50.0	50.0	50.0	50.0	
Toluene-d8 (Surr)	CBNZ d5	Ave	1510687	1483823	1431186	1587383	1578038	50.0	50.0	50.0	50.0	50.0
			1489287	1524045	1473835	1689696		50.0	50.0	50.0	50.0	
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	552217	551466	521968	574637	571602	50.0	50.0	50.0	50.0	50.0
			538922	556122	540673	608668		50.0	50.0	50.0	50.0	

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003245.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 07-Jul-2023 23:31:57 ALS Bottle#: 0 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123341-024
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 13-Jul-2023 10:01:52 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: AK2J

Date: 10-Jul-2023 19:57:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.180	0.001	99	1667926	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.719	0.001	86	407257	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.958	0.000	95	637389	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	406277	50.0	49.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	88	502491	50.0	49.8	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1689696	50.0	50.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	86	608668	50.0	50.2	
9 Dichlorodifluoromethane	85	1.719	1.709	0.010	99	1121814	200.0	204.0	
10 Chloromethane	50	1.906	1.895	0.011	99	1789017	200.0	209.0	
11 Vinyl chloride	62	2.010	1.999	0.011	98	1571928	200.0	214.1	
12 Bromomethane	94	2.310	2.310	0.000	90	1000068	200.0	207.3	
13 Chloroethane	64	2.383	2.393	-0.010	99	1130947	200.0	205.5	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	97	2563347	200.0	206.7	
15 Trichlorofluoromethane	101	2.590	2.590	0.000	97	1876563	200.0	196.6	
18 Ethyl ether	59	2.797	2.797	0.000	94	1643962	200.0	205.9	
19 Acrolein	56	2.911	2.911	0.000	100	2262582	1975.0	2111.6	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	96	1428907	200.0	216.3	
21 Acetone	43	3.015	3.015	0.000	99	2734257	800.0	735.8	
22 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.004	3.015	-0.011	94	1010609	200.0	234.5	
24 Iodomethane	142	3.118	3.118	0.000	99	2307215	200.0	208.5	
25 Carbon disulfide	76	3.181	3.180	0.001	99	4716397	200.0	196.4	
27 Methyl acetate	43	3.253	3.243	0.011	99	3559337	400.0	354.5	
28 3-Chloro-1-propene	41	3.274	3.274	0.000	94	2744562	200.0	212.3	
29 Methylene Chloride	84	3.367	3.367	0.000	99	1583300	200.0	203.7	
30 2-Methyl-2-propanol	59	3.419	3.408	0.011	100	3388868	2000.0	1710.5	
31 Acrylonitrile	53	3.533	3.533	0.000	99	9491475	2000.0	1642.5	
32 Methyl tert-butyl ether	73	3.554	3.553	0.001	96	4465659	200.0	201.5	
33 trans-1,2-Dichloroethene	96	3.574	3.564	0.010	96	1589169	200.0	202.4	
34 Hexane	57	3.771	3.771	0.000	88	3097025	200.0	223.9	
35 Vinyl acetate	43	3.875	3.875	0.000	97	8371301	400.0	425.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 1,1-Dichloroethane	63	3.896	3.895	0.001	96	3133651	200.0	202.1	
40 2-Butanone (MEK)	43	4.290	4.289	0.001	100	4933288	800.0	654.2	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	84	1743165	200.0	192.9	
43 2,2-Dichloropropane	77	4.331	4.320	0.011	90	1775189	200.0	222.5	
45 sec-Butyl Alcohol	45	4.404	4.393	0.011	99	6401773	4800.0	4384.2	
47 Chlorobromomethane	128	4.486	4.486	0.000	95	784508	200.0	192.7	
48 Tetrahydrofuran	42	4.497	4.496	0.001	92	1645208	400.0	344.7	
49 Chloroform	83	4.549	4.548	0.001	94	2638762	200.0	201.3	
50 1,1,1-Trichloroethane	97	4.694	4.693	0.001	99	2236770	200.0	218.2	
51 Cyclohexane	56	4.756	4.756	0.000	91	3437724	200.0	219.3	
52 1,1-Dichloropropene	75	4.808	4.807	0.001	98	2207325	200.0	210.5	
53 Carbon tetrachloride	117	4.818	4.818	0.000	97	1868331	200.0	230.7	
54 Isobutyl alcohol	41	4.828	4.818	0.010	96	2498972	5000.0	4250.5	
56 Benzene	78	4.963	4.963	0.000	97	6295536	200.0	197.1	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	96	2189491	200.0	180.8	
59 n-Heptane	43	5.150	5.149	0.001	93	2860696	200.0	208.8	
60 Trichloroethene	95	5.461	5.450	0.011	98	1648178	200.0	201.6	
61 2-Pentanone	43	5.564	5.564	0.000	99	6135810	640.0	514.9	
62 Methylcyclohexane	55	5.657	5.647	0.010	95	2719391	200.0	214.8	
64 1,2-Dichloropropane	63	5.668	5.667	0.001	98	1854239	200.0	199.2	
65 1,4-Dioxane	88	5.709	5.709	0.000	97	470631	4000.0	3708.6	
66 Dibromomethane	93	5.740	5.730	0.010	97	999460	200.0	181.0	
67 Dichlorobromomethane	83	5.865	5.854	0.011	99	1981187	200.0	212.2	
69 2-Chloroethyl vinyl ether	63	6.062	6.061	0.001	90	966029	200.0	131.2	
70 cis-1,3-Dichloropropene	75	6.207	6.206	0.001	96	2497745	200.0	218.5	
71 4-Methyl-2-pentanone (MIBK)	43	6.321	6.310	0.011	94	9083593	800.0	654.0	
72 Toluene	91	6.507	6.497	0.010	99	6618362	200.0	194.4	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	96	2435343	200.0	206.6	
74 Ethyl methacrylate	69	6.704	6.693	0.011	92	2283777	200.0	201.0	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	92	1434072	200.0	194.0	
76 Tetrachloroethene	164	6.953	6.942	0.011	96	1255263	200.0	210.3	
77 1,3-Dichloropropane	76	7.005	7.004	0.001	94	2475476	200.0	191.2	
78 2-Hexanone	43	7.025	7.025	0.000	92	6689926	800.0	623.7	
79 Chlorodibromomethane	129	7.191	7.191	0.000	91	1513750	200.0	229.3	
80 Ethylene Dibromide	107	7.316	7.315	0.001	98	1488816	200.0	192.2	
81 1-Chlorohexane	91	7.709	7.709	0.000	96	1834010	160.0	165.5	
82 Chlorobenzene	112	7.751	7.750	0.001	95	4275293	200.0	190.1	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	96	1371493	200.0	215.7	
84 Ethylbenzene	106	7.823	7.823	0.000	98	2360464	200.0	202.7	
85 m-Xylene & p-Xylene	106	7.948	7.937	0.011	99	2916428	200.0	199.5	
86 o-Xylene	106	8.310	8.310	0.000	96	2784285	200.0	195.5	
87 Styrene	104	8.321	8.320	0.001	94	4723284	200.0	196.4	
88 Bromoform	173	8.507	8.507	0.000	96	959991	200.0	221.9	
89 Isopropylbenzene	105	8.652	8.652	0.000	96	7159075	200.0	199.7	
91 Cyclohexanone	55	8.746	8.745	0.001	91	3040822	6000.0	NQ	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	2080124	200.0	181.8	
93 Bromobenzene	156	8.974	8.973	0.001	96	1635974	200.0	183.2	
94 trans-1,4-Dichloro-2-butene	53	8.974	8.973	0.001	89	706894	200.0	311.9	
95 1,2,3-Trichloropropane	110	9.005	8.994	0.011	87	652208	200.0	176.9	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	1960467	200.0	195.4	
97 2-Chlorotoluene	126	9.150	9.150	0.000	96	1609811	200.0	194.0	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	5806707	200.0	193.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 4-Chlorotoluene	126	9.264	9.264	0.000	98	1673799	200.0	186.5	
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	5020878	200.0	193.0	
102 1,2,4-Trimethylbenzene	105	9.595	9.585	0.010	97	5837851	200.0	189.6	
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	1514697	200.0	199.7	
104 1,3-Dichlorobenzene	146	9.886	9.875	0.011	98	3104282	200.0	175.8	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	97	6306375	200.0	193.4	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	94	3131635	200.0	189.0	
108 n-Butylbenzene	91	10.311	10.300	0.011	97	5876514	200.0	189.5	
109 1,2-Dichlorobenzene	146	10.342	10.341	0.001	97	2878895	200.0	177.2	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	85	477962	200.0	181.4	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	95	1943786	200.0	187.3	
113 Hexachlorobutadiene	225	12.093	12.082	0.011	98	818367	200.0	191.4	
114 Naphthalene	128	12.217	12.217	0.000	97	6701614	200.0	163.8	
115 1,2,3-Trichlorobenzene	180	12.445	12.435	0.010	96	1870053	200.0	183.6	
127 Butadiene	54		0.000				ND	ND	
S 128 Xylenes, Total	106				0		400.0	395.0	
S 129 Trihalomethanes, Total	1				0		800.0	864.7	
S 130 Total BTEX	1				0			989.2	
S 131 1,3-Dichloropropene, Total	1				0		400.0	425.1	
S 133 1,2-Dichloroethene, Total	1				0		400.0	395.3	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

NQ - Not Quantifiable

Reagents:

MV-Gas B_00137

Amount Added: 40.00

Units: uL

MV-MegaMain B_00086

Amount Added: 100.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003245.D

Injection Date: 07-Jul-2023 23:31:57

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#: 0

Worklist Smp#: 24

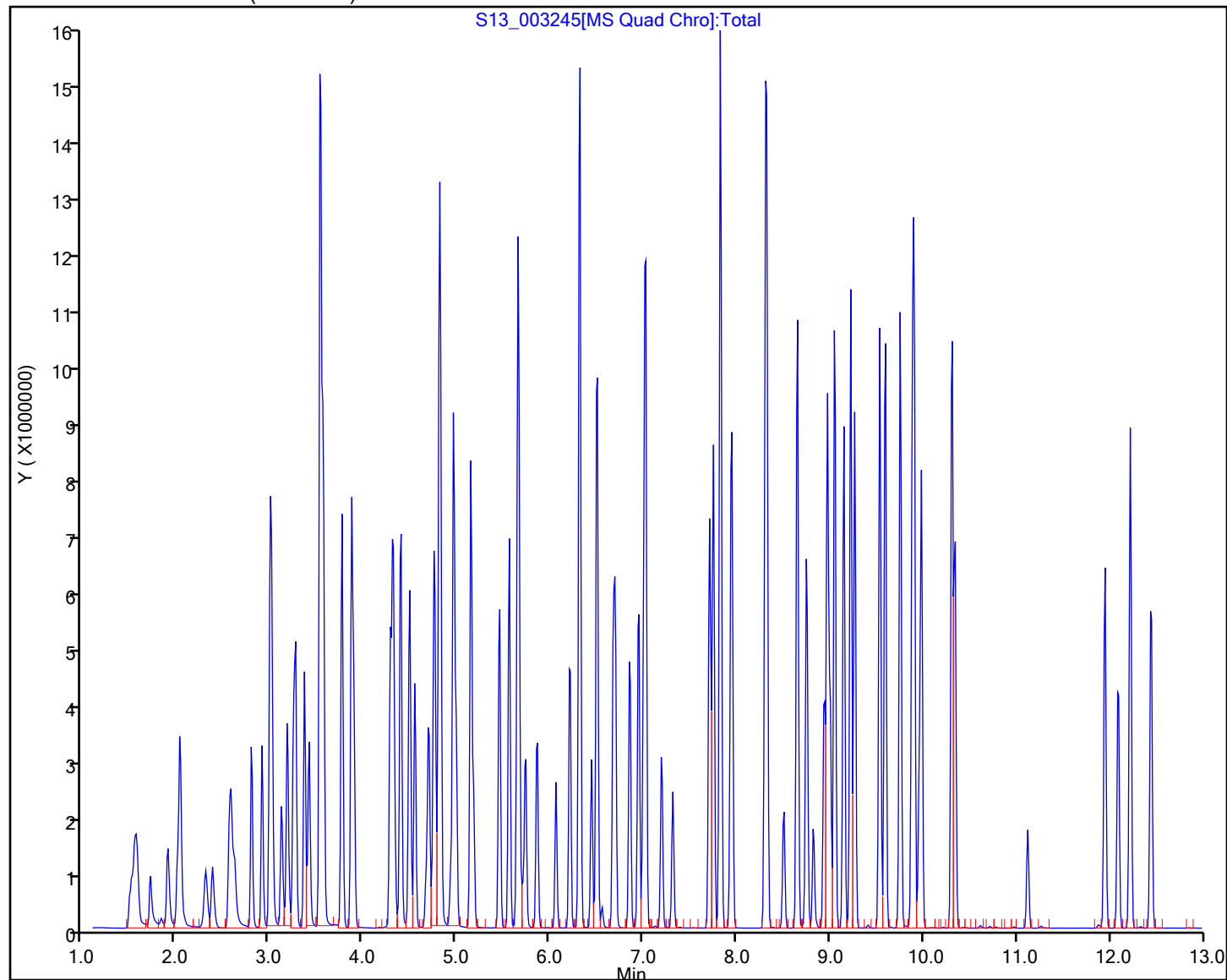
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003246.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 07-Jul-2023 23:54:15 ALS Bottle#: 0 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123341-025
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 13-Jul-2023 10:01:56 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: RWB2

Date: 13-Jul-2023 09:56:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.180	0.001	99	1472531	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.719	0.001	86	361569	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.958	0.000	95	554038	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.663	4.673	-0.010	93	353112	50.0	48.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	88	436112	50.0	48.9	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1473835	50.0	49.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	86	540673	50.0	51.3	
9 Dichlorodifluoromethane	85	1.709	1.709	0.000	99	493706	100.0	101.8	
10 Chloromethane	50	1.896	1.895	0.001	99	823858	100.0	109.0	
11 Vinyl chloride	62	1.999	1.999	0.000	97	726773	100.0	112.1	
12 Bromomethane	94	2.310	2.310	0.000	90	472449	100.0	111.0	
13 Chloroethane	64	2.393	2.393	0.000	100	523173	100.0	107.7	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	97	1200181	100.0	109.6	
15 Trichlorofluoromethane	101	2.580	2.590	-0.010	98	882337	100.0	105.0	
18 Ethyl ether	59	2.797	2.797	0.000	93	762729	100.0	108.2	
19 Acrolein	56	2.911	2.911	0.000	100	1106289	987.5	1169.5	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	95	615037	100.0	105.5	
21 Acetone	43	3.015	3.015	0.000	99	1483054	400.0	450.2	
22 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.015	3.015	0.000	95	410242	100.0	107.8	
24 Iodomethane	142	3.118	3.118	0.000	98	1031220	100.0	105.5	
25 Carbon disulfide	76	3.181	3.180	0.001	99	2029354	100.0	95.7	
27 Methyl acetate	43	3.243	3.243	0.001	98	1885274	200.0	212.7	
28 3-Chloro-1-propene	41	3.264	3.274	-0.010	94	1146588	100.0	100.4	
29 Methylene Chloride	84	3.367	3.367	0.000	99	733258	100.0	106.6	
30 2-Methyl-2-propanol	59	3.409	3.408	0.001	100	1905826	1000.0	1091.3	
31 Acrylonitrile	53	3.533	3.533	0.000	99	5225621	1000.0	1024.3	
32 Methyl tert-butyl ether	73	3.554	3.553	0.001	96	2041971	100.0	104.4	
33 trans-1,2-Dichloroethene	96	3.564	3.564	0.000	96	716252	100.0	103.3	
34 Hexane	57	3.761	3.771	-0.010	88	1322367	100.0	107.7	
35 Vinyl acetate	43	3.865	3.875	-0.010	97	4058985	200.0	233.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 1,1-Dichloroethane	63	3.896	3.895	0.001	96	1419383	100.0	103.7	
40 2-Butanone (MEK)	43	4.290	4.289	0.001	100	2767184	400.0	415.2	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	84	796087	100.0	99.8	
43 2,2-Dichloropropane	77	4.321	4.320	0.001	90	759422	100.0	107.8	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	3695421	2400.0	2866.6	
47 Chlorobromomethane	128	4.486	4.486	0.000	95	370888	100.0	103.2	
48 Tetrahydrofuran	42	4.497	4.496	0.001	92	905649	200.0	214.9	
49 Chloroform	83	4.549	4.548	0.001	94	1210503	100.0	104.6	
50 1,1,1-Trichloroethane	97	4.694	4.693	0.001	99	976952	100.0	107.9	
51 Cyclohexane	56	4.756	4.756	0.000	88	1447538	100.0	104.6	
52 1,1-Dichloropropene	75	4.808	4.807	0.001	97	975216	100.0	105.4	
53 Carbon tetrachloride	117	4.818	4.818	0.000	97	810853	100.0	113.4	
54 Isobutyl alcohol	41	4.818	4.818	0.000	97	1451674	2500.0	2798.6	
56 Benzene	78	4.963	4.963	0.000	97	2905882	100.0	103.1	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	96	1043097	100.0	97.6	
59 n-Heptane	43	5.150	5.149	0.001	92	1248805	100.0	103.3	
60 Trichloroethene	95	5.450	5.450	0.000	98	732289	100.0	100.9	
61 2-Pentanone	43	5.564	5.564	0.000	99	3511977	320.0	333.8	
62 Methylcyclohexane	55	5.647	5.647	0.000	96	1166147	100.0	104.3	
64 1,2-Dichloropropane	63	5.668	5.667	0.001	98	881137	100.0	107.2	
65 1,4-Dioxane	88	5.699	5.709	-0.010	96	255107	2000.0	2279.6	
66 Dibromomethane	93	5.730	5.730	0.000	97	481556	100.0	98.8	
67 Dichlorobromomethane	83	5.854	5.854	0.000	99	912265	100.0	110.7	
69 2-Chloroethyl vinyl ether	63	6.062	6.061	0.001	90	685814	100.0	105.6	
70 cis-1,3-Dichloropropene	75	6.207	6.206	0.001	96	1160507	100.0	114.4	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	95	5172610	400.0	421.8	
72 Toluene	91	6.497	6.497	0.000	99	3085459	100.0	102.6	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	95	1130631	100.0	108.6	
74 Ethyl methacrylate	69	6.694	6.693	0.001	91	1164171	100.0	115.4	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	92	699566	100.0	107.2	
76 Tetrachloroethene	164	6.942	6.942	0.000	96	566672	100.0	106.9	
77 1,3-Dichloropropane	76	7.005	7.004	0.001	96	1206066	100.0	104.9	
78 2-Hexanone	43	7.025	7.025	0.000	94	3975650	400.0	417.5	
79 Chlorodibromomethane	129	7.191	7.191	0.000	90	700705	100.0	119.6	
80 Ethylene Dibromide	107	7.316	7.315	0.001	97	733218	100.0	106.6	
81 1-Chlorohexane	91	7.709	7.709	0.000	97	848678	80.0	86.2	
82 Chlorobenzene	112	7.751	7.750	0.001	95	2058302	100.0	103.1	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	96	657680	100.0	116.5	
84 Ethylbenzene	106	7.823	7.823	0.000	98	1118852	100.0	108.2	
85 m-Xylene & p-Xylene	106	7.937	7.937	0.000	100	1380641	100.0	106.4	
86 o-Xylene	106	8.310	8.310	0.000	96	1350371	100.0	106.8	
87 Styrene	104	8.321	8.320	0.001	95	2313547	100.0	108.4	
88 Bromoform	173	8.507	8.507	0.000	97	443640	100.0	115.5	
89 Isopropylbenzene	105	8.642	8.652	-0.010	96	3421424	100.0	109.8	
91 Cyclohexanone	55	8.746	8.745	0.001	90	1856699	3000.0	2763.0	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	1081154	100.0	108.7	
93 Bromobenzene	156	8.974	8.973	0.001	96	800999	100.0	103.2	
94 trans-1,4-Dichloro-2-butene	53	8.974	8.973	0.001	75	195247	100.0	100.1	
95 1,2,3-Trichloropropane	110	8.994	8.994	0.000	85	339366	100.0	105.9	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	933319	100.0	107.0	
97 2-Chlorotoluene	126	9.150	9.150	0.000	96	788690	100.0	109.4	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	2803657	100.0	107.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 4-Chlorotoluene	126	9.264	9.264	0.000	97	822640	100.0	105.5	
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	2386849	100.0	105.5	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	2873899	100.0	107.4	
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	719610	100.0	109.1	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	1539463	100.0	100.3	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	97	3051620	100.0	107.7	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	95	1543870	100.0	107.1	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	2803529	100.0	104.0	
109 1,2-Dichlorobenzene	146	10.331	10.341	-0.010	98	1456133	100.0	103.1	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	85	261117	100.0	114.1	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	95	942858	100.0	104.4	
113 Hexachlorobutadiene	225	12.083	12.082	0.001	98	382964	100.0	103.0	
114 Naphthalene	128	12.217	12.217	0.000	97	3411706	100.0	95.9	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	96	904665	100.0	102.1	
127 Butadiene	54		0.000				ND	ND	
S 128 Xylenes, Total	106				0		200.0	213.2	
S 129 Trihalomethanes, Total	1				0		400.0	450.3	
S 130 Total BTEX	1				0			527.1	
S 131 1,3-Dichloropropene, Total	1				0		200.0	223.0	
S 133 1,2-Dichloroethene, Total	1				0		200.0	203.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Gas B_00137	Amount Added: 20.00	Units: uL	
MV-MegaMain B_00086	Amount Added: 50.00	Units: uL	
mv-IS_SS_00064	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003246.D

Injection Date: 07-Jul-2023 23:54:15

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

25

Purge Vol: 5.000 mL

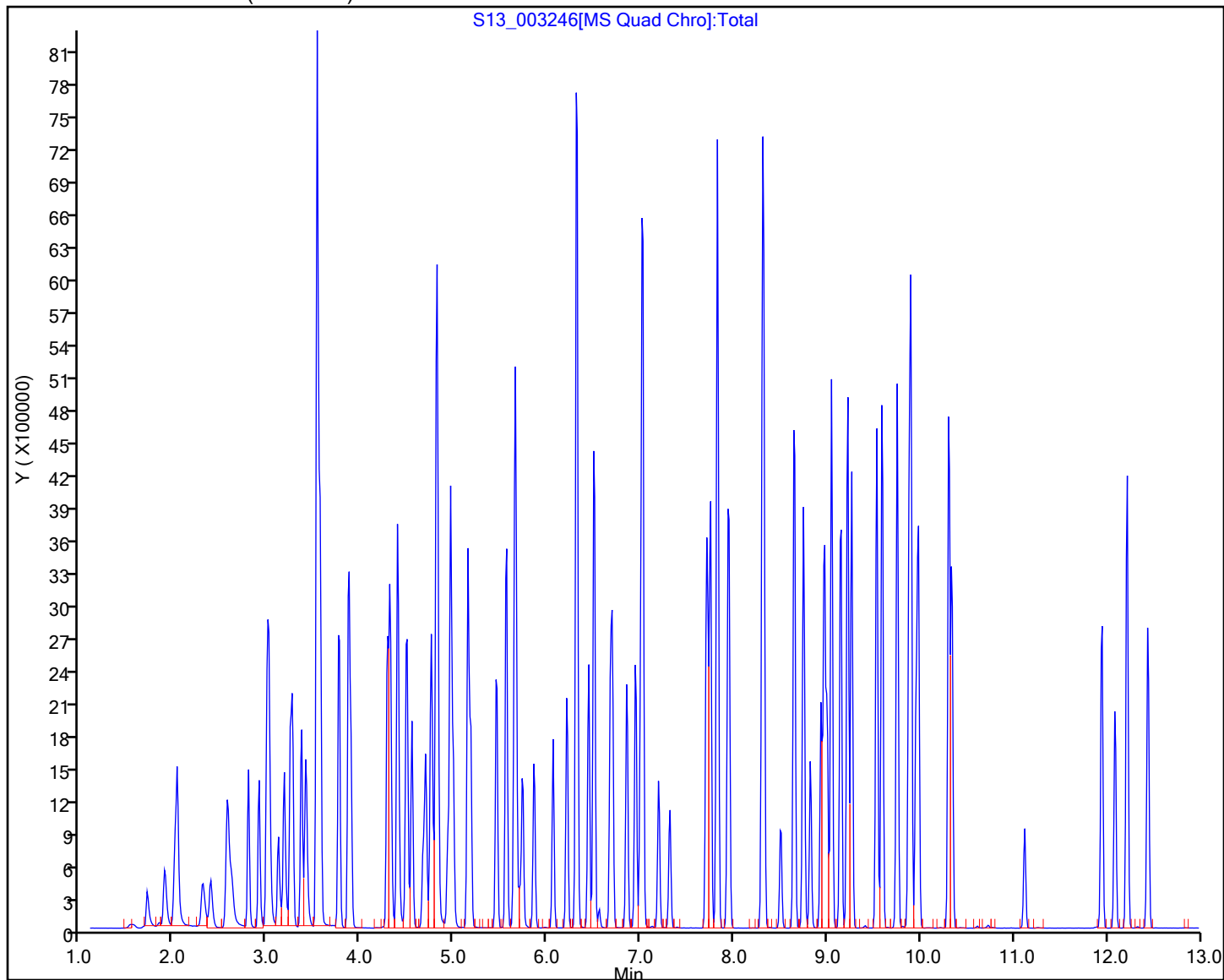
Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003247.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 08-Jul-2023 00:16:19 ALS Bottle#: 0 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123341-026
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 13-Jul-2023 10:01:59 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: RWB2

Date: 13-Jul-2023 09:57:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.180	5.180	0.000	98	1514933	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.719	7.719	0.000	85	374334	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.958	0.000	95	581570	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	372182	50.0	49.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	88	450858	50.0	49.2	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1524045	50.0	49.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	86	556122	50.0	50.2	
9 Dichlorodifluoromethane	85	1.719	1.709	0.010	99	357793	75.0	71.8	
10 Chloromethane	50	1.906	1.895	0.011	99	595166	75.0	76.6	
11 Vinyl chloride	62	2.009	1.999	0.010	98	521507	75.0	78.2	
12 Bromomethane	94	2.310	2.310	0.000	90	349095	75.0	79.7	
13 Chloroethane	64	2.393	2.393	0.000	100	389488	75.0	77.9	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	98	871545	75.0	77.4	
15 Trichlorofluoromethane	101	2.590	2.590	0.000	99	644155	75.0	74.7	
18 Ethyl ether	59	2.797	2.797	0.000	93	541310	75.0	74.6	
19 Acrolein	56	2.911	2.911	0.000	100	651244	740.6	669.2	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	95	433544	75.0	72.3	
21 Acetone	43	3.014	3.015	-0.001	99	1052563	300.0	309.1	
22 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.014	3.015	-0.001	95	294760	75.0	75.3	
24 Iodomethane	142	3.118	3.118	0.000	99	731857	75.0	72.8	
25 Carbon disulfide	76	3.180	3.180	0.000	99	1445413	75.0	66.3	
27 Methyl acetate	43	3.253	3.243	0.011	99	1290650	150.0	141.5	
28 3-Chloro-1-propene	41	3.274	3.274	0.000	93	813282	75.0	69.3	
29 Methylene Chloride	84	3.367	3.367	0.000	99	514252	75.0	72.5	
30 2-Methyl-2-propanol	59	3.419	3.408	0.011	100	1280740	750.0	714.5	
31 Acrylonitrile	53	3.533	3.533	0.000	99	3640754	750.0	693.7	
32 Methyl tert-butyl ether	73	3.553	3.553	0.000	96	1463517	75.0	72.7	
33 trans-1,2-Dichloroethene	96	3.574	3.564	0.010	96	507190	75.0	71.1	
34 Hexane	57	3.771	3.771	0.000	88	918468	75.0	72.2	
35 Vinyl acetate	43	3.875	3.875	0.000	97	2855611	150.0	159.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 1,1-Dichloroethane	63	3.895	3.895	0.000	96	1025958	75.0	72.8	
40 2-Butanone (MEK)	43	4.289	4.289	0.000	100	1894863	300.0	276.0	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	83	561027	75.0	68.4	
43 2,2-Dichloropropane	77	4.320	4.320	0.000	87	559969	75.0	77.3	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	2541373	1800.0	1916.2	
47 Chlorobromomethane	128	4.486	4.486	0.000	95	262165	75.0	70.9	
48 Tetrahydrofuran	42	4.496	4.496	0.000	92	621735	150.0	143.4	
49 Chloroform	83	4.548	4.548	0.000	94	856115	75.0	71.9	
50 1,1,1-Trichloroethane	97	4.693	4.693	0.000	99	689071	75.0	74.0	
51 Cyclohexane	56	4.755	4.756	-0.001	91	1016601	75.0	71.4	
52 1,1-Dichloropropene	75	4.807	4.807	0.000	97	683444	75.0	71.8	
53 Carbon tetrachloride	117	4.818	4.818	0.000	96	570765	75.0	77.6	
54 Isobutyl alcohol	41	4.828	4.818	0.010	97	970010	1875.0	1819.5	
56 Benzene	78	4.963	4.963	0.000	97	2070477	75.0	71.4	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	97	733233	75.0	66.7	
59 n-Heptane	43	5.149	5.149	0.000	92	861363	75.0	69.2	
60 Trichloroethene	95	5.460	5.450	0.010	98	511426	75.0	68.1	
61 2-Pentanone	43	5.564	5.564	0.000	99	2424727	240.0	224.0	
62 Methylcyclohexane	55	5.647	5.647	0.000	96	806244	75.0	70.1	
64 1,2-Dichloropropane	63	5.667	5.667	0.000	98	622747	75.0	73.7	
65 1,4-Dioxane	88	5.709	5.709	0.000	98	173801	1500.0	1511.9	
66 Dibromomethane	93	5.730	5.730	0.000	96	343499	75.0	68.5	
67 Dichlorobromomethane	83	5.854	5.854	0.000	99	644741	75.0	76.0	
69 2-Chloroethyl vinyl ether	63	6.061	6.061	0.000	90	488724	75.0	73.2	
70 cis-1,3-Dichloropropene	75	6.206	6.206	0.000	96	803723	75.0	76.5	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	95	3584347	300.0	284.1	
72 Toluene	91	6.496	6.497	-0.001	99	2197026	75.0	71.0	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	95	795338	75.0	74.3	
74 Ethyl methacrylate	69	6.693	6.693	0.000	92	801915	75.0	76.8	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	92	490654	75.0	73.1	
76 Tetrachloroethene	164	6.952	6.942	0.010	96	392543	75.0	71.5	
77 1,3-Dichloropropane	76	7.004	7.004	0.000	97	851436	75.0	71.5	
78 2-Hexanone	43	7.025	7.025	0.000	94	2747846	300.0	278.7	
79 Chlorodibromomethane	129	7.191	7.191	0.000	91	489334	75.0	80.6	
80 Ethylene Dibromide	107	7.315	7.315	0.000	98	517858	75.0	72.7	
81 1-Chlorohexane	91	7.709	7.709	0.000	96	587791	60.0	57.6	
82 Chlorobenzene	112	7.750	7.750	0.000	95	1439027	75.0	69.6	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	96	460170	75.0	78.7	
84 Ethylbenzene	106	7.823	7.823	0.000	98	781618	75.0	73.0	
85 m-Xylene & p-Xylene	106	7.947	7.937	0.010	99	979325	75.0	72.9	
86 o-Xylene	106	8.310	8.310	0.000	96	959087	75.0	73.3	
87 Styrene	104	8.320	8.320	0.000	95	1632092	75.0	73.8	
88 Bromoform	173	8.507	8.507	0.000	96	313344	75.0	78.8	
89 Isopropylbenzene	105	8.652	8.652	0.000	95	2438294	75.0	74.5	
91 Cyclohexanone	55	8.745	8.745	0.000	90	1759904	2250.0	2451.5	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	764550	75.0	73.2	
93 Bromobenzene	156	8.973	8.973	0.000	95	567536	75.0	69.7	
94 trans-1,4-Dichloro-2-butene	53	8.973	8.973	0.000	76	147436	75.0	72.4	
95 1,2,3-Trichloropropane	110	8.994	8.994	0.000	86	241728	75.0	71.9	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	665079	75.0	72.6	
97 2-Chlorotoluene	126	9.149	9.150	-0.001	97	556610	75.0	73.5	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	2017283	75.0	73.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 4-Chlorotoluene	126	9.263	9.264	-0.001	97	580782	75.0	70.9	
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	1725706	75.0	72.7	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	2050505	75.0	73.0	
103 sec-Butylbenzene	134	9.750	9.751	-0.001	94	514145	75.0	74.3	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	1090954	75.0	67.7	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	97	2188742	75.0	73.6	
106 1,4-Dichlorobenzene	146	9.978	9.979	-0.001	95	1112124	75.0	73.4	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	2032426	75.0	71.8	
109 1,2-Dichlorobenzene	146	10.341	10.341	0.000	98	1034036	75.0	69.8	
110 1,2-Dibromo-3-Chloropropane	157	11.118	11.119	-0.001	86	185151	75.0	77.1	
112 1,2,4-Trichlorobenzene	180	11.947	11.948	-0.001	94	690751	75.0	72.8	
113 Hexachlorobutadiene	225	12.082	12.082	0.000	98	274323	75.0	70.2	
114 Naphthalene	128	12.217	12.217	0.000	97	2480838	75.0	66.5	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	96	651054	75.0	69.9	
127 Butadiene	54		0.000				ND	ND	
S 128 Xylenes, Total	106				0		150.0	146.2	
S 129 Trihalomethanes, Total	1				0		300.0	307.4	
S 130 Total BTEX	1				0			361.6	
S 131 1,3-Dichloropropene, Total	1				0		150.0	150.8	
S 133 1,2-Dichloroethene, Total	1				0		150.0	139.5	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-MegaMain B_00086

Amount Added: 37.50

Units: uL

MV-Gas B_00137

Amount Added: 15.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003247.D

Injection Date: 08-Jul-2023 00:16:19

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#: 0

Worklist Smp#: 26

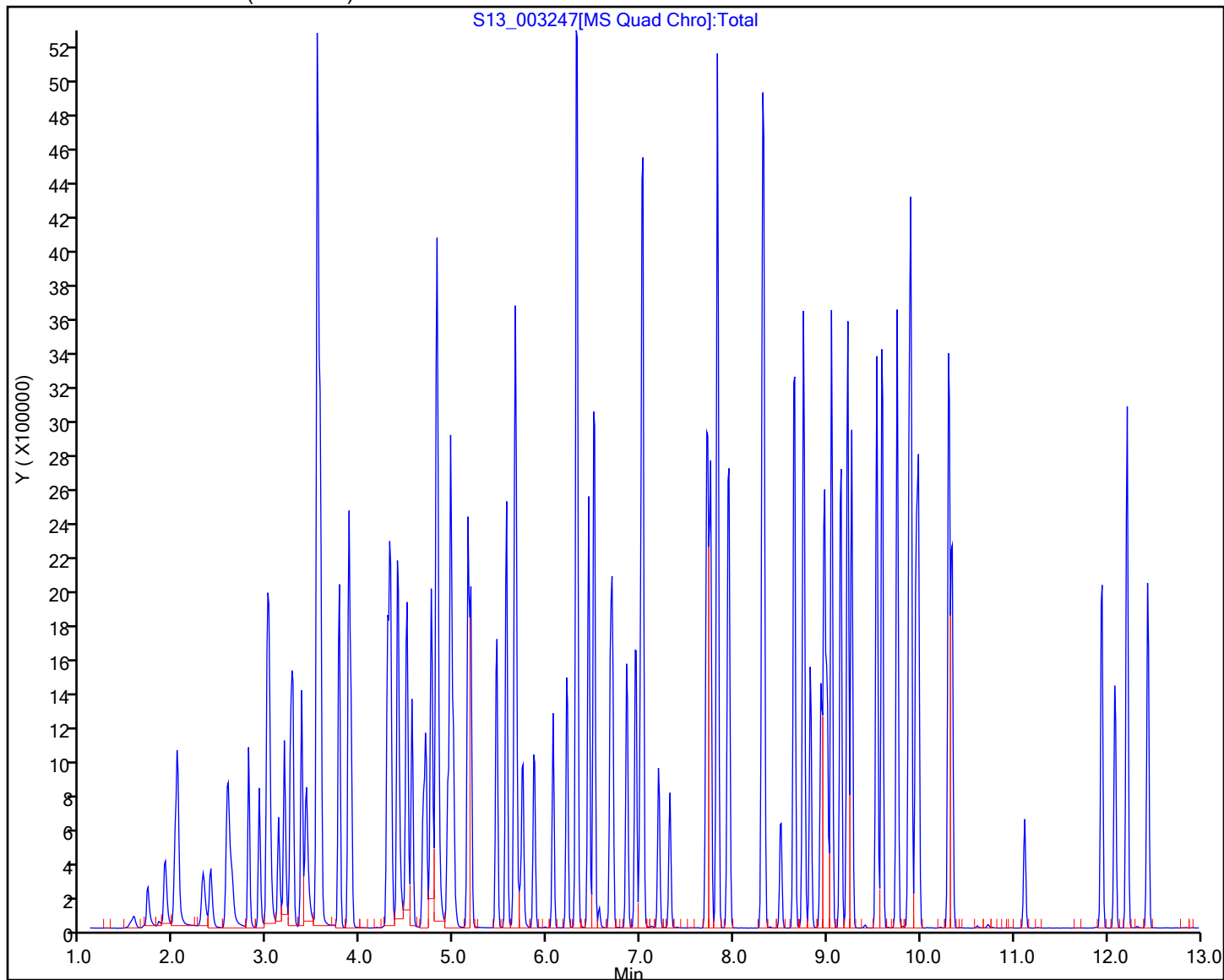
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003248.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 08-Jul-2023 00:38:26 ALS Bottle#: 0 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123341-027
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 11-Jul-2023 00:19:57 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: AK2J

Date: 11-Jul-2023 00:19:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	98	1454826	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	86	359447	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	95	567591	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.662	4.662	0.000	93	358434	50.0	50.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	95	437276	50.0	49.6	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1489287	50.0	50.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	538922	50.0	49.9	
9 Dichlorodifluoromethane	85	1.709	1.709	0.000	99	236175	50.0	49.5	
10 Chloromethane	50	1.895	1.895	0.000	99	371151	50.0	49.7	
11 Vinyl chloride	62	1.999	1.999	0.000	97	330953	50.0	51.7	
12 Bromomethane	94	2.310	2.310	0.000	91	220100	50.0	52.3	
13 Chloroethane	64	2.393	2.393	0.000	99	239090	50.0	49.8	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	97	551064	50.0	50.9	
15 Trichlorofluoromethane	101	2.579	2.579	0.000	99	407321	50.0	49.5	
18 Ethyl ether	59	2.797	2.797	0.000	94	365160	50.0	52.4	
19 Acrolein	56	2.911	2.911	0.000	100	442304	493.8	473.3	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	95	297076	50.0	51.6	
21 Acetone	43	3.015	3.015	0.000	99	691651	200.0	209.9	
22 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.015	3.015	0.000	95	201852	50.0	53.7	
24 Iodomethane	142	3.118	3.118	0.000	99	491226	50.0	50.9	
25 Carbon disulfide	76	3.181	3.181	0.000	99	987364	50.0	47.1	
27 Methyl acetate	43	3.243	3.243	0.000	98	869268	100.0	99.3	
28 3-Chloro-1-propene	41	3.263	3.263	0.000	94	563130	50.0	49.9	
29 Methylene Chloride	84	3.367	3.367	0.000	99	349698	50.0	51.2	
30 2-Methyl-2-propanol	59	3.419	3.419	0.000	100	790931	500.0	461.2	
31 Acrylonitrile	53	3.533	3.533	0.000	99	2437736	500.0	483.7	
32 Methyl tert-butyl ether	73	3.554	3.554	0.000	96	985243	50.0	51.0	
33 trans-1,2-Dichloroethene	96	3.564	3.564	0.000	96	345591	50.0	50.5	
34 Hexane	57	3.771	3.771	0.000	88	641314	50.0	52.5	
35 Vinyl acetate	43	3.875	3.875	0.000	97	1902117	100.0	110.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 1,1-Dichloroethane	63	3.896	3.896	0.000	96	685780	50.0	50.7	
40 2-Butanone (MEK)	43	4.289	4.289	0.000	100	1257951	200.0	190.4	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	83	388865	50.0	49.3	
43 2,2-Dichloropropane	77	4.320	4.320	0.000	88	375415	50.0	53.9	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	1618219	1200.0	1270.5	
47 Chlorobromomethane	128	4.486	4.486	0.000	95	178359	50.0	50.2	
48 Tetrahydrofuran	42	4.497	4.497	0.000	91	410896	100.0	98.7	
49 Chloroform	83	4.548	4.548	0.000	94	582821	50.0	51.0	
50 1,1,1-Trichloroethane	97	4.694	4.694	0.000	98	471139	50.0	52.7	
51 Cyclohexane	56	4.756	4.756	0.000	89	708858	50.0	51.8	
52 1,1-Dichloropropene	75	4.808	4.808	0.000	97	473407	50.0	51.8	
53 Carbon tetrachloride	117	4.818	4.818	0.000	96	389543	50.0	55.2	
54 Isobutyl alcohol	41	4.818	4.818	0.000	97	630436	1250.0	1233.1	
56 Benzene	78	4.963	4.963	0.000	97	1408461	50.0	50.6	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	97	503297	50.0	47.6	
59 n-Heptane	43	5.150	5.150	0.000	92	599219	50.0	50.2	
60 Trichloroethene	95	5.450	5.450	0.000	98	358845	50.0	49.7	
61 2-Pentanone	43	5.564	5.564	0.000	99	1625783	160.0	156.4	
62 Methylcyclohexane	55	5.647	5.647	0.000	96	575790	50.0	52.1	
64 1,2-Dichloropropane	63	5.668	5.668	0.000	98	420117	50.0	51.7	
65 1,4-Dioxane	88	5.699	5.699	0.000	96	106076	1000.0	963.3	
66 Dibromomethane	93	5.730	5.730	0.000	96	230241	50.0	47.8	
67 Dichlorobromomethane	83	5.854	5.854	0.000	99	431230	50.0	53.0	
69 2-Chloroethyl vinyl ether	63	6.061	6.061	0.000	90	306884	50.0	48.0	
70 cis-1,3-Dichloropropene	75	6.207	6.207	0.000	96	547538	50.0	54.3	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	95	2467546	200.0	203.7	
72 Toluene	91	6.497	6.497	0.000	99	1504263	50.0	50.6	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	95	542863	50.0	52.8	
74 Ethyl methacrylate	69	6.694	6.694	0.000	91	554821	50.0	55.3	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	92	329353	50.0	51.1	
76 Tetrachloroethene	164	6.942	6.942	0.000	97	272536	50.0	51.7	
77 1,3-Dichloropropane	76	7.005	7.005	0.000	96	581603	50.0	50.9	
78 2-Hexanone	43	7.025	7.025	0.000	95	1902032	200.0	200.9	
79 Chlorodibromomethane	129	7.191	7.191	0.000	91	329297	50.0	56.5	
80 Ethylene Dibromide	107	7.315	7.315	0.000	99	353971	50.0	51.8	
81 1-Chlorohexane	91	7.709	7.709	0.000	97	407649	40.0	41.5	
82 Chlorobenzene	112	7.751	7.751	0.000	95	988942	50.0	49.8	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	94	316826	50.0	56.5	
84 Ethylbenzene	106	7.823	7.823	0.000	98	541460	50.0	52.7	
85 m-Xylene & p-Xylene	106	7.948	7.948	0.000	99	677928	50.0	52.5	
86 o-Xylene	106	8.310	8.310	0.000	96	655932	50.0	52.2	
87 Styrene	104	8.321	8.321	0.000	95	1121008	50.0	52.8	
88 Bromoform	173	8.507	8.507	0.000	97	210658	50.0	55.2	
89 Isopropylbenzene	105	8.652	8.652	0.000	96	1682740	50.0	52.7	
91 Cyclohexanone	55	8.746	8.746	0.000	90	1143137	1500.0	1518.8	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	525013	50.0	51.5	
93 Bromobenzene	156	8.974	8.974	0.000	96	390800	50.0	49.1	
94 trans-1,4-Dichloro-2-butene	53	8.974	8.974	0.000	78	106022	50.0	53.7	
95 1,2,3-Trichloropropane	110	9.005	9.005	0.000	84	161026	50.0	49.0	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	462747	50.0	51.8	
97 2-Chlorotoluene	126	9.150	9.150	0.000	97	388807	50.0	52.6	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	1402490	50.0	52.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 4-Chlorotoluene	126	9.264	9.264	0.000	97	404862	50.0	50.7	
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	1199049	50.0	51.7	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	1412403	50.0	51.5	
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	352884	50.0	52.2	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	759186	50.0	48.3	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	98	1528909	50.0	52.6	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	94	765582	50.0	51.7	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	1417380	50.0	51.3	
109 1,2-Dichlorobenzene	146	10.341	10.341	0.000	97	725211	50.0	50.1	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	85	121184	50.0	51.7	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	94	479707	50.0	51.7	
113 Hexachlorobutadiene	225	12.082	12.082	0.000	98	194071	50.0	50.8	
114 Naphthalene	128	12.217	12.217	0.000	97	1718007	50.0	47.2	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	96	448384	50.0	49.2	
127 Butadiene	54		0.000				ND	ND	
S 128 Xylenes, Total	106				0		100.0	104.7	
S 129 Trihalomethanes, Total	1				0		200.0	215.6	
S 131 1,3-Dichloropropene, Total	1				0		100.0	107.1	
S 133 1,2-Dichloroethene, Total	1				0		100.0	99.8	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-MegaMain B_00086

Amount Added: 25.00

Units: uL

MV-Gas B_00137

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003248.D

Injection Date: 08-Jul-2023 00:38:26

Instrument ID: VMS_MS13

Lims ID: ICIS

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

27

Purge Vol: 5.000 mL

Dil. Factor:

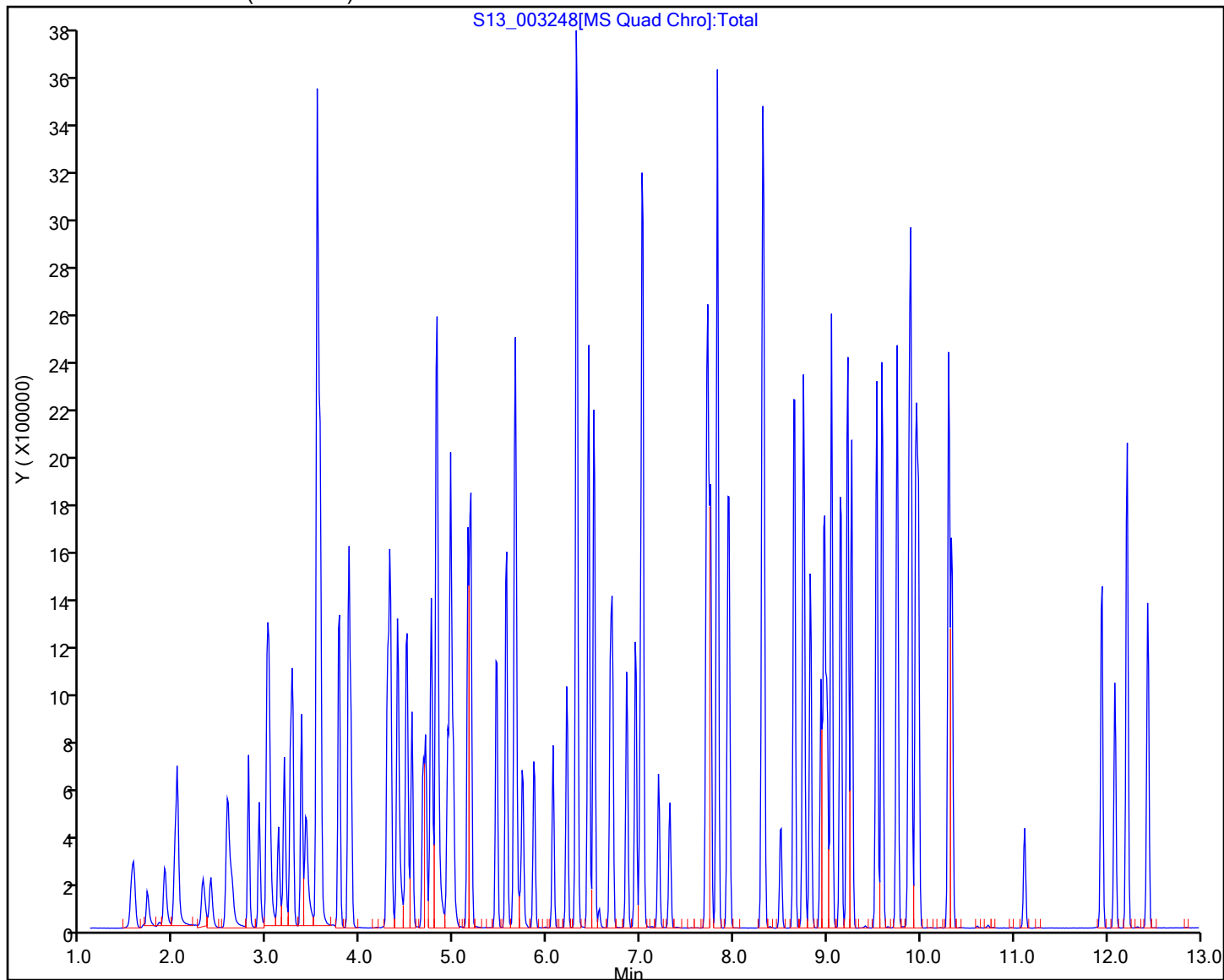
1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003249.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 08-Jul-2023 01:00:45 ALS Bottle#: 0 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123341-028
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 13-Jul-2023 09:58:57 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: RWB2

Date: 13-Jul-2023 09:58:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1549276	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	86	392682	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.958	0.000	96	608040	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.663	4.663	0.000	93	377237	50.0	49.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	97	468288	50.0	49.9	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1578038	50.0	49.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	571602	50.0	49.4	
9 Dichlorodifluoromethane	85	1.709	1.709	0.000	98	44458	10.0	9.02	
10 Chloromethane	50	1.896	1.896	0.000	99	82405	10.0	10.4	
11 Vinyl chloride	62	1.999	1.999	0.000	97	69698	10.0	10.2	
12 Bromomethane	94	2.300	2.300	0.000	91	45456	10.0	10.1	
13 Chloroethane	64	2.393	2.393	0.000	100	52353	10.0	10.2	
14 Dichlorofluoromethane	67	2.559	2.559	0.000	97	119591	10.0	10.4	
15 Trichlorofluoromethane	101	2.580	2.580	0.000	98	81257	10.0	9.83	
18 Ethyl ether	59	2.797	2.797	0.000	94	73969	10.0	9.97	
19 Acrolein	56	2.911	2.911	0.000	100	98974	98.8	99.4	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	96	54093	10.0	8.82	
21 Acetone	43	3.015	3.015	0.000	100	145555	40.0	37.6	
22 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.004	3.004	0.000	84	35846	10.0	8.95	
24 Iodomethane	142	3.118	3.118	0.000	99	97645	10.0	9.50	
25 Carbon disulfide	76	3.181	3.181	0.000	99	187490	10.0	8.41	
27 Methyl acetate	43	3.243	3.243	0.000	99	203745	20.0	21.8	
28 3-Chloro-1-propene	41	3.264	3.264	0.000	93	102434	10.0	8.53	
29 Methylene Chloride	84	3.367	3.367	0.000	98	72107	10.0	9.55	
30 2-Methyl-2-propanol	59	3.409	3.409	0.000	100	173303	100.0	98.7	
31 Acrylonitrile	53	3.533	3.533	0.000	99	605703	100.0	112.8	
32 Methyl tert-butyl ether	73	3.554	3.554	0.000	95	202388	10.0	9.83	
33 trans-1,2-Dichloroethene	96	3.564	3.564	0.000	97	67399	10.0	9.24	
34 Hexane	57	3.761	3.761	0.000	89	113766	10.0	8.53	
35 Vinyl acetate	43	3.865	3.865	0.000	97	372318	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 1,1-Dichloroethane	63	3.896	3.896	0.000	96	131025	10.0	9.10	
40 2-Butanone (MEK)	43	4.289	4.289	0.000	99	325872	40.0	45.4	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	83	75328	10.0	8.98	
43 2,2-Dichloropropane	77	4.321	4.321	0.000	88	69282	10.0	9.35	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	381558	240.0	281.3	
47 Chlorobromomethane	128	4.486	4.486	0.000	96	36021	10.0	9.53	
48 Tetrahydrofuran	42	4.497	4.497	0.000	93	99892	20.0	22.5	
49 Chloroform	83	4.549	4.549	0.000	94	113879	10.0	9.35	
50 1,1,1-Trichloroethane	97	4.694	4.694	0.000	98	86555	10.0	9.09	
51 Cyclohexane	56	4.756	4.756	0.000	90	129113	10.0	8.87	
52 1,1-Dichloropropene	75	4.808	4.808	0.000	96	88421	10.0	9.08	
53 Carbon tetrachloride	117	4.808	4.808	0.000	81	68646	10.0	9.13	
54 Isobutyl alcohol	41	4.818	4.818	0.000	96	152825	250.0	284.8	
56 Benzene	78	4.963	4.963	0.000	96	262533	10.0	8.85	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	97	102096	10.0	9.08	
59 n-Heptane	43	5.150	5.150	0.000	92	110511	10.0	8.69	
60 Trichloroethene	95	5.450	5.450	0.000	98	68955	10.0	8.75	
61 2-Pentanone	43	5.564	5.564	0.000	99	411780	32.0	37.2	
62 Methylcyclohexane	55	5.647	5.647	0.000	95	105652	10.0	8.98	
64 1,2-Dichloropropane	63	5.668	5.668	0.000	98	79807	10.0	9.23	
65 1,4-Dioxane	88	5.699	5.699	0.000	92	29247	200.0	254.4	
66 Dibromomethane	93	5.730	5.730	0.000	96	47246	10.0	9.21	
67 Dichlorobromomethane	83	5.854	5.854	0.000	99	81104	10.0	9.35	
69 2-Chloroethyl vinyl ether	63	6.062	6.062	0.000	91	64120	10.0	9.63	
70 cis-1,3-Dichloropropene	75	6.207	6.207	0.000	96	104019	10.0	9.44	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	95	598363	40.0	46.4	
72 Toluene	91	6.497	6.497	0.000	98	283649	10.0	8.97	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	92	101222	10.0	9.24	
74 Ethyl methacrylate	69	6.694	6.694	0.000	90	109906	10.0	10.0	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	91	68497	10.0	9.98	
76 Tetrachloroethene	164	6.942	6.942	0.000	97	50781	10.0	8.82	
77 1,3-Dichloropropane	76	7.005	7.005	0.000	99	118341	10.0	9.48	
78 2-Hexanone	43	7.025	7.025	0.000	94	484359	40.0	46.8	
79 Chlorodibromomethane	129	7.191	7.191	0.000	90	60821	10.0	9.56	
80 Ethylene Dibromide	107	7.316	7.316	0.000	98	70860	10.0	9.49	
81 1-Chlorohexane	91	7.709	7.709	0.000	96	77734	8.00	7.06	
82 Chlorobenzene	112	7.751	7.751	0.000	97	192268	10.0	8.87	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	94	57994	10.0	9.46	
84 Ethylbenzene	106	7.823	7.823	0.000	98	102198	10.0	9.10	
85 m-Xylene & p-Xylene	106	7.948	7.948	0.000	99	127721	10.0	9.06	
86 o-Xylene	106	8.310	8.310	0.000	94	124656	10.0	9.08	
87 Styrene	104	8.321	8.321	0.000	96	207563	10.0	8.95	
88 Bromoform	173	8.497	8.497	0.000	95	37363	10.0	8.96	
89 Isopropylbenzene	105	8.642	8.642	0.000	95	320433	10.0	9.37	
91 Cyclohexanone	55	8.746	8.746	0.000	90	279743	300.0	310.4	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	114197	10.0	10.5	
93 Bromobenzene	156	8.974	8.974	0.000	94	76313	10.0	8.96	
94 trans-1,4-Dichloro-2-butene	53	8.974	8.974	0.000	69	16594	10.0	9.05	
95 1,2,3-Trichloropropane	110	8.994	8.994	0.000	84	35173	10.0	10.0	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	86632	10.0	9.05	
97 2-Chlorotoluene	126	9.150	9.150	0.000	96	71036	10.0	8.98	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	264178	10.0	9.25	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 4-Chlorotoluene	126	9.264	9.264	0.000	97	75627	10.0	8.84	
101 tert-Butylbenzene	119	9.533	9.533	0.000	94	225121	10.0	9.07	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	273905	10.0	9.32	
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	70019	10.0	9.68	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	150657	10.0	8.95	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	98	286286	10.0	9.20	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	94	153152	10.0	9.47	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	273003	10.0	9.23	
109 1,2-Dichlorobenzene	146	10.342	10.342	0.000	98	146876	10.0	9.48	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	85	28773	10.0	11.6	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	95	98006	10.0	9.65	
113 Hexachlorobutadiene	225	12.083	12.083	0.000	97	40423	10.0	9.70	
114 Naphthalene	128	12.217	12.217	0.000	97	394291	10.0	10.1	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	96	99348	10.0	9.98	
127 Butadiene	54		0.000				ND	ND	
S 128 Xylenes, Total	106				0		20.0	18.1	
S 129 Trihalomethanes, Total	1				0		40.0	37.2	
S 130 Total BTEX	1				0			45.1	
S 131 1,3-Dichloropropene, Total	1				0		20.0	18.7	
S 133 1,2-Dichloroethene, Total	1				0		20.0	18.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Gas B_00137	Amount Added: 2.00	Units: uL	
MV-MegaMain B_00086	Amount Added: 5.00	Units: uL	
mv-IS_SS_00064	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003249.D

Injection Date: 08-Jul-2023 01:00:45

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

28

Purge Vol: 5.000 mL

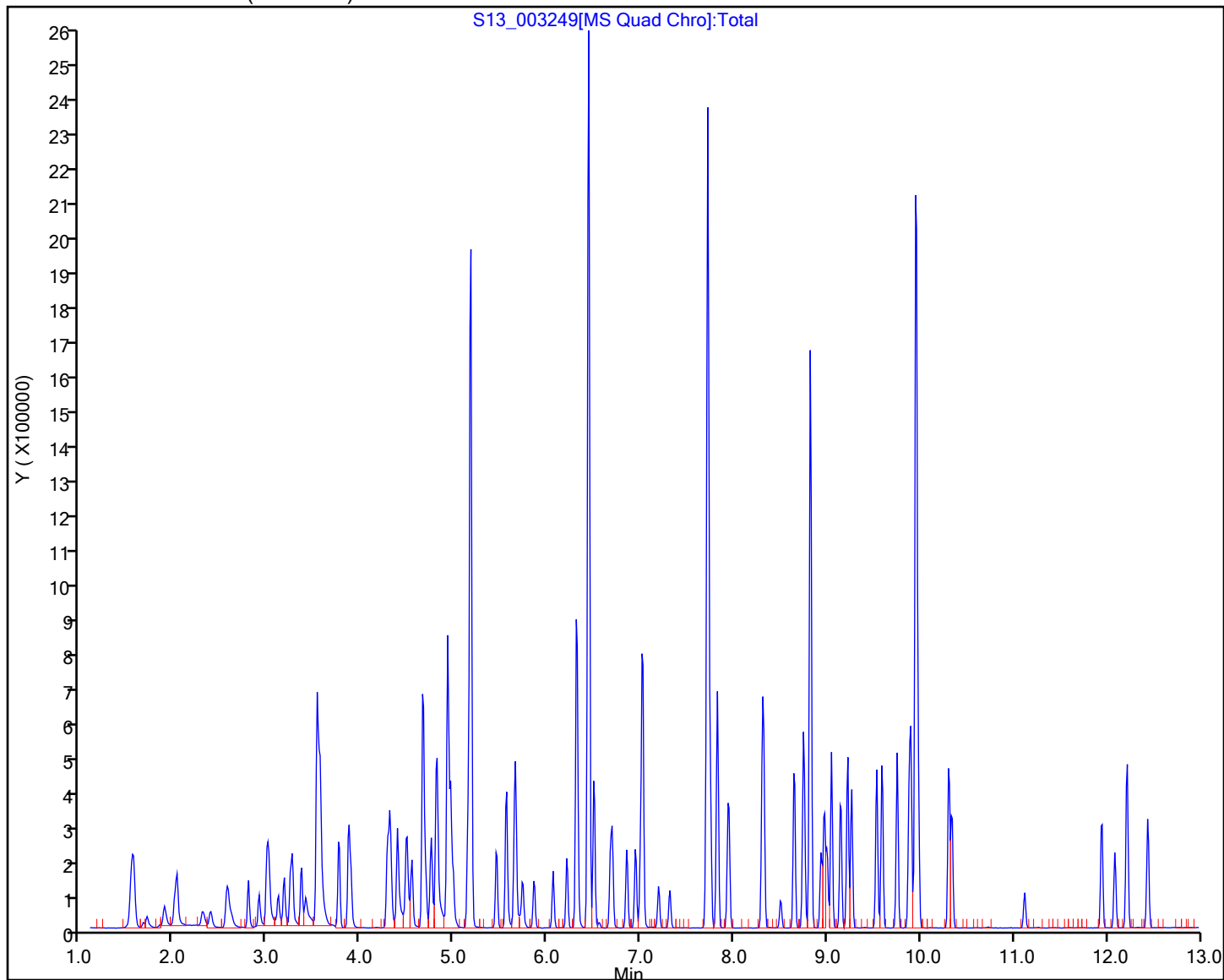
Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003250.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 08-Jul-2023 01:22:51 ALS Bottle#: 0 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 280-0123341-029
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 13-Jul-2023 09:59:36 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: RWB2

Date: 13-Jul-2023 09:59:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.180	5.180	0.000	99	1525415	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.719	7.719	0.000	86	390180	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.958	0.000	96	607315	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	380347	50.0	50.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	97	466639	50.0	50.5	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1587383	50.0	49.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	574637	50.0	49.7	
9 Dichlorodifluoromethane	85	1.709	1.709	0.000	98	16374	5.00	3.58	
10 Chloromethane	50	1.895	1.895	0.000	99	29328	5.00	3.75	
11 Vinyl chloride	62	1.999	1.999	0.000	98	24596	5.00	3.66	
12 Bromomethane	94	2.310	2.310	0.000	90	17394	5.00	3.94	
13 Chloroethane	64	2.393	2.393	0.000	98	19943	5.00	3.96	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	97	42359	5.00	3.73	
15 Trichlorofluoromethane	101	2.590	2.590	0.000	95	27311	5.00	3.82	
18 Ethyl ether	59	2.797	2.797	0.000	91	36114	5.00	4.94	
19 Acrolein	56	2.911	2.911	0.000	98	42325	49.4	43.2	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	96	29409	5.00	4.87	
22 1,1,2-Trichloro-1,2,2-trifluoro	151	3.015	3.015	0.000	70	20800	5.00	5.28	
21 Acetone	43	3.015	3.015	0.000	100	81497	20.0	19.3	
24 Iodomethane	142	3.118	3.118	0.000	99	50392	5.00	4.98	
25 Carbon disulfide	76	3.180	3.180	0.000	99	106134	5.00	4.83	
27 Methyl acetate	43	3.243	3.243	0.000	98	89480	10.0	9.74	
28 3-Chloro-1-propene	41	3.274	3.274	0.000	93	52860	5.00	4.47	
29 Methylene Chloride	84	3.367	3.367	0.000	97	39491	5.00	5.11	
30 2-Methyl-2-propanol	59	3.408	3.408	0.000	99	56681	50.0	35.9	
31 Acrylonitrile	53	3.533	3.533	0.000	100	265813	50.0	50.3	
32 Methyl tert-butyl ether	73	3.553	3.553	0.000	96	100569	5.00	4.96	
33 trans-1,2-Dichloroethene	96	3.564	3.564	0.000	95	35998	5.00	5.01	
34 Hexane	57	3.771	3.771	0.000	87	60890	5.00	4.60	
35 Vinyl acetate	43	3.875	3.875	0.000	97	168512	10.0	9.36	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 1,1-Dichloroethane	63	3.895	3.895	0.000	96	72385	5.00	5.10	
40 2-Butanone (MEK)	43	4.289	4.289	0.000	100	136470	20.0	18.7	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	83	41715	5.00	5.05	
43 2,2-Dichloropropane	77	4.320	4.320	0.000	89	35987	5.00	4.93	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	153534	120.0	115.0	
47 Chlorobromomethane	128	4.486	4.486	0.000	95	18273	5.00	4.91	
48 Tetrahydrofuran	42	4.496	4.496	0.000	93	43891	10.0	10.1	
49 Chloroform	83	4.548	4.548	0.000	93	61145	5.00	5.10	
50 1,1,1-Trichloroethane	97	4.693	4.693	0.000	98	48303	5.00	5.15	
51 Cyclohexane	56	4.756	4.756	0.000	90	73543	5.00	5.13	
53 Carbon tetrachloride	117	4.818	4.818	0.000	92	35825	5.00	4.84	
52 1,1-Dichloropropene	75	4.807	4.807	0.000	96	48155	5.00	5.02	
54 Isobutyl alcohol	41	4.818	4.818	0.000	96	62091	125.0	120.6	
56 Benzene	78	4.963	4.963	0.000	96	148686	5.00	5.09	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	96	55451	5.00	5.01	
59 n-Heptane	43	5.149	5.149	0.000	93	59455	5.00	4.75	
60 Trichloroethene	95	5.450	5.450	0.000	98	38393	5.00	4.90	
61 2-Pentanone	43	5.564	5.564	0.000	99	169173	16.0	15.5	
62 Methylcyclohexane	55	5.647	5.647	0.000	95	58005	5.00	5.01	
64 1,2-Dichloropropane	63	5.667	5.667	0.000	97	42157	5.00	4.95	
65 1,4-Dioxane	88	5.709	5.709	0.000	89	9314	100.0	86.8	
66 Dibromomethane	93	5.730	5.730	0.000	90	26379	5.00	5.22	
67 Dichlorobromomethane	83	5.854	5.854	0.000	99	43030	5.00	5.04	
69 2-Chloroethyl vinyl ether	63	6.061	6.061	0.000	92	21997	5.00	3.54	
70 cis-1,3-Dichloropropene	75	6.206	6.206	0.000	96	52532	5.00	4.80	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	95	255776	20.0	20.1	
72 Toluene	91	6.497	6.497	0.000	99	157900	5.00	5.07	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	93	51848	5.00	4.81	
74 Ethyl methacrylate	69	6.693	6.693	0.000	91	53444	5.00	4.91	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	92	33593	5.00	4.97	
76 Tetrachloroethene	164	6.942	6.942	0.000	95	25995	5.00	4.54	
77 1,3-Dichloropropane	76	7.004	7.004	0.000	94	61395	5.00	4.95	
78 2-Hexanone	43	7.025	7.025	0.000	94	205910	20.0	20.0	
79 Chlorodibromomethane	129	7.191	7.191	0.000	90	29191	5.00	4.62	
80 Ethylene Dibromide	107	7.315	7.315	0.000	98	36385	5.00	4.90	
81 1-Chlorohexane	91	7.709	7.709	0.000	95	45027	4.00	4.03	
82 Chlorobenzene	112	7.750	7.750	0.000	95	104800	5.00	4.86	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	94	29571	5.00	4.85	
84 Ethylbenzene	106	7.823	7.823	0.000	98	55764	5.00	5.00	
85 m-Xylene & p-Xylene	106	7.937	7.937	0.000	100	70308	5.00	5.02	
86 o-Xylene	106	8.310	8.310	0.000	94	68650	5.00	5.03	
87 Styrene	104	8.320	8.320	0.000	96	112801	5.00	4.90	
88 Bromoform	173	8.507	8.507	0.000	94	19296	5.00	4.66	
89 Isopropylbenzene	105	8.652	8.652	0.000	95	170503	5.00	4.99	
91 Cyclohexanone	55	8.745	8.745	0.000	91	110330	150.0	124.5	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	54047	5.00	4.96	
94 trans-1,4-Dichloro-2-butene	53	8.973	8.973	0.000	48	6648	5.00	4.47	
93 Bromobenzene	156	8.973	8.973	0.000	95	42122	5.00	4.95	
95 1,2,3-Trichloropropane	110	8.994	8.994	0.000	79	15820	5.00	4.50	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	47030	5.00	4.92	
97 2-Chlorotoluene	126	9.150	9.150	0.000	96	39787	5.00	5.03	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	140657	5.00	4.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 4-Chlorotoluene	126	9.264	9.264	0.000	97	43000	5.00	5.03	
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	125616	5.00	5.07	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	143504	5.00	4.89	
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	35618	5.00	4.93	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	78573	5.00	4.67	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	97	157977	5.00	5.08	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	93	83777	5.00	5.08	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	141659	5.00	4.79	
109 1,2-Dichlorobenzene	146	10.341	10.341	0.000	97	76541	5.00	4.95	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	80	10400	5.00	4.25	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	94	50956	5.00	4.90	
113 Hexachlorobutadiene	225	12.082	12.082	0.000	97	20734	5.00	4.87	
114 Naphthalene	128	12.217	12.217	0.000	97	184241	5.00	4.73	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	96	54371	5.00	5.36	
127 Butadiene	54		0.000				ND	ND	
S 128 Xylenes, Total	106				0		10.0	10.1	
S 129 Trihalomethanes, Total	1				0		20.0	19.4	
S 131 1,3-Dichloropropene, Total	1				0		10.0	9.61	
S 133 1,2-Dichloroethene, Total	1				0		10.0	10.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-MegaMain B_00086

Amount Added: 2.50

Units: uL

MV-Gas B_00137

Amount Added: 1.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003250.D

Injection Date: 08-Jul-2023 01:22:51

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#: 0

Worklist Smp#: 29

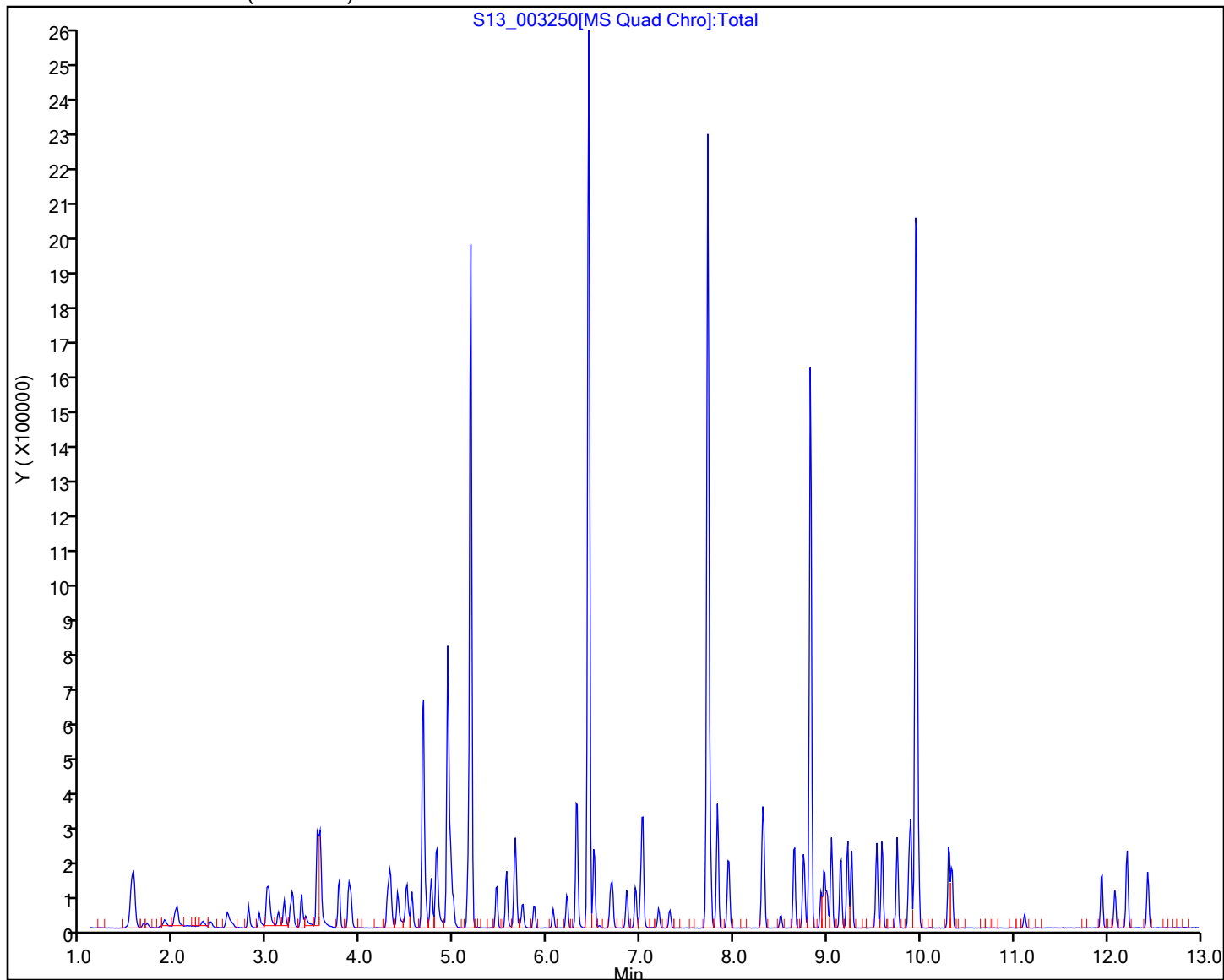
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003251.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 08-Jul-2023 01:44:57 ALS Bottle#: 0 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123341-030
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 13-Jul-2023 10:00:00 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: RWB2

Date: 13-Jul-2023 10:00:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.180	0.001	99	1413778	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.719	0.001	88	350387	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.958	-0.010	96	545346	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	348561	50.0	50.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	424628	50.0	49.6	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1431186	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	86	521968	50.0	50.3	
9 Dichlorodifluoromethane	85	1.719	1.709	0.010	97	7902	2.00	2.02	
10 Chloromethane	50	1.906	1.895	0.011	97	14140	2.00	1.95	
11 Vinyl chloride	62	2.010	1.999	0.011	97	12048	2.00	1.94	
12 Bromomethane	94	2.310	2.310	0.000	89	8468	2.00	2.07	
13 Chloroethane	64	2.393	2.393	0.000	98	8844	2.00	1.90	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	97	19617	2.00	1.87	
15 Trichlorofluoromethane	101	2.590	2.590	0.000	95	14362	2.00	2.47	
18 Ethyl ether	59	2.797	2.797	0.000	92	12733	2.00	1.88	
19 Acrolein	56	2.922	2.911	0.011	96	17453	19.8	19.2	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	97	11447	2.00	2.04	
22 1,1,2-Trichloro-1,2,2-trifluoro	151	3.015	3.015	0.000	75	7679	2.00	2.10	
21 Acetone	43	3.025	3.015	0.010	100	33957	8.00	5.98	
24 Iodomethane	142	3.118	3.118	0.000	99	18377	2.00	1.96	
25 Carbon disulfide	76	3.181	3.180	0.001	99	41989	2.00	2.06	
27 Methyl acetate	43	3.253	3.243	0.011	99	30358	4.00	3.57	
28 3-Chloro-1-propene	41	3.274	3.274	0.000	92	20003	2.00	1.83	
29 Methylene Chloride	84	3.367	3.367	0.000	98	15179	2.00	1.85	
30 2-Methyl-2-propanol	59	3.419	3.408	0.011	99	17596	20.0	15.2	
31 Acrylonitrile	53	3.533	3.533	0.000	99	100521	20.0	20.5	
32 Methyl tert-butyl ether	73	3.564	3.553	0.011	96	38185	2.00	2.03	
33 trans-1,2-Dichloroethene	96	3.574	3.564	0.010	94	13376	2.00	2.01	
34 Hexane	57	3.771	3.771	0.000	88	23384	2.00	1.97	
35 Vinyl acetate	43	3.875	3.875	0.000	98	56115	4.00	3.36	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 1,1-Dichloroethane	63	3.896	3.895	0.001	95	25494	2.00	1.94	
40 2-Butanone (MEK)	43	4.289	4.289	0.000	99	58408	8.00	7.99	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	84	15115	2.00	1.97	
43 2,2-Dichloropropane	77	4.321	4.320	0.001	92	12569	2.00	1.86	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	52067	48.0	42.1	
47 Chlorobromomethane	128	4.497	4.486	0.011	92	6659	2.00	1.93	
48 Tetrahydrofuran	42	4.497	4.496	0.001	94	15864	4.00	3.92	
49 Chloroform	83	4.549	4.548	0.001	93	21659	2.00	1.95	
50 1,1,1-Trichloroethane	97	4.694	4.693	0.001	98	17730	2.00	2.04	
51 Cyclohexane	56	4.756	4.756	0.000	91	25568	2.00	1.92	
52 1,1-Dichloropropene	75	4.808	4.807	0.001	95	18068	2.00	2.03	
53 Carbon tetrachloride	117	4.808	4.818	-0.010	76	13359	2.00	1.95	
54 Isobutyl alcohol	41	4.818	4.818	0.000	96	20719	50.0	46.8	
56 Benzene	78	4.963	4.963	0.000	97	53155	2.00	1.96	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	95	19588	2.00	1.91	
59 n-Heptane	43	5.150	5.149	0.001	90	21820	2.00	1.88	
60 Trichloroethene	95	5.461	5.450	0.010	97	15023	2.00	2.14	
61 2-Pentanone	43	5.564	5.564	0.000	99	61613	6.40	6.10	
62 Methylcyclohexane	55	5.657	5.647	0.010	94	20221	2.00	1.88	
64 1,2-Dichloropropane	63	5.668	5.667	0.001	94	15757	2.00	2.00	
65 1,4-Dioxane	88	5.709	5.709	0.000	86	3381	40.0	38.1	
66 Dibromomethane	93	5.730	5.730	0.000	95	9113	2.00	1.95	
67 Dichlorobromomethane	83	5.854	5.854	0.000	98	14104	2.00	1.78	
69 2-Chloroethyl vinyl ether	63	6.062	6.061	0.001	87	9334	2.00	1.77	
70 cis-1,3-Dichloropropene	75	6.207	6.206	0.001	95	18153	2.00	1.85	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	94	91039	8.00	7.73	
72 Toluene	91	6.507	6.497	0.010	98	57563	2.00	1.99	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	92	18159	2.00	1.82	
74 Ethyl methacrylate	69	6.694	6.693	0.001	93	17204	2.00	1.76	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	93	11798	2.00	1.88	
76 Tetrachloroethene	164	6.942	6.942	0.000	93	10619	2.00	2.07	
77 1,3-Dichloropropane	76	7.005	7.004	0.001	92	21049	2.00	1.89	
78 2-Hexanone	43	7.025	7.025	0.000	95	75280	8.00	8.16	
79 Chlorodibromomethane	129	7.191	7.191	0.000	90	9184	2.00	1.62	
80 Ethylene Dibromide	107	7.316	7.315	0.001	97	12648	2.00	1.90	
81 1-Chlorohexane	91	7.709	7.709	0.000	96	17146	1.60	1.58	
82 Chlorobenzene	112	7.751	7.750	0.001	97	36923	2.00	1.91	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	90	10191	2.00	1.86	
84 Ethylbenzene	106	7.823	7.823	0.000	98	19063	2.00	1.90	
85 m-Xylene & p-Xylene	106	7.948	7.937	0.011	98	23845	2.00	1.90	
86 o-Xylene	106	8.310	8.310	0.000	94	23072	2.00	1.88	
87 Styrene	104	8.321	8.320	0.001	96	39446	2.00	1.91	
88 Bromoform	173	8.497	8.507	-0.010	91	6022	2.00	1.62	
89 Isopropylbenzene	105	8.642	8.652	-0.010	96	58282	2.00	1.90	
91 Cyclohexanone	55	8.746	8.745	0.001	89	38727	60.0	51.5	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	95	17251	2.00	1.76	
93 Bromobenzene	156	8.963	8.973	-0.010	95	15468	2.00	2.02	
94 trans-1,4-Dichloro-2-butene	53	8.974	8.973	0.001	48	1778	2.00	2.32	
95 1,2,3-Trichloropropane	110	9.005	8.994	0.011	79	6466	2.00	2.05	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	16579	2.00	1.93	
97 2-Chlorotoluene	126	9.139	9.150	-0.011	96	13496	2.00	1.90	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	49487	2.00	1.93	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 4-Chlorotoluene	126	9.264	9.264	0.000	97	15489	2.00	2.02	
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	43268	2.00	1.94	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	52242	2.00	1.98	
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	12729	2.00	1.96	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	31190	2.00	2.06	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	97	55653	2.00	1.99	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	92	30771	2.00	1.94	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	51281	2.00	1.93	
109 1,2-Dichlorobenzene	146	10.342	10.341	0.001	95	27740	2.00	2.00	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	83	4182	2.00	1.97	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	94	20967	2.00	2.10	
113 Hexachlorobutadiene	225	12.083	12.082	0.001	94	8432	2.00	2.08	
114 Naphthalene	128	12.217	12.217	0.000	97	74086	2.00	2.12	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	93	19774	2.00	2.02	
127 Butadiene	54		0.000				ND	ND	
S 128 Xylenes, Total	106				0		4.00	3.78	
S 129 Trihalomethanes, Total	1				0		8.00	6.97	
S 130 Total BTEX	1				0			9.64	
S 131 1,3-Dichloropropene, Total	1				0		4.00	3.66	
S 133 1,2-Dichloroethene, Total	1				0		4.00	3.98	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

Cal Dil Std_00202

Amount Added: 20.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003251.D

Injection Date: 08-Jul-2023 01:44:57

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

30

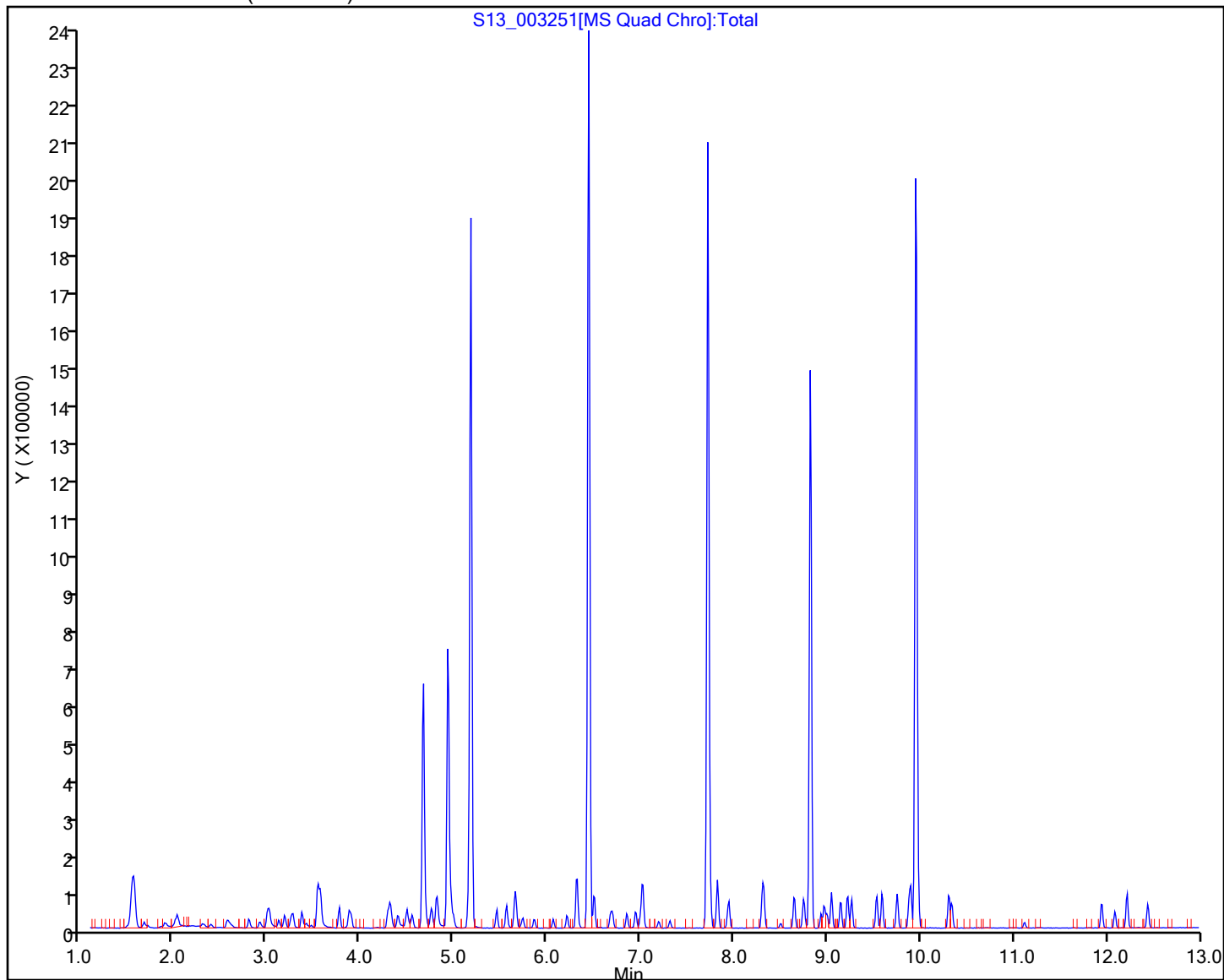
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003252.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 08-Jul-2023 02:07:16 ALS Bottle#: 0 Worklist Smp#: 31
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123341-031
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 13-Jul-2023 10:00:17 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: AK2J

Date: 10-Jul-2023 20:08:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.180	0.001	99	1451943	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.719	0.001	86	362196	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.958	-0.010	96	586804	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	359022	50.0	50.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	445928	50.0	50.7	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	92	1483823	50.0	50.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	551466	50.0	49.4	
9 Dichlorodifluoromethane	85	1.709	1.709	0.000	95	3509	1.00	1.06	
10 Chloromethane	50	1.896	1.895	0.001	98	7589	1.00	1.02	
11 Vinyl chloride	62	2.010	1.999	0.011	95	6515	1.00	1.02	
12 Bromomethane	94	2.300	2.310	-0.010	87	4214	1.00	1.00	
13 Chloroethane	64	2.393	2.393	0.000	97	4795	1.00	1.00	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	96	10880	1.00	1.01	
15 Trichlorofluoromethane	101	2.600	2.590	0.010	95	7991	1.00	1.66	
18 Ethyl ether	59	2.797	2.797	0.000	97	7101	1.00	1.02	
19 Acrolein	56	2.911	2.911	0.000	94	8282	9.88	8.88	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	97	6027	1.00	1.05	
21 Acetone	43	3.015	3.015	0.000	99	26810	4.00	3.47	
22 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.015	3.015	0.000	69	3802	1.00	1.01	
24 Iodomethane	142	3.118	3.118	0.000	98	9240	1.00	0.9590	
25 Carbon disulfide	76	3.181	3.180	0.001	99	24644	1.00	1.18	
27 Methyl acetate	43	3.253	3.243	0.011	98	19524	2.00	2.23	
28 3-Chloro-1-propene	41	3.263	3.274	-0.011	92	12021	1.00	1.07	
29 Methylene Chloride	84	3.367	3.367	0.000	97	9875	1.00	1.00	
30 2-Methyl-2-propanol	59	3.409	3.408	0.001	97	10219	10.0	10.7	
31 Acrylonitrile	53	3.533	3.533	0.000	99	49471	10.0	9.83	
32 Methyl tert-butyl ether	73	3.554	3.553	0.001	94	19429	1.00	1.01	
33 trans-1,2-Dichloroethene	96	3.574	3.564	0.010	98	7854	1.00	1.15	
34 Hexane	57	3.771	3.771	0.000	85	12962	1.00	1.05	
35 Vinyl acetate	43	3.875	3.875	0.000	97	32159	2.00	1.88	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 1,1-Dichloroethane	63	3.896	3.895	0.001	94	14355	1.00	1.06	
40 2-Butanone (MEK)	43	4.289	4.289	0.000	98	34917	4.00	4.17	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	82	8615	1.00	1.10	
43 2,2-Dichloropropane	77	4.320	4.320	0.000	52	6647	1.00	0.9571	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	23790	24.0	18.7	
47 Chlorobromomethane	128	4.486	4.486	0.000	95	4225	1.00	1.19	
48 Tetrahydrofuran	42	4.507	4.496	0.011	79	7762	2.00	1.87	
49 Chloroform	83	4.548	4.548	0.000	93	11708	1.00	1.03	
50 1,1,1-Trichloroethane	97	4.694	4.693	0.001	96	8342	1.00	0.9347	
51 Cyclohexane	56	4.756	4.756	0.000	87	13325	1.00	0.9764	
52 1,1-Dichloropropene	75	4.808	4.807	0.001	92	9457	1.00	1.04	
53 Carbon tetrachloride	117	4.808	4.818	-0.010	79	6268	1.00	0.8892	
54 Isobutyl alcohol	41	4.818	4.818	0.000	76	10662	25.0	26.1	
56 Benzene	78	4.963	4.963	0.000	95	31662	1.00	1.14	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	96	12122	1.00	1.15	a
59 n-Heptane	43	5.150	5.149	0.001	81	12979	1.00	1.09	a
60 Trichloroethene	95	5.460	5.450	0.010	95	7704	1.00	1.06	
61 2-Pentanone	43	5.564	5.564	0.000	98	33850	3.20	3.26	
62 Methylcyclohexane	55	5.647	5.647	0.000	97	11810	1.00	1.07	
64 1,2-Dichloropropane	63	5.657	5.667	-0.010	94	8259	1.00	1.02	
65 1,4-Dioxane	88	5.709	5.709	0.000	39	1188	20.0	17.4	
66 Dibromomethane	93	5.730	5.730	0.000	91	5796	1.00	1.21	
67 Dichlorobromomethane	83	5.865	5.854	0.011	96	7854	1.00	0.9666	
69 2-Chloroethyl vinyl ether	63	6.062	6.061	0.001	85	5629	1.00	1.15	
70 cis-1,3-Dichloropropene	75	6.207	6.206	0.001	93	9721	1.00	0.9562	
71 4-Methyl-2-pentanone (MIBK)	43	6.321	6.310	0.011	95	48891	4.00	4.04	
72 Toluene	91	6.497	6.497	0.000	98	32138	1.00	1.08	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	90	10785	1.00	1.05	
74 Ethyl methacrylate	69	6.694	6.693	0.001	87	9693	1.00	0.9593	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	88	6590	1.00	1.02	
76 Tetrachloroethene	164	6.942	6.942	0.000	94	5154	1.00	0.9707	
77 1,3-Dichloropropane	76	7.005	7.004	0.001	89	13007	1.00	1.13	
78 2-Hexanone	43	7.025	7.025	0.000	94	40182	4.00	4.21	
79 Chlorodibromomethane	129	7.191	7.191	0.000	84	5749	1.00	0.9792	
80 Ethylene Dibromide	107	7.315	7.315	0.000	98	7379	1.00	1.07	
81 1-Chlorohexane	91	7.709	7.709	0.000	83	10149	0.8000	0.8102	
82 Chlorobenzene	112	7.751	7.750	0.001	95	23551	1.00	1.18	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	42	4633	1.00	0.8193	
84 Ethylbenzene	106	7.823	7.823	0.000	99	10462	1.00	1.01	
85 m-Xylene & p-Xylene	106	7.937	7.937	0.000	98	14259	1.00	1.10	
86 o-Xylene	106	8.300	8.310	-0.010	95	13798	1.00	1.09	
87 Styrene	104	8.321	8.320	0.001	92	23808	1.00	1.11	
88 Bromoform	173	8.497	8.507	-0.010	92	3874	1.00	1.01	
89 Isopropylbenzene	105	8.642	8.652	-0.010	96	34884	1.00	1.06	
91 Cyclohexanone	55	8.746	8.745	0.001	91	19169	30.0	27.3	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	93	11316	1.00	1.07	
93 Bromobenzene	156	8.974	8.973	0.001	92	9028	1.00	1.10	
94 trans-1,4-Dichloro-2-butene	53		8.973				ND	ND	
95 1,2,3-Trichloropropane	110	9.005	8.994	0.011	81	3330	1.00	0.9811	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	9729	1.00	1.05	
97 2-Chlorotoluene	126	9.139	9.150	-0.011	96	8074	1.00	1.06	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	27888	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 4-Chlorotoluene	126	9.264	9.264	0.000	97	8926	1.00	1.08	
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	24735	1.00	1.03	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	30287	1.00	1.07	
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	7193	1.00	1.03	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	18563	1.00	1.14	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	96	29280	1.00	0.9753	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	92	19778	1.00	1.06	
108 n-Butylbenzene	91	10.300	10.300	0.000	97	31452	1.00	1.10	
109 1,2-Dichlorobenzene	146	10.342	10.341	0.001	97	17769	1.00	1.19	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	79	2173	1.00	1.01	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	94	12560	1.00	1.05	
113 Hexachlorobutadiene	225	12.083	12.082	0.001	94	5456	1.00	1.16	
114 Naphthalene	128	12.217	12.217	0.000	97	44098	1.00	1.17	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	94	13121	1.00	1.15	
127 Butadiene	54		0.000				ND	ND	
S 128 Xylenes, Total	106				0		2.00	2.19	
S 129 Trihalomethanes, Total	1				0		4.00	3.98	
S 130 Total BTEX	1				0			5.42	
S 131 1,3-Dichloropropene, Total	1				0		2.00	2.01	
S 133 1,2-Dichloroethene, Total	1				0		2.00	2.24	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

Cal Dil Std_00202

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003252.D

Injection Date: 08-Jul-2023 02:07:16

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

31

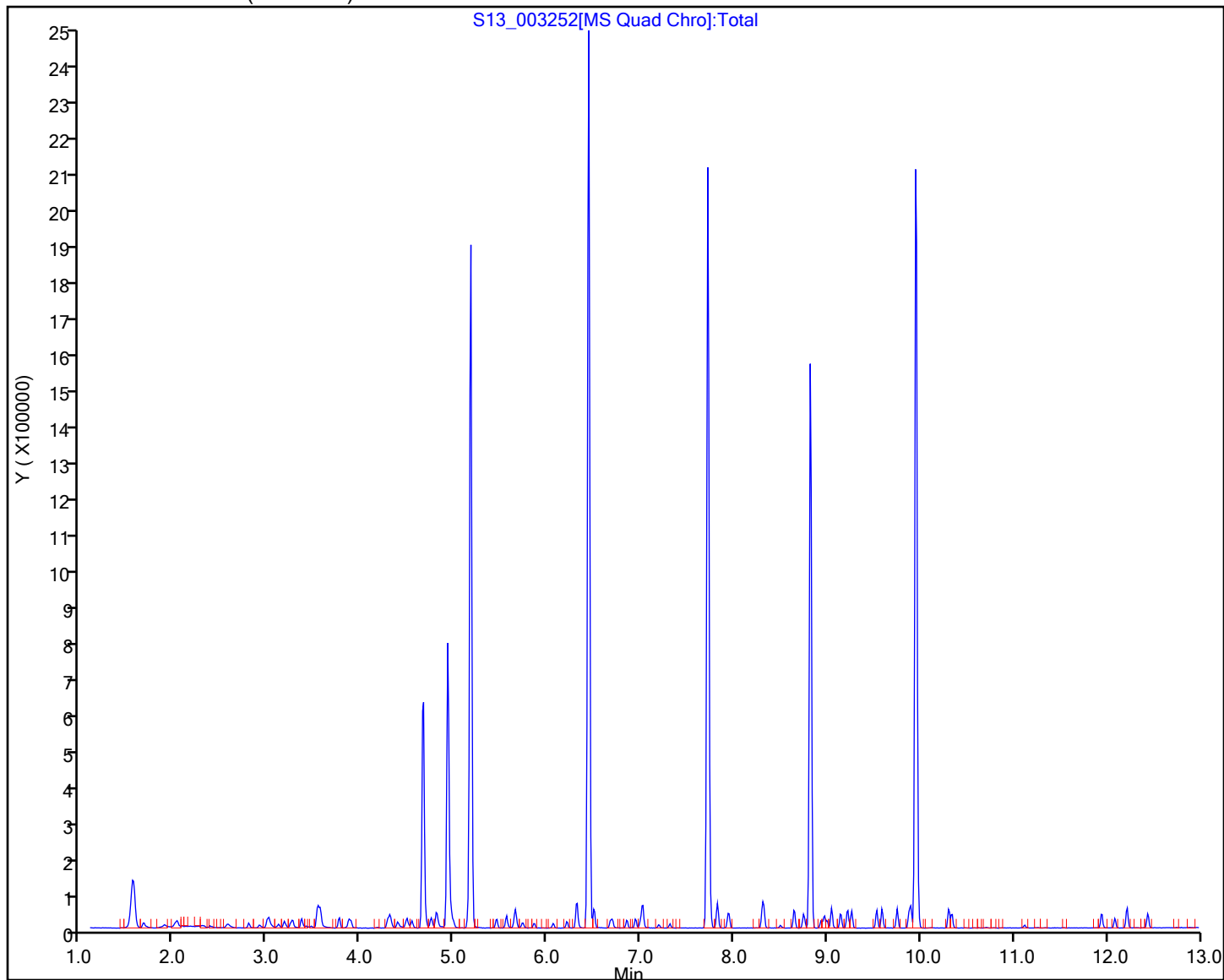
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

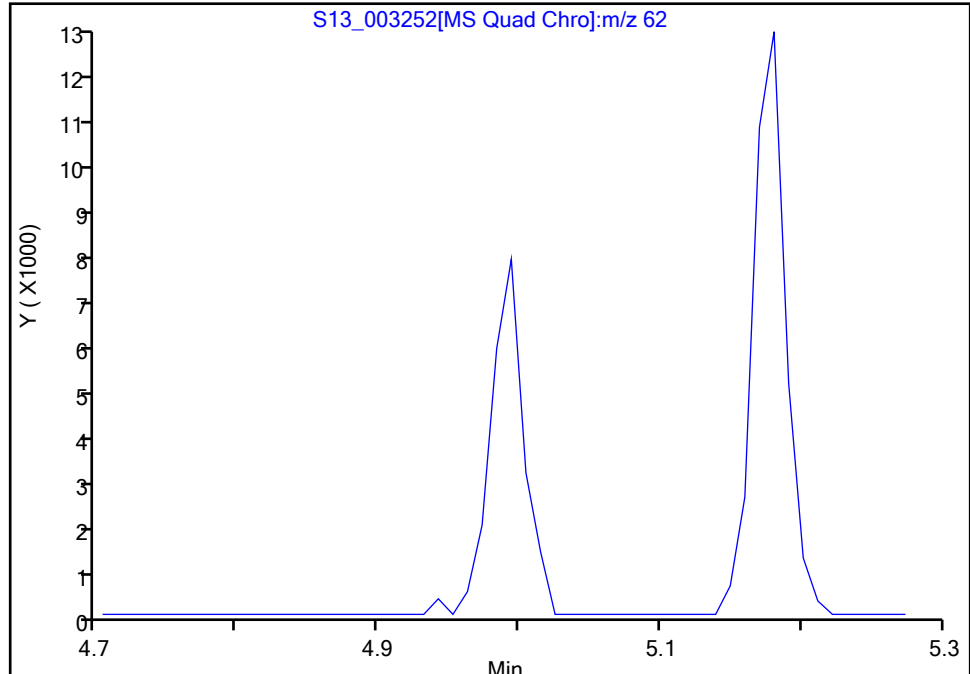
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Injection Date: 08-Jul-2023 02:07:16 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

57 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

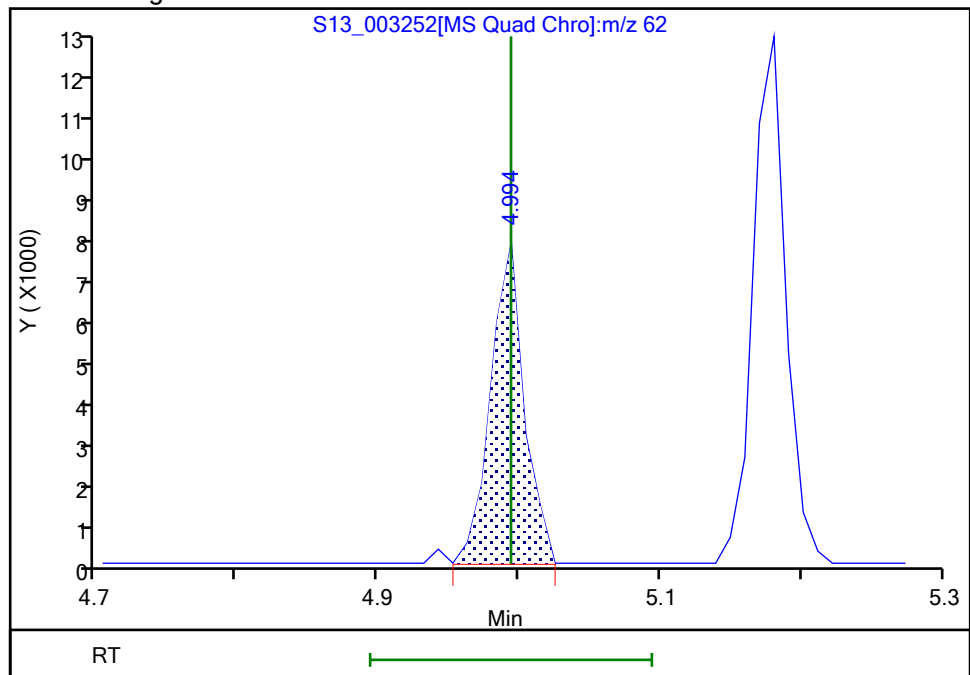
Not Detected
Expected RT: 4.99

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 12122
Amount: 1.149758
Amount Units: ug/l



Reviewer: AK2J, 10-Jul-2023 20:08:00 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Denver

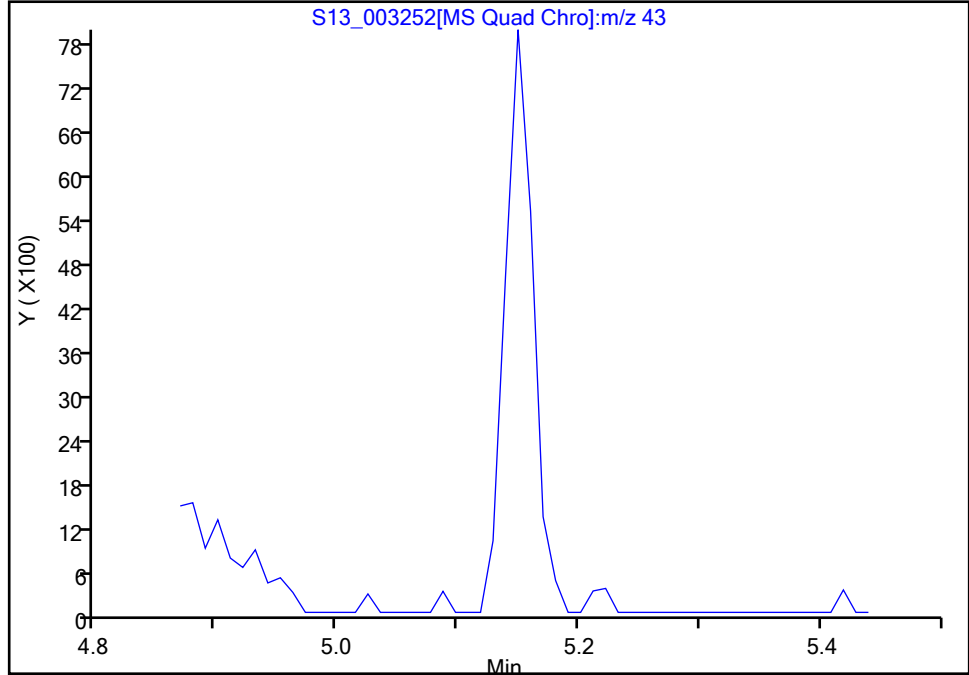
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Injection Date: 08-Jul-2023 02:07:16 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

59 n-Heptane, CAS: 142-82-5

Signal: 1

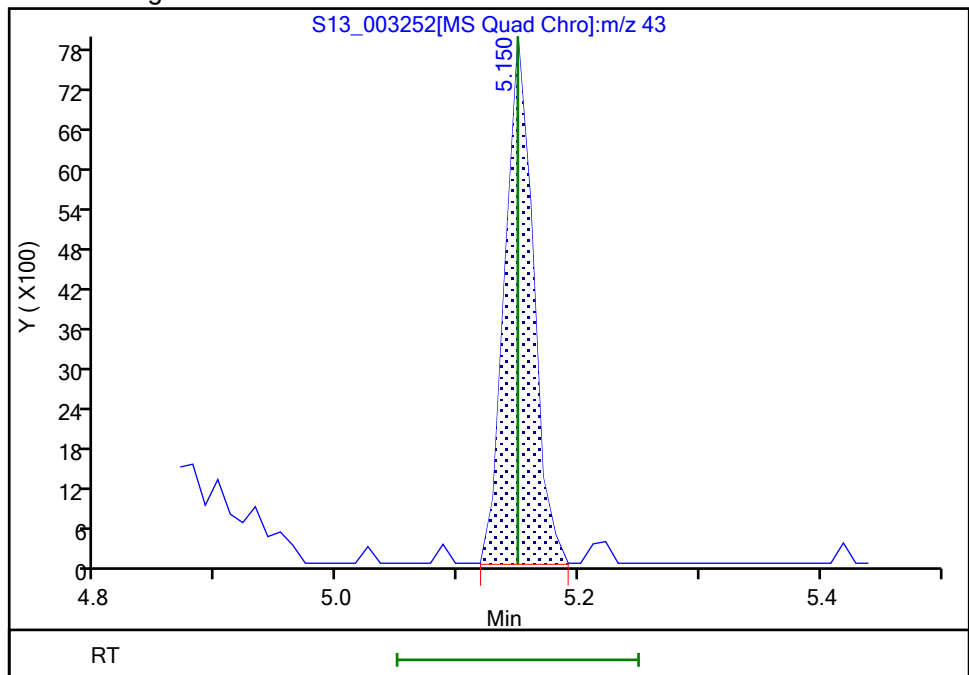
Not Detected
Expected RT: 5.15

Processing Integration Results



RT: 5.15
Area: 12979
Amount: 1.088472
Amount Units: ug/l

Manual Integration Results



Reviewer: AK2J, 10-Jul-2023 20:08:05 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 08-Jul-2023 02:29:25 ALS Bottle#: 0 Worklist Smp#: 32
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123341-032
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 13-Jul-2023 10:01:27 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: AK2J

Date: 10-Jul-2023 20:07:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.180	0.001	99	1471704	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.719	7.719	0.000	87	372618	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.958	0.000	96	582548	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	370748	50.0	51.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	460557	50.0	51.7	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1510687	50.0	49.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	552217	50.0	49.8	
9 Dichlorodifluoromethane	85	1.719	1.709	0.010	91	1627	0.5000	0.6630	a
10 Chloromethane	50	1.895	1.895	0.000	96	4045	0.5000	0.5356	
11 Vinyl chloride	62	1.999	1.999	0.000	92	3210	0.5000	0.4954	a
12 Bromomethane	94	2.310	2.310	0.000	43	1920	0.5000	0.4512	
13 Chloroethane	64	2.393	2.393	0.000	94	2656	0.5000	0.5470	a
14 Dichlorofluoromethane	67	2.559	2.569	-0.010	95	5989	0.5000	0.5473	
15 Trichlorofluoromethane	101	2.600	2.590	0.010	35	3563	0.5000	1.12	
18 Ethyl ether	59	2.797	2.797	0.000	93	3160	0.5000	0.4485	
19 Acrolein	56	2.911	2.911	0.000	95	5278	4.94	5.58	
20 1,1-Dichloroethene	96	3.004	2.994	0.010	95	2749	0.5000	0.4717	
22 1,1,2-Trichloro-1,2,2-trifluoro	151	3.004	3.015	-0.011	53	1247	0.5000	0.3279	
21 Acetone	43	3.015	3.015	0.000	100	24709	2.00	2.71	
24 Iodomethane	142	3.118	3.118	0.000	96	5030	0.5000	0.5151	
25 Carbon disulfide	76	3.180	3.180	0.000	99	12877	0.5000	0.6078	
27 Methyl acetate	43	3.253	3.243	0.011	96	9203	1.00	1.04	
28 3-Chloro-1-propene	41	3.274	3.274	0.000	96	7328	0.5000	0.6423	
29 Methylene Chloride	84	3.367	3.367	0.000	98	6609	0.5000	0.5079	
30 2-Methyl-2-propanol	59	3.419	3.408	0.011	90	4856	5.00	7.52	
31 Acrylonitrile	53	3.533	3.533	0.000	98	28506	5.00	5.59	
32 Methyl tert-butyl ether	73	3.553	3.553	0.000	66	9394	0.5000	0.4804	
33 trans-1,2-Dichloroethene	96	3.564	3.564	0.000	90	3173	0.5000	0.4580	
34 Hexane	57	3.771	3.771	0.000	89	6209	0.5000	0.4906	
35 Vinyl acetate	43	3.875	3.875	0.000	97	15037	1.00	0.8655	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
37 1,1-Dichloroethane	63	3.895	3.895	0.000	93	6870	0.5000	0.5021	
40 2-Butanone (MEK)	43	4.289	4.289	0.000	100	20747	2.00	1.96	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	84	4584	0.5000	0.5750	
43 2,2-Dichloropropane	77	4.320	4.320	0.000	36	3141	0.5000	0.4462	a
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	97	15189	12.0	11.8	
47 Chlorobromomethane	128	4.486	4.486	0.000	88	1730	0.5000	0.4816	
48 Tetrahydrofuran	42	4.507	4.496	0.011	85	4521	1.00	1.07	
49 Chloroform	83	4.548	4.548	0.000	92	5872	0.5000	0.5076	
50 1,1,1-Trichloroethane	97	4.693	4.693	0.000	93	4048	0.5000	0.4475	
51 Cyclohexane	56	4.756	4.756	0.000	86	7038	0.5000	0.5088	
52 1,1-Dichloropropene	75	4.807	4.807	0.000	94	4328	0.5000	0.4679	
53 Carbon tetrachloride	117	4.818	4.818	0.000	79	2972	0.5000	0.4160	
54 Isobutyl alcohol	41	4.828	4.818	0.010	61	3706	12.5	12.4	
56 Benzene	78	4.963	4.963	0.000	92	14059	0.5000	0.4989	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	96	6767	0.5000	0.6332	a
59 n-Heptane	43	5.149	5.149	0.000	90	6956	0.5000	0.5755	a
60 Trichloroethene	95	5.460	5.450	0.010	95	4106	0.5000	0.5490	
61 2-Pentanone	43	5.564	5.564	0.000	98	19107	1.60	1.82	
62 Methylcyclohexane	55	5.647	5.647	0.000	92	5538	0.5000	0.4957	
64 1,2-Dichloropropane	63	5.668	5.667	0.001	74	4036	0.5000	0.4914	
65 1,4-Dioxane	88	5.703	5.709	-0.006	9	0	10.0	0	a
66 Dibromomethane	93	5.740	5.730	0.010	91	2664	0.5000	0.5467	
67 Dichlorobromomethane	83	5.854	5.854	0.000	92	3941	0.5000	0.4785	
69 2-Chloroethyl vinyl ether	63	6.061	6.061	0.000	81	2440	0.5000	0.6507	
70 cis-1,3-Dichloropropene	75	6.206	6.206	0.000	91	4581	0.5000	0.4380	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	95	24982	2.00	2.04	
72 Toluene	91	6.497	6.497	0.000	99	15774	0.5000	0.5250	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	85	5145	0.5000	0.4946	
74 Ethyl methacrylate	69	6.694	6.693	0.001	89	4604	0.5000	0.4429	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	86	3273	0.5000	0.5019	
76 Tetrachloroethene	164	6.953	6.942	0.011	94	2993	0.5000	0.5479	
77 1,3-Dichloropropane	76	7.004	7.004	0.000	87	5996	0.5000	0.5061	
78 2-Hexanone	43	7.025	7.025	0.000	93	19582	2.00	2.00	
79 Chlorodibromomethane	129	7.191	7.191	0.000	81	2374	0.5000	0.3930	
80 Ethylene Dibromide	107	7.315	7.315	0.000	93	3610	0.5000	0.5093	
81 1-Chlorohexane	91	7.709	7.709	0.000	33	6294	0.4000	0.4006	
82 Chlorobenzene	112	7.751	7.750	0.001	88	11345	0.5000	0.5514	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	42	2648	0.5000	0.4552	
84 Ethylbenzene	106	7.823	7.823	0.000	98	5358	0.5000	0.5029	
85 m-Xylene & p-Xylene	106	7.937	7.937	0.000	97	6428	0.5000	0.4806	
86 o-Xylene	106	8.300	8.310	-0.010	96	6434	0.5000	0.4939	
87 Styrene	104	8.321	8.320	0.001	90	10471	0.5000	0.4759	
88 Bromoform	173	8.497	8.507	-0.010	87	1859	0.5000	0.4696	a
89 Isopropylbenzene	105	8.642	8.652	-0.010	94	14962	0.5000	0.4566	
91 Cyclohexanone	55	8.745	8.745	0.000	88	9291	15.0	15.5	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	89	5253	0.5000	0.5023	
93 Bromobenzene	156	8.963	8.973	-0.010	95	4668	0.5000	0.5720	
94 trans-1,4-Dichloro-2-butene	53		8.973				ND	ND	
95 1,2,3-Trichloropropane	110	9.005	8.994	0.011	79	2039	0.5000	0.6051	
96 N-Propylbenzene	120	9.046	9.046	0.000	98	4774	0.5000	0.5206	
97 2-Chlorotoluene	126	9.139	9.150	-0.011	95	3758	0.5000	0.4956	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	93	14108	0.5000	0.5154	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 4-Chlorotoluene	126	9.264	9.264	0.000	96	4406	0.5000	0.5373	
101 tert-Butylbenzene	119	9.533	9.533	0.000	92	12503	0.5000	0.5257	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	96	14156	0.5000	0.5029	
103 sec-Butylbenzene	134	9.751	9.751	0.000	93	3160	0.5000	0.4558	
104 1,3-Dichlorobenzene	146	9.885	9.875	0.010	96	10045	0.5000	0.6226	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	97	15095	0.5000	0.5065	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	91	10948	0.5000	0.4885	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	15280	0.5000	0.5391	
109 1,2-Dichlorobenzene	146	10.331	10.341	-0.010	94	7613	0.5000	0.5128	
110 1,2-Dibromo-3-Chloropropane	157	11.108	11.119	-0.011	72	805	0.5000	0.4466	
112 1,2,4-Trichlorobenzene	180	11.937	11.948	-0.011	93	7048	0.5000	0.4818	
113 Hexachlorobutadiene	225	12.082	12.082	0.000	82	2657	0.5000	0.4561	
114 Naphthalene	128	12.217	12.217	0.000	97	22600	0.5000	0.6043	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	92	6616	0.5000	0.4586	
127 Butadiene	54		0.000				ND	ND	
S 128 Xylenes, Total	106				0		1.00	0.9744	
S 129 Trihalomethanes, Total	1				0		2.00	1.85	
S 130 Total BTEX	1				0			2.50	
S 131 1,3-Dichloropropene, Total	1				0		1.00	0.9326	
S 133 1,2-Dichloroethene, Total	1				0		1.00	1.03	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

Cal Dil Std_00202

Amount Added: 5.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D

Injection Date: 08-Jul-2023 02:29:25

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

32

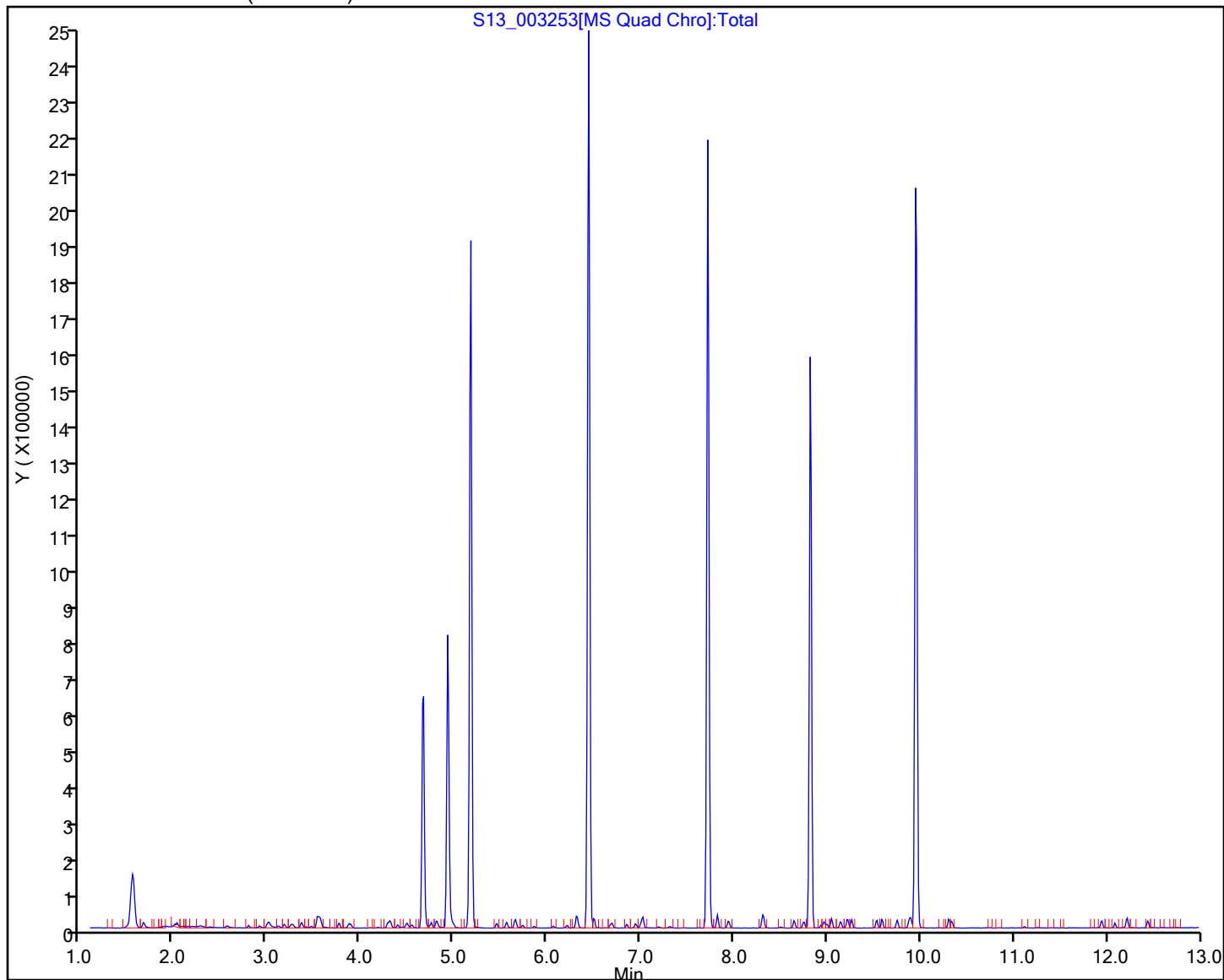
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

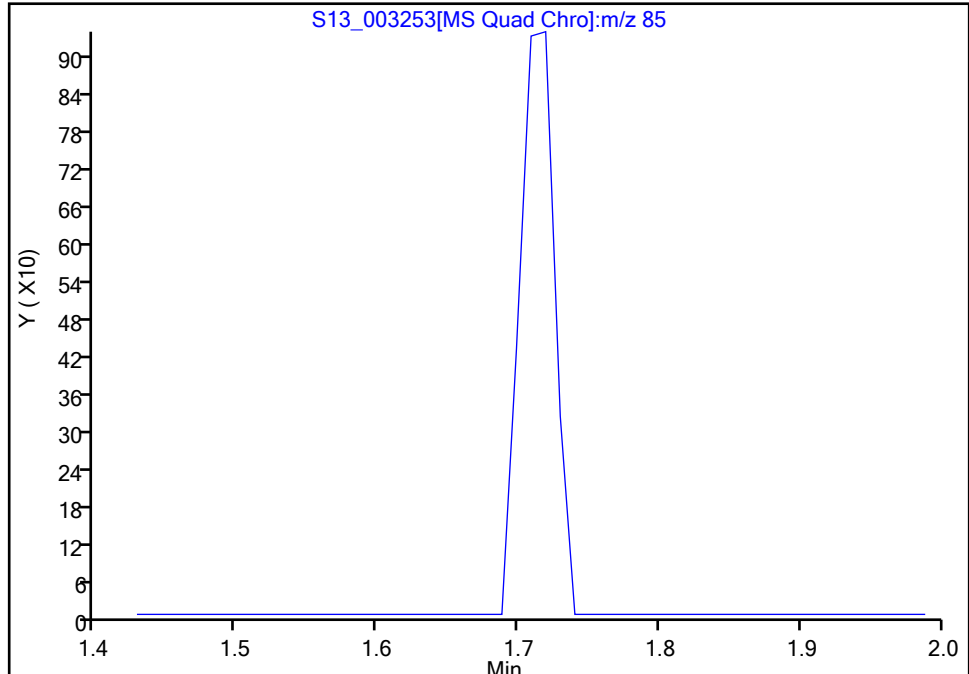
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
Injection Date: 08-Jul-2023 02:29:25 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

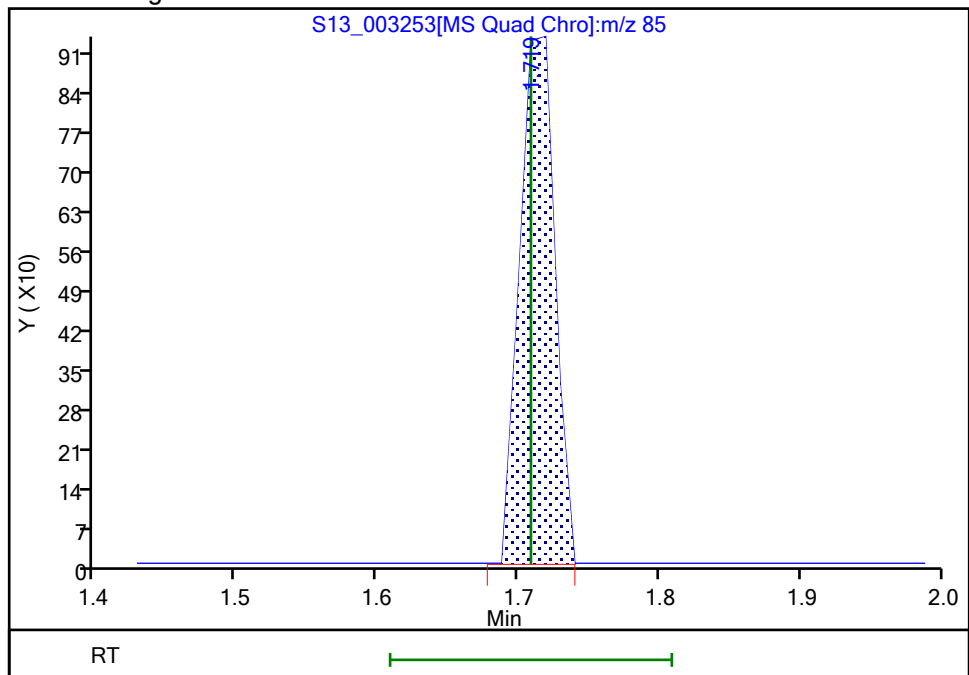
Not Detected
Expected RT: 1.71

Processing Integration Results



RT: 1.72
Area: 1627
Amount: 0.663049
Amount Units: ug/l

Manual Integration Results



Reviewer: AK2J, 10-Jul-2023 20:06:20 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Denver

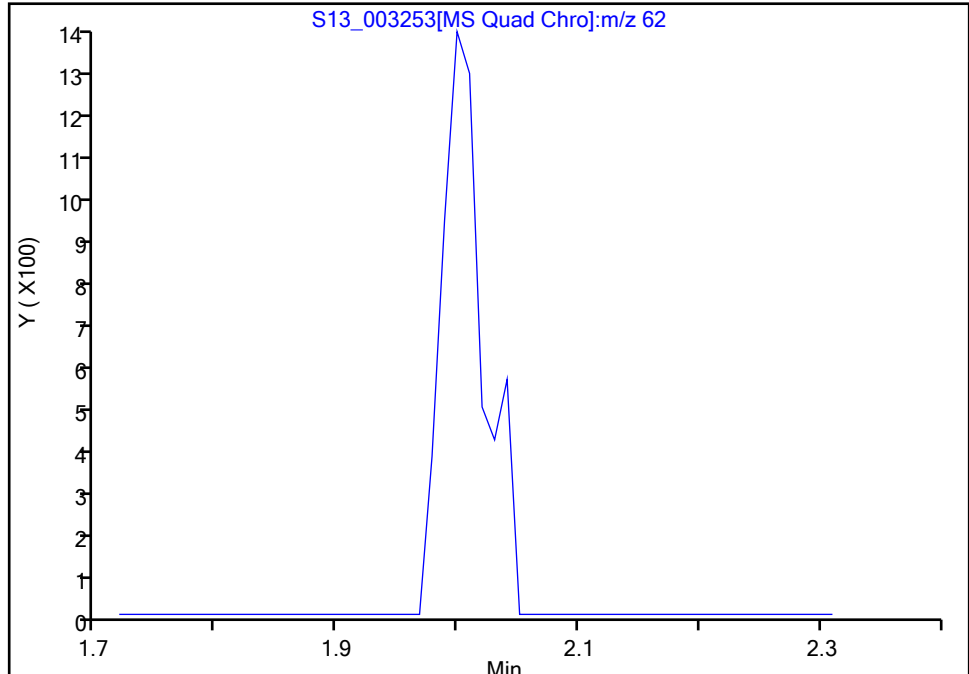
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
Injection Date: 08-Jul-2023 02:29:25 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

11 Vinyl chloride, CAS: 75-01-4

Signal: 1

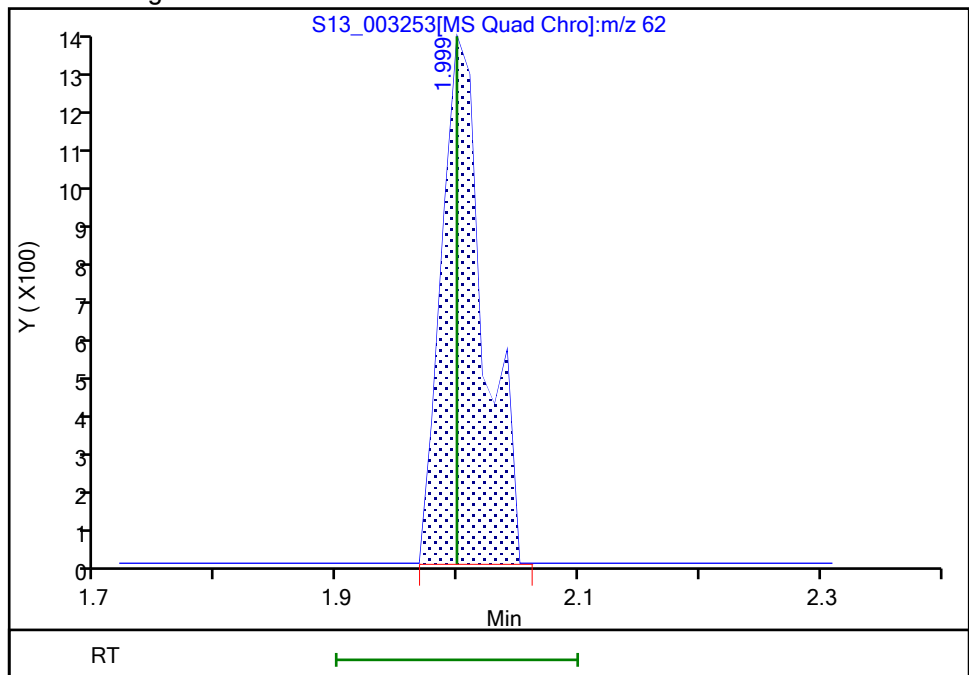
Not Detected
Expected RT: 2.00

Processing Integration Results



RT: 2.00
Area: 3210
Amount: 0.495448
Amount Units: ug/l

Manual Integration Results



Reviewer: AK2J, 10-Jul-2023 20:06:14 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Denver

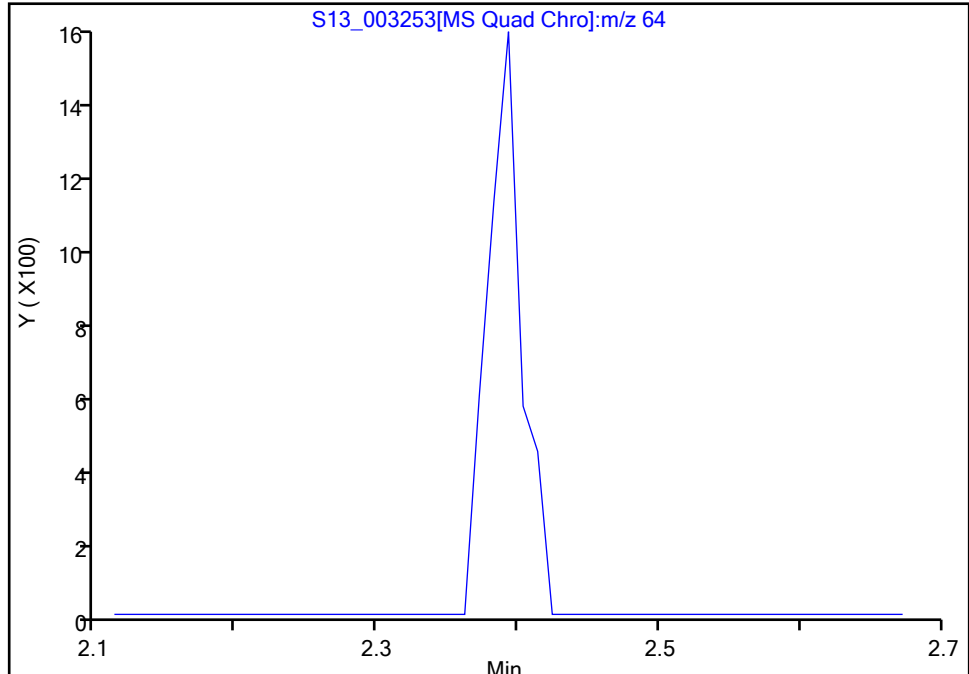
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
Injection Date: 08-Jul-2023 02:29:25 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

13 Chloroethane, CAS: 75-00-3

Signal: 1

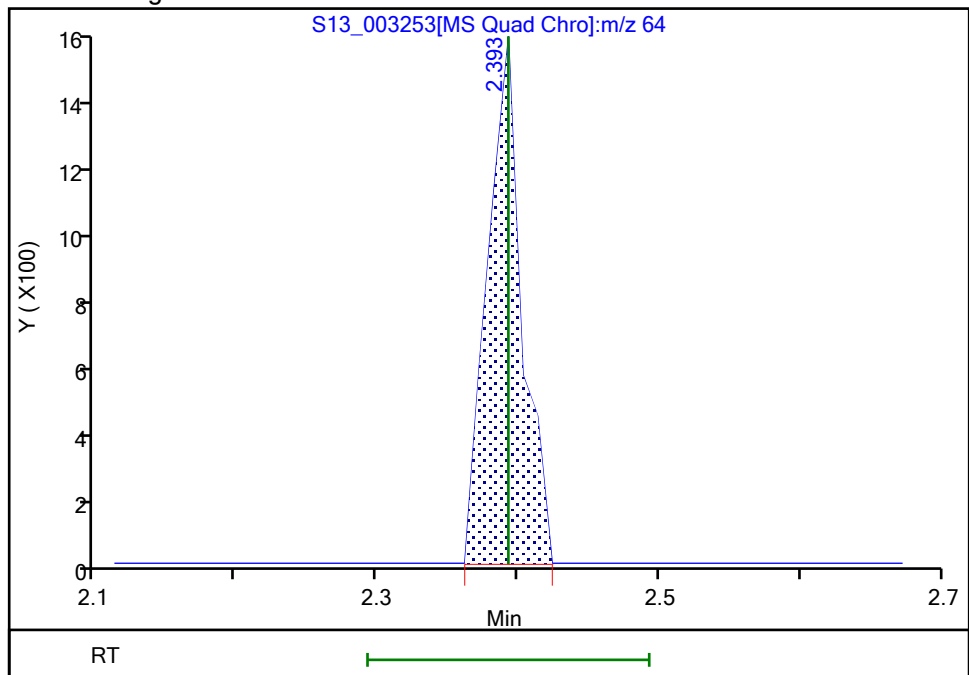
Not Detected
Expected RT: 2.39

Processing Integration Results



RT: 2.39
Area: 2656
Amount: 0.547036
Amount Units: ug/l

Manual Integration Results



Reviewer: AK2J, 10-Jul-2023 20:06:07 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Denver

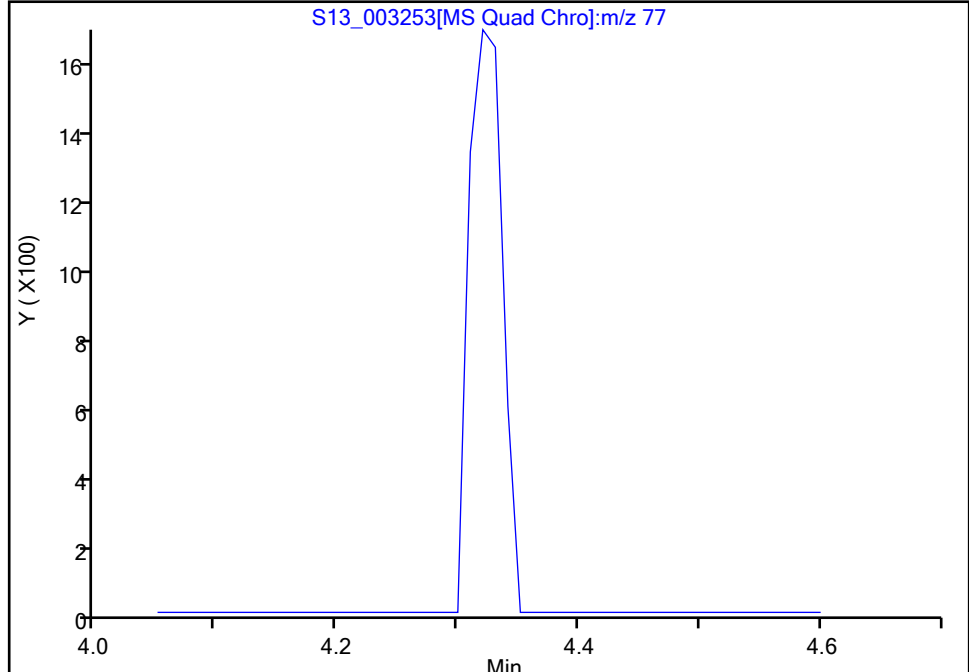
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
Injection Date: 08-Jul-2023 02:29:25 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

43 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

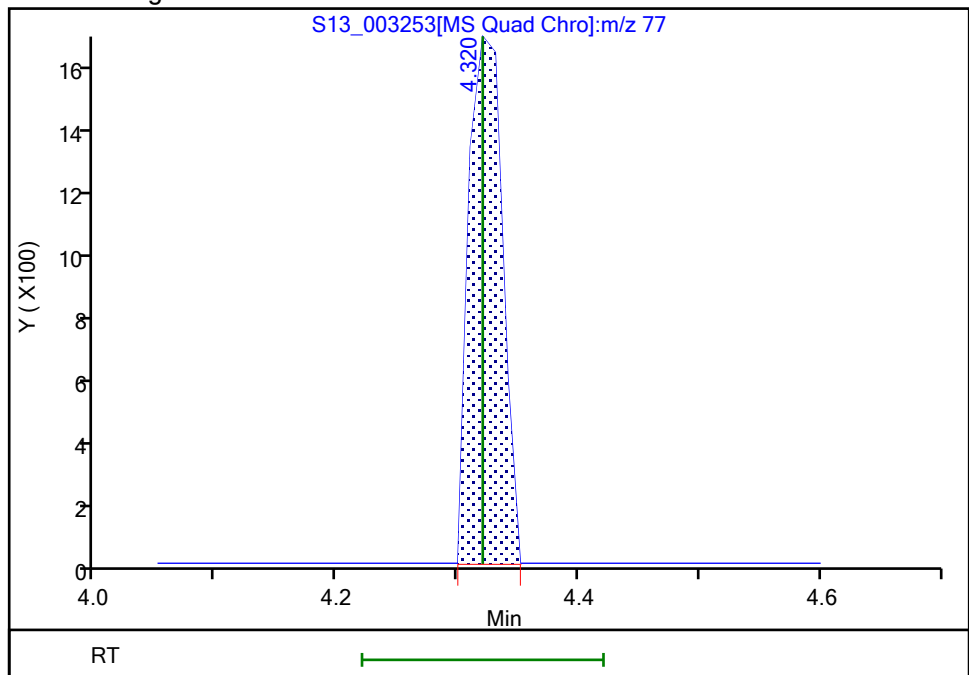
Not Detected
Expected RT: 4.32

Processing Integration Results



RT: 4.32
Area: 3141
Amount: 0.446186
Amount Units: ug/l

Manual Integration Results



Reviewer: AK2J, 10-Jul-2023 20:06:29 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Denver

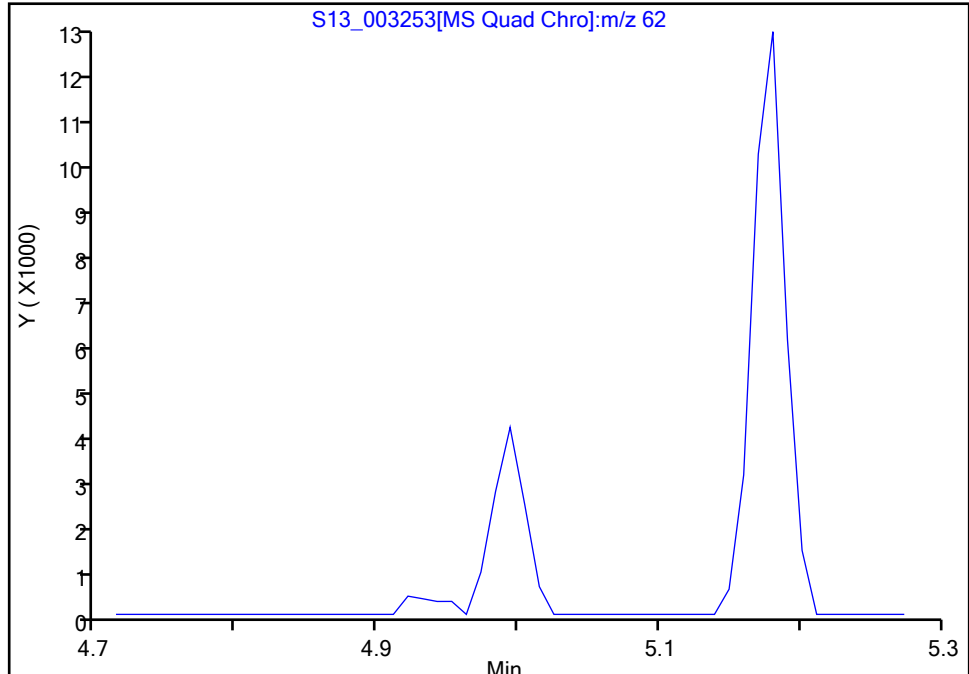
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
Injection Date: 08-Jul-2023 02:29:25 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

57 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

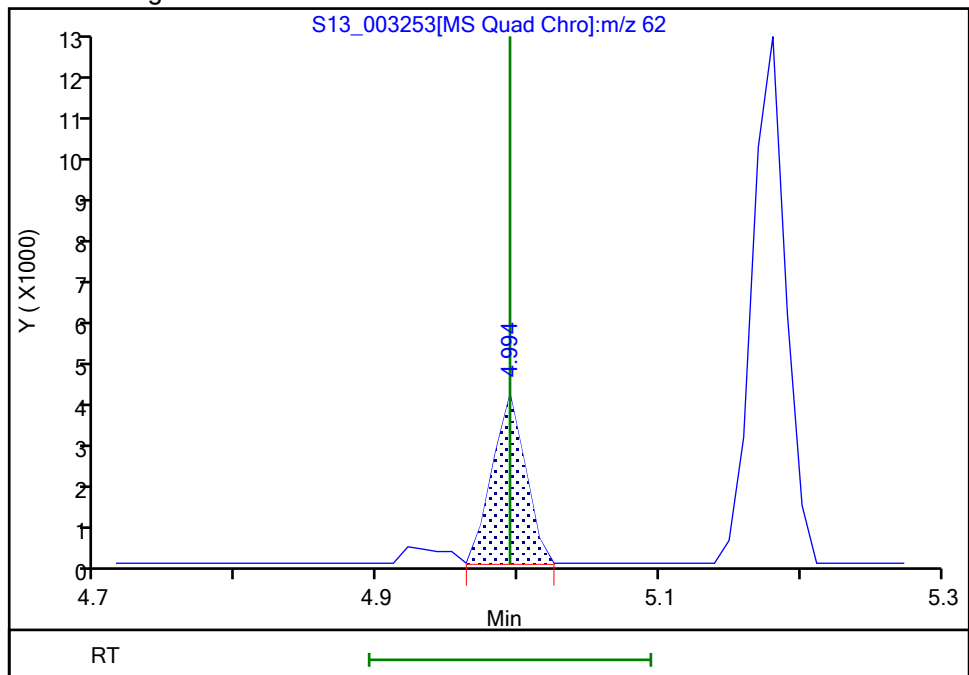
Not Detected
Expected RT: 4.99

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 6767
Amount: 0.633224
Amount Units: ug/l



Reviewer: AK2J, 10-Jul-2023 20:06:36 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Denver

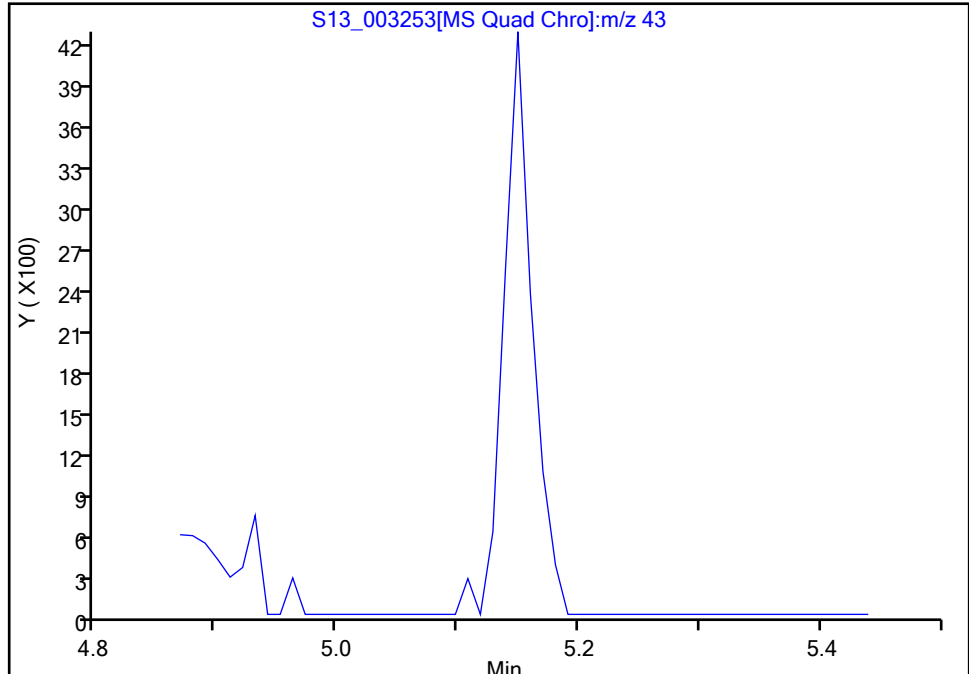
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
Injection Date: 08-Jul-2023 02:29:25 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

59 n-Heptane, CAS: 142-82-5

Signal: 1

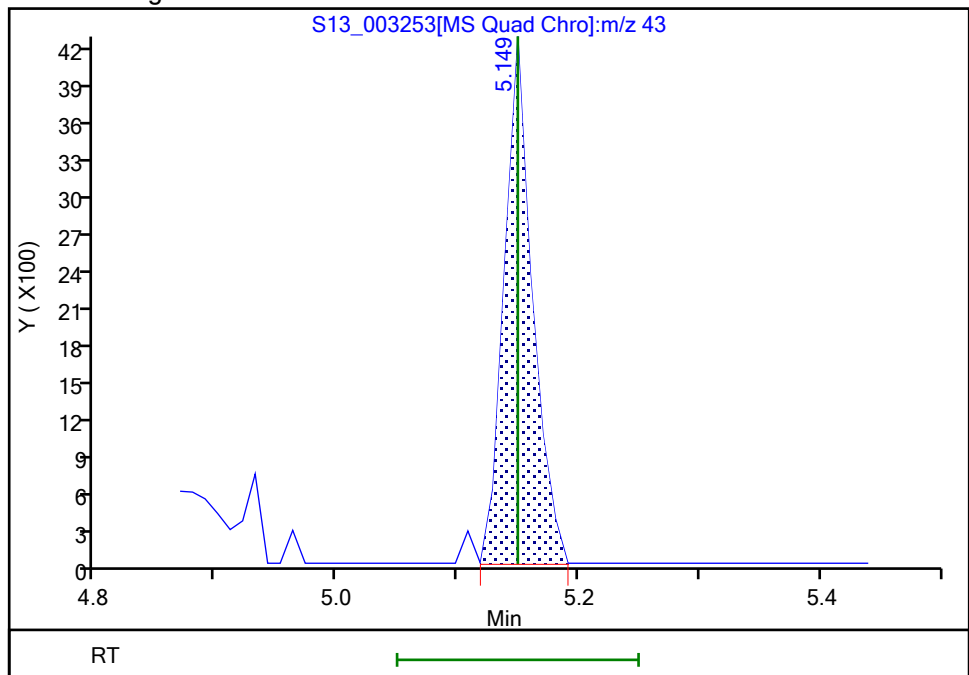
Not Detected
Expected RT: 5.15

Processing Integration Results



RT: 5.15
Area: 6956
Amount: 0.575526
Amount Units: ug/l

Manual Integration Results



Reviewer: AK2J, 10-Jul-2023 20:06:40 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Denver

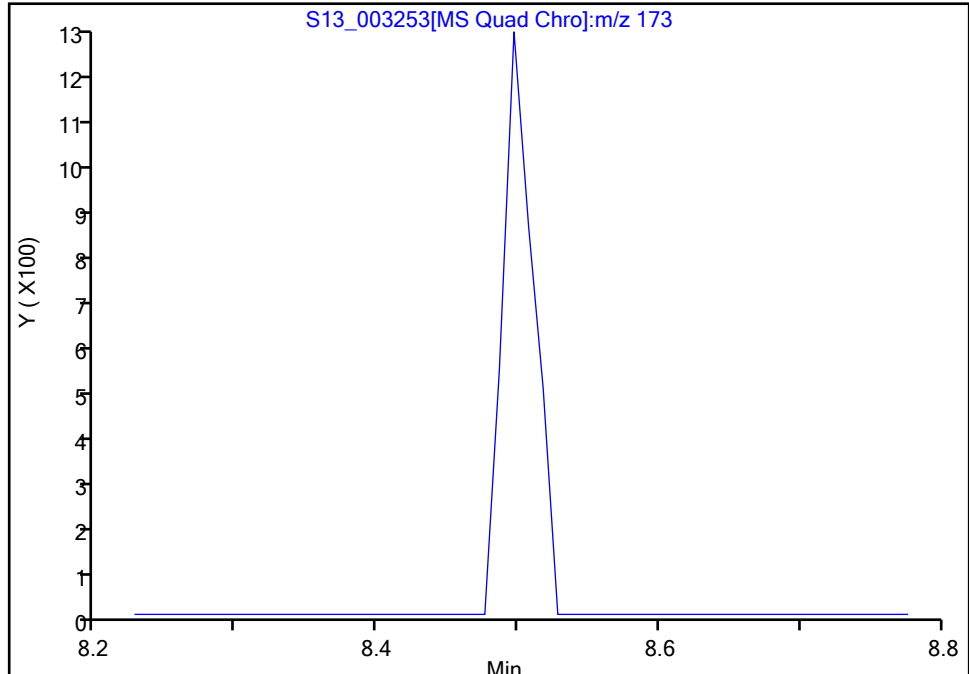
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
Injection Date: 08-Jul-2023 02:29:25 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

88 Bromoform, CAS: 75-25-2

Signal: 1

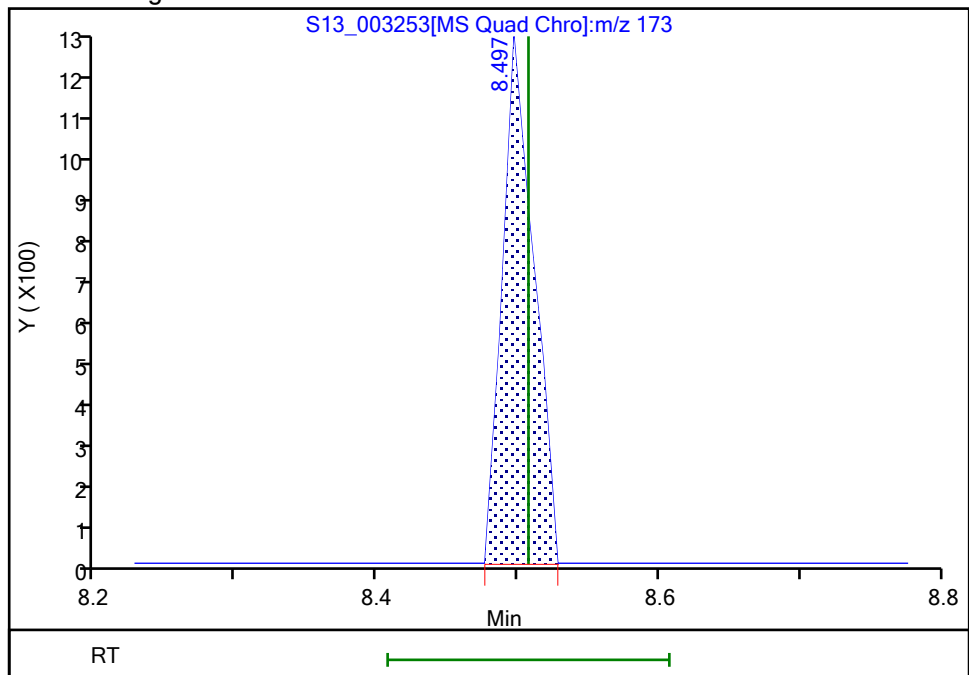
Not Detected
Expected RT: 8.51

Processing Integration Results



RT: 8.50
Area: 1859
Amount: 0.469624
Amount Units: ug/l

Manual Integration Results



Reviewer: AK2J, 10-Jul-2023 20:07:20 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Calibration

/ Dichlorodifluoromethane

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

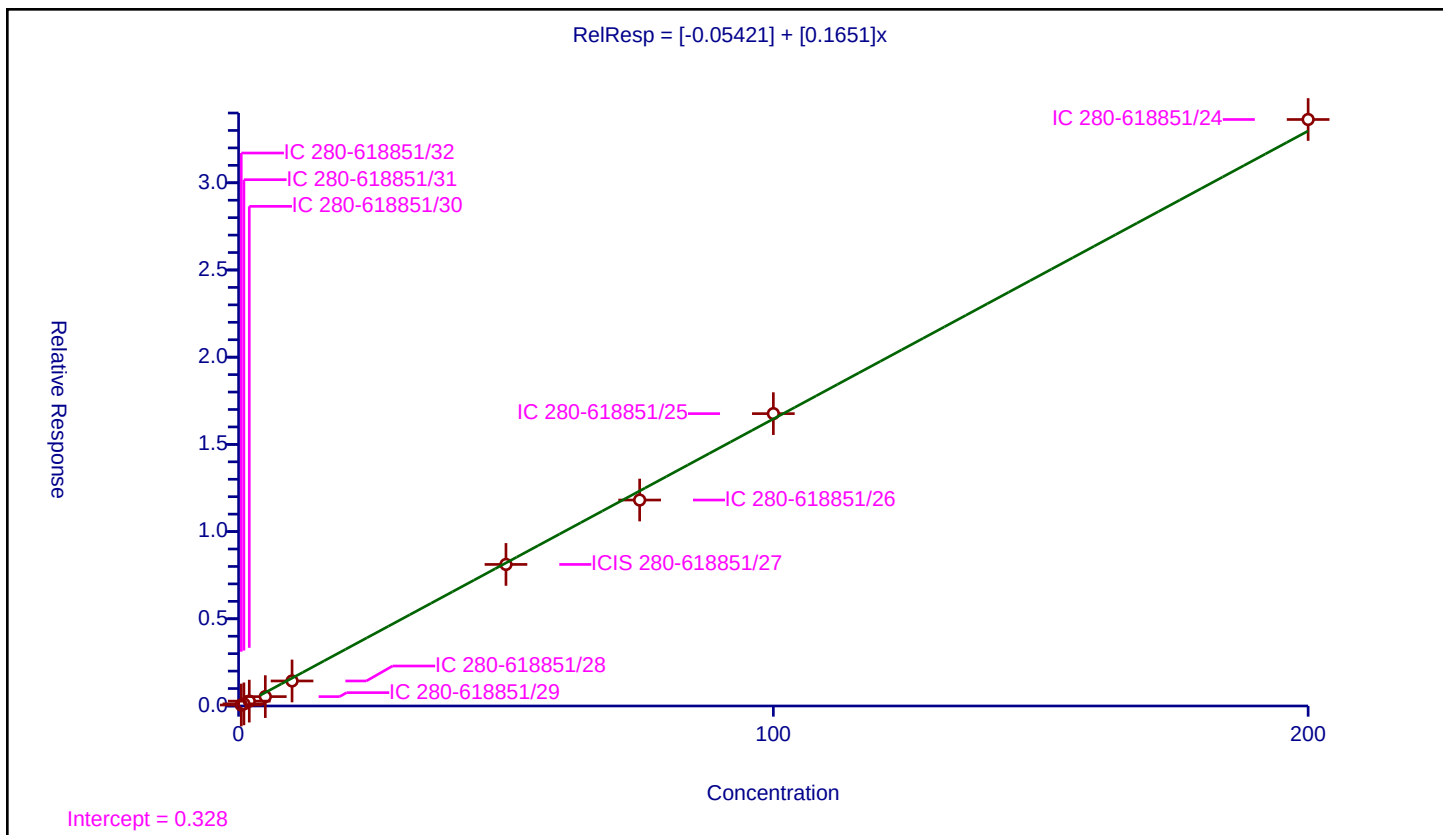
Curve Coefficients

Intercept: -0.05421
Slope: 0.1651

Error Coefficients

Standard Error: 491000
Relative Standard Error: 17.0
Correlation Coefficient: 0.995
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.055276	50.0	1471704.0	0.110552	Y
2	IC 280-618851/31	1.0	0.120838	50.0	1451943.0	0.120838	Y
3	IC 280-618851/30	2.0	0.279464	50.0	1413778.0	0.139732	Y
4	IC 280-618851/29	5.0	0.536706	50.0	1525415.0	0.107341	Y
5	IC 280-618851/28	10.0	1.434799	50.0	1549276.0	0.14348	Y
6	ICIS 280-618851/27	50.0	8.11695	50.0	1454826.0	0.162339	Y
7	IC 280-618851/26	75.0	11.808872	50.0	1514933.0	0.157452	Y
8	IC 280-618851/25	100.0	16.763858	50.0	1472531.0	0.167639	Y
9	IC 280-618851/24	200.0	33.62901	50.0	1667926.0	0.168145	Y



Calibration

/ Chloromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

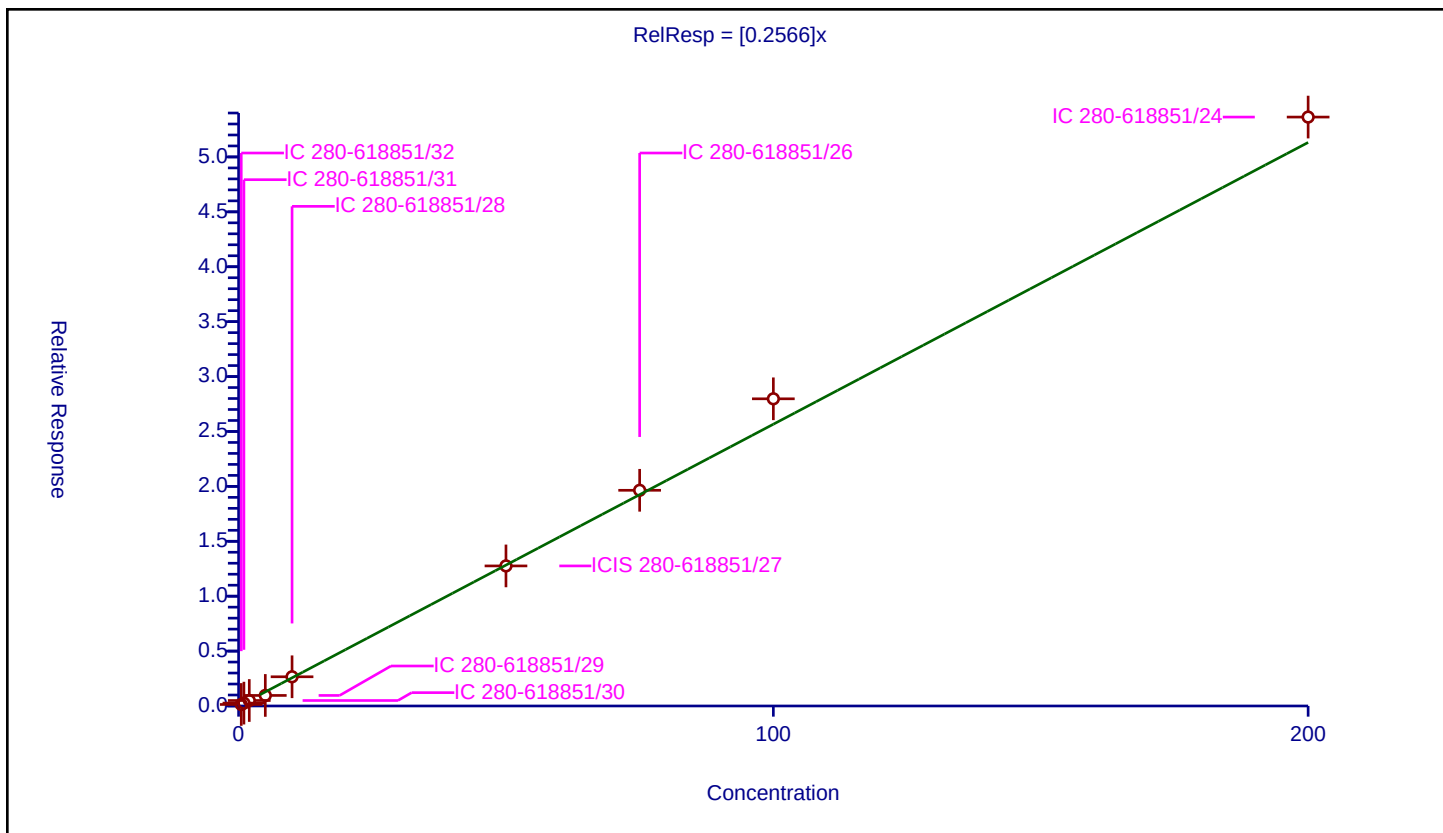
Curve Coefficients

Intercept: 0
Slope: 0.2566

Error Coefficients

Standard Error: 740000
Relative Standard Error: 10.1
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.137426	50.0	1471704.0	0.274851	Y
2	IC 280-618851/31	1.0	0.261339	50.0	1451943.0	0.261339	Y
3	IC 280-618851/30	2.0	0.500079	50.0	1413778.0	0.250039	Y
4	IC 280-618851/29	5.0	0.961312	50.0	1525415.0	0.192262	Y
5	IC 280-618851/28	10.0	2.659468	50.0	1549276.0	0.265947	Y
6	ICIS 280-618851/27	50.0	12.755855	50.0	1454826.0	0.255117	Y
7	IC 280-618851/26	75.0	19.643311	50.0	1514933.0	0.261911	Y
8	IC 280-618851/25	100.0	27.974216	50.0	1472531.0	0.279742	Y
9	IC 280-618851/24	200.0	53.629987	50.0	1667926.0	0.26815	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

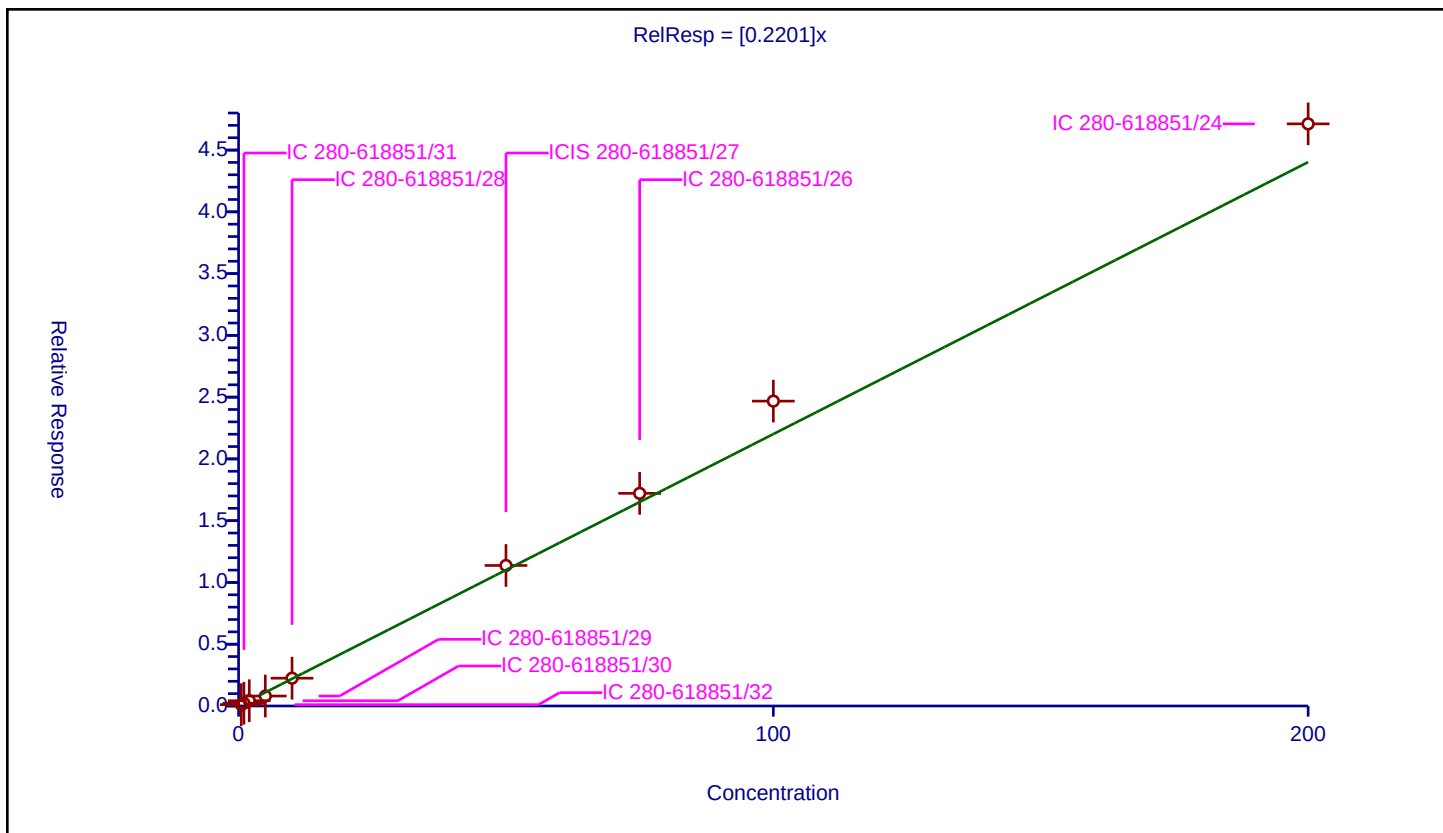
Curve Coefficients

Intercept: 0
Slope: 0.2201

Error Coefficients

Standard Error: 651000
Relative Standard Error: 11.0
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.109057	50.0	1471704.0	0.218115	Y
2	IC 280-618851/31	1.0	0.224355	50.0	1451943.0	0.224355	Y
3	IC 280-618851/30	2.0	0.426092	50.0	1413778.0	0.213046	Y
4	IC 280-618851/29	5.0	0.806207	50.0	1525415.0	0.161241	Y
5	IC 280-618851/28	10.0	2.249373	50.0	1549276.0	0.224937	Y
6	ICIS 280-618851/27	50.0	11.374316	50.0	1454826.0	0.227486	Y
7	IC 280-618851/26	75.0	17.212213	50.0	1514933.0	0.229496	Y
8	IC 280-618851/25	100.0	24.677681	50.0	1472531.0	0.246777	Y
9	IC 280-618851/24	200.0	47.122234	50.0	1667926.0	0.235611	Y



Calibration

/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

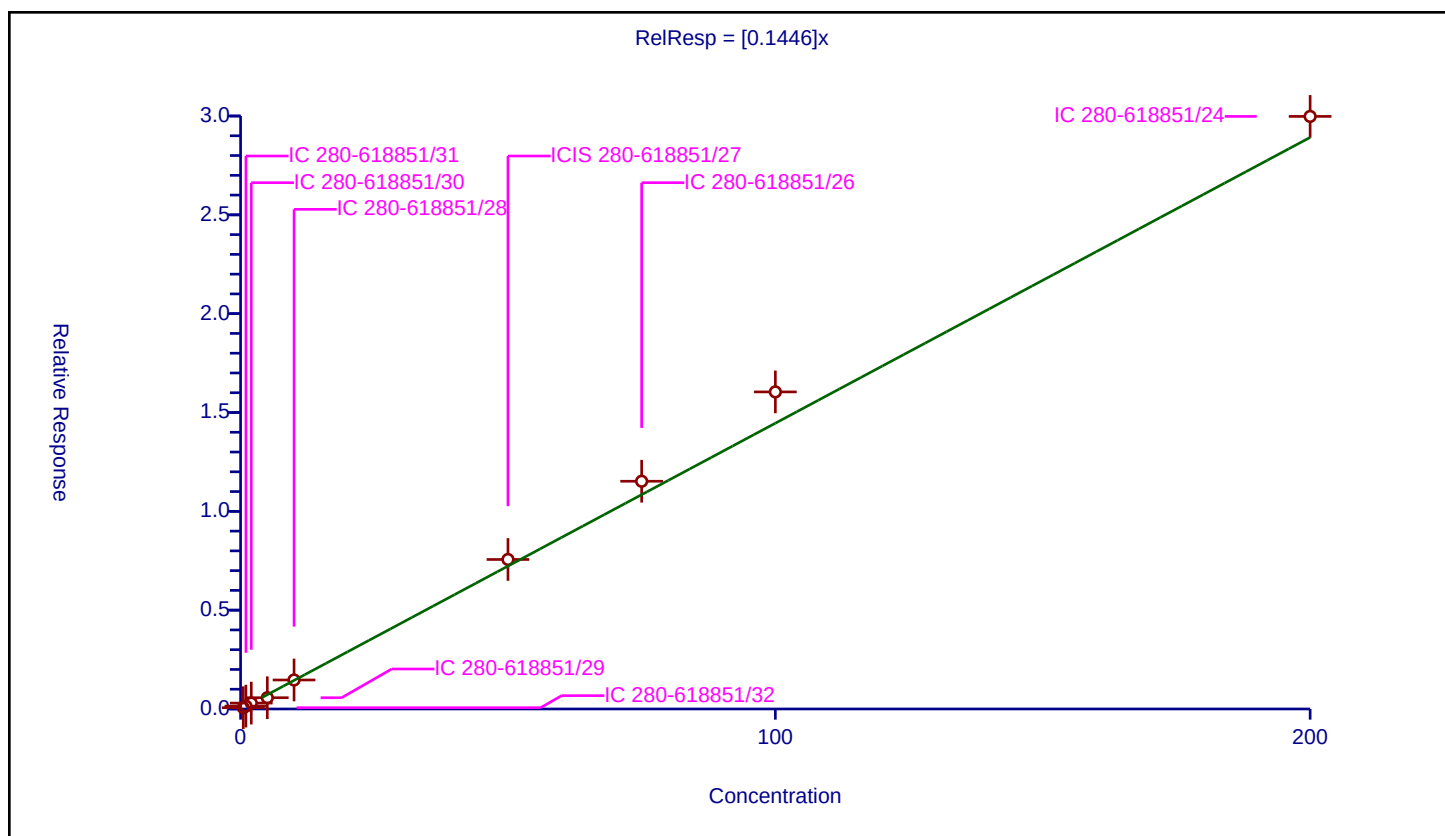
Curve Coefficients

Intercept: 0
Slope: 0.1446

Error Coefficients

Standard Error: 418000
Relative Standard Error: 9.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.065231	50.0	1471704.0	0.130461	Y
2	IC 280-618851/31	1.0	0.145116	50.0	1451943.0	0.145116	Y
3	IC 280-618851/30	2.0	0.299481	50.0	1413778.0	0.149741	Y
4	IC 280-618851/29	5.0	0.57014	50.0	1525415.0	0.114028	Y
5	IC 280-618851/28	10.0	1.467008	50.0	1549276.0	0.146701	Y
6	ICIS 280-618851/27	50.0	7.564479	50.0	1454826.0	0.15129	Y
7	IC 280-618851/26	75.0	11.521797	50.0	1514933.0	0.153624	Y
8	IC 280-618851/25	100.0	16.042073	50.0	1472531.0	0.160421	Y
9	IC 280-618851/24	200.0	29.979388	50.0	1667926.0	0.149897	Y



Calibration

/ Chloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

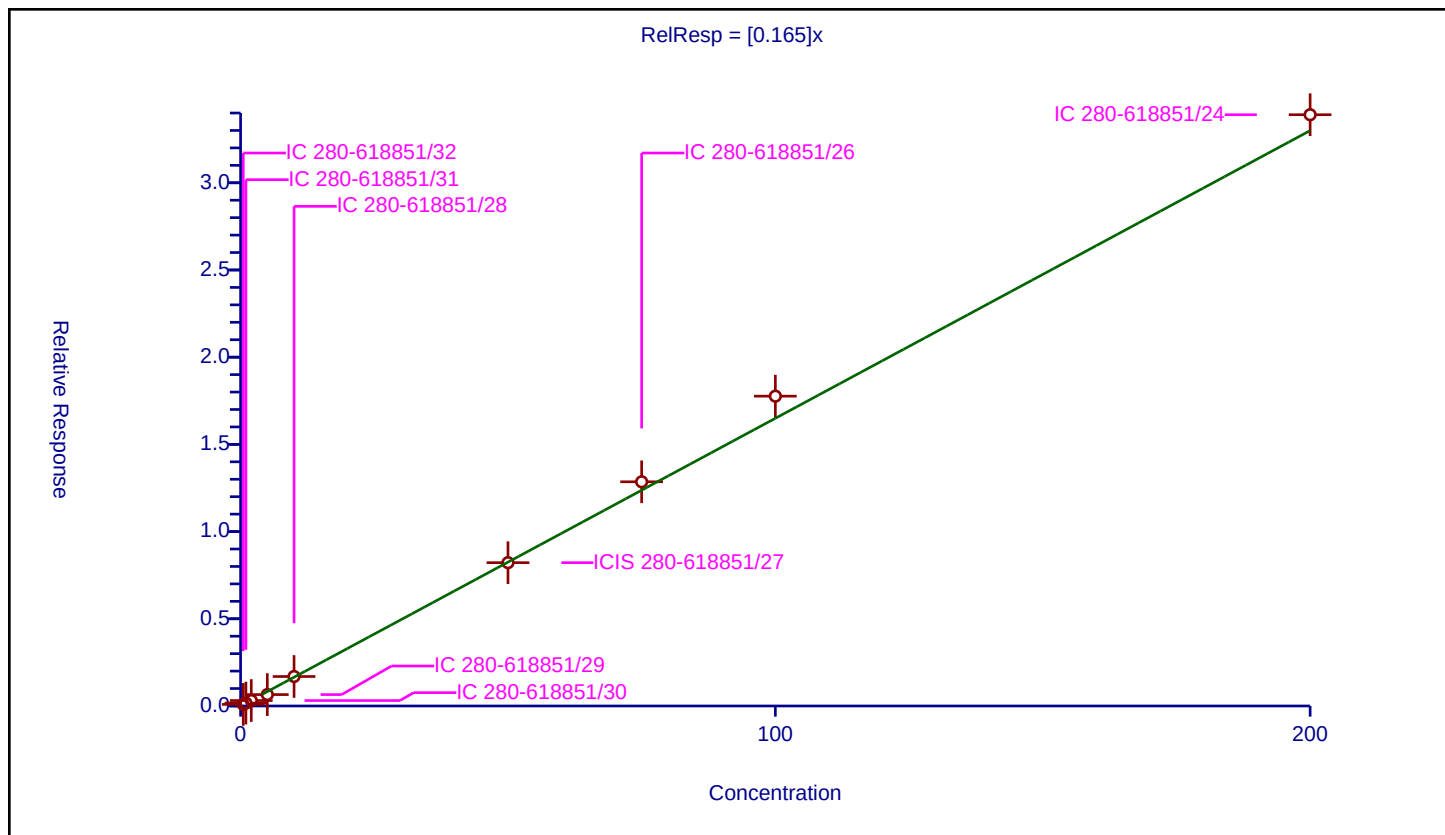
Curve Coefficients

Intercept: 0
 Slope: 0.165

Error Coefficients

Standard Error: 470000
 Relative Standard Error: 8.9
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.090236	50.0	1471704.0	0.180471	Y
2	IC 280-618851/31	1.0	0.165124	50.0	1451943.0	0.165124	Y
3	IC 280-618851/30	2.0	0.312779	50.0	1413778.0	0.156389	Y
4	IC 280-618851/29	5.0	0.653691	50.0	1525415.0	0.130738	Y
5	IC 280-618851/28	10.0	1.689596	50.0	1549276.0	0.16896	Y
6	ICIS 280-618851/27	50.0	8.217134	50.0	1454826.0	0.164343	Y
7	IC 280-618851/26	75.0	12.854958	50.0	1514933.0	0.171399	Y
8	IC 280-618851/25	100.0	17.764414	50.0	1472531.0	0.177644	Y
9	IC 280-618851/24	200.0	33.902793	50.0	1667926.0	0.169514	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

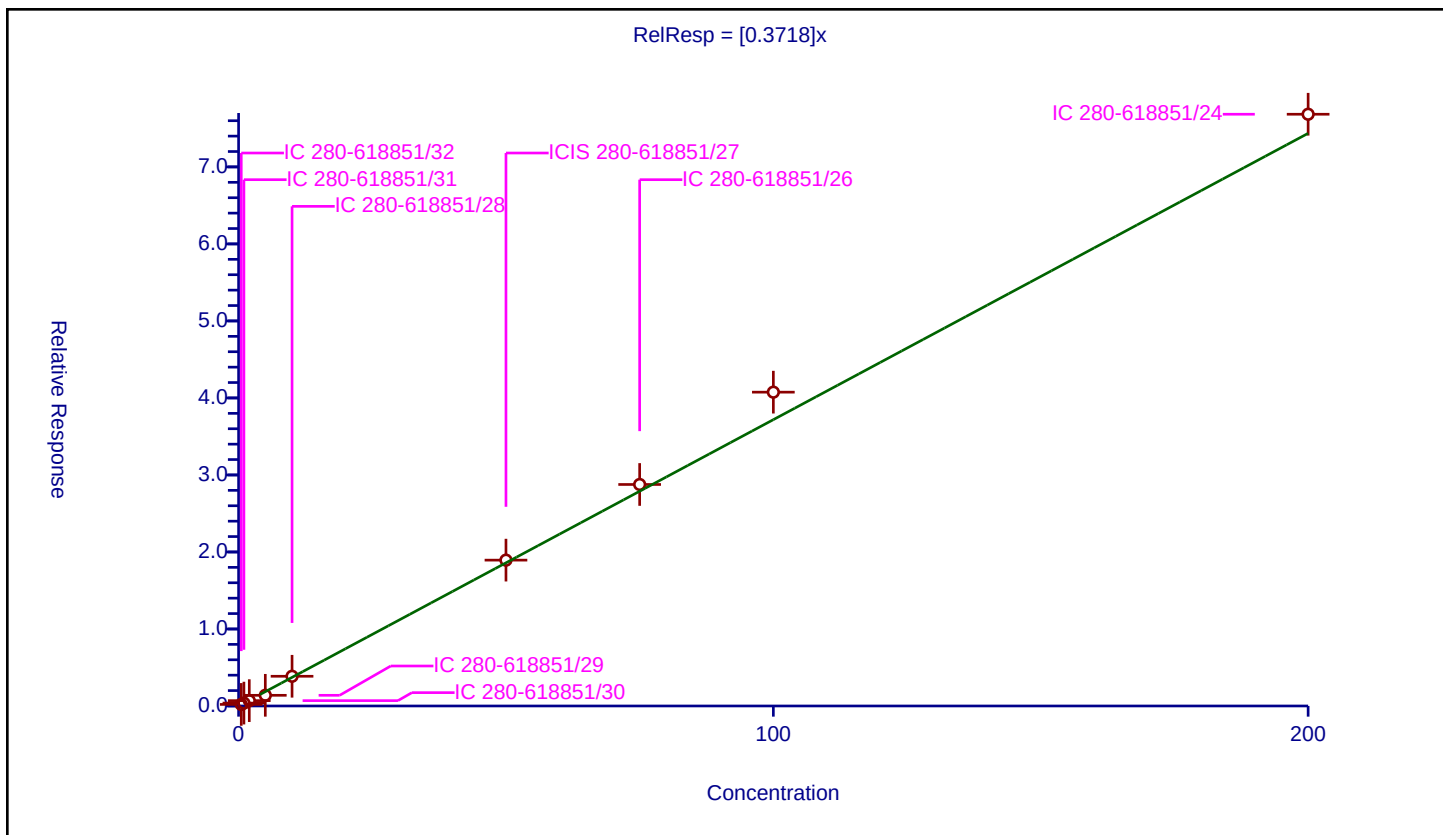
Curve Coefficients

Intercept: 0
 Slope: 0.3718

Error Coefficients

Standard Error: 1070000
 Relative Standard Error: 10.6
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.203472	50.0	1471704.0	0.406943	Y
2	IC 280-618851/31	1.0	0.37467	50.0	1451943.0	0.37467	Y
3	IC 280-618851/30	2.0	0.693779	50.0	1413778.0	0.34689	Y
4	IC 280-618851/29	5.0	1.388442	50.0	1525415.0	0.277688	Y
5	IC 280-618851/28	10.0	3.859577	50.0	1549276.0	0.385958	Y
6	ICIS 280-618851/27	50.0	18.939172	50.0	1454826.0	0.378783	Y
7	IC 280-618851/26	75.0	28.765134	50.0	1514933.0	0.383535	Y
8	IC 280-618851/25	100.0	40.752317	50.0	1472531.0	0.407523	Y
9	IC 280-618851/24	200.0	76.842348	50.0	1667926.0	0.384212	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

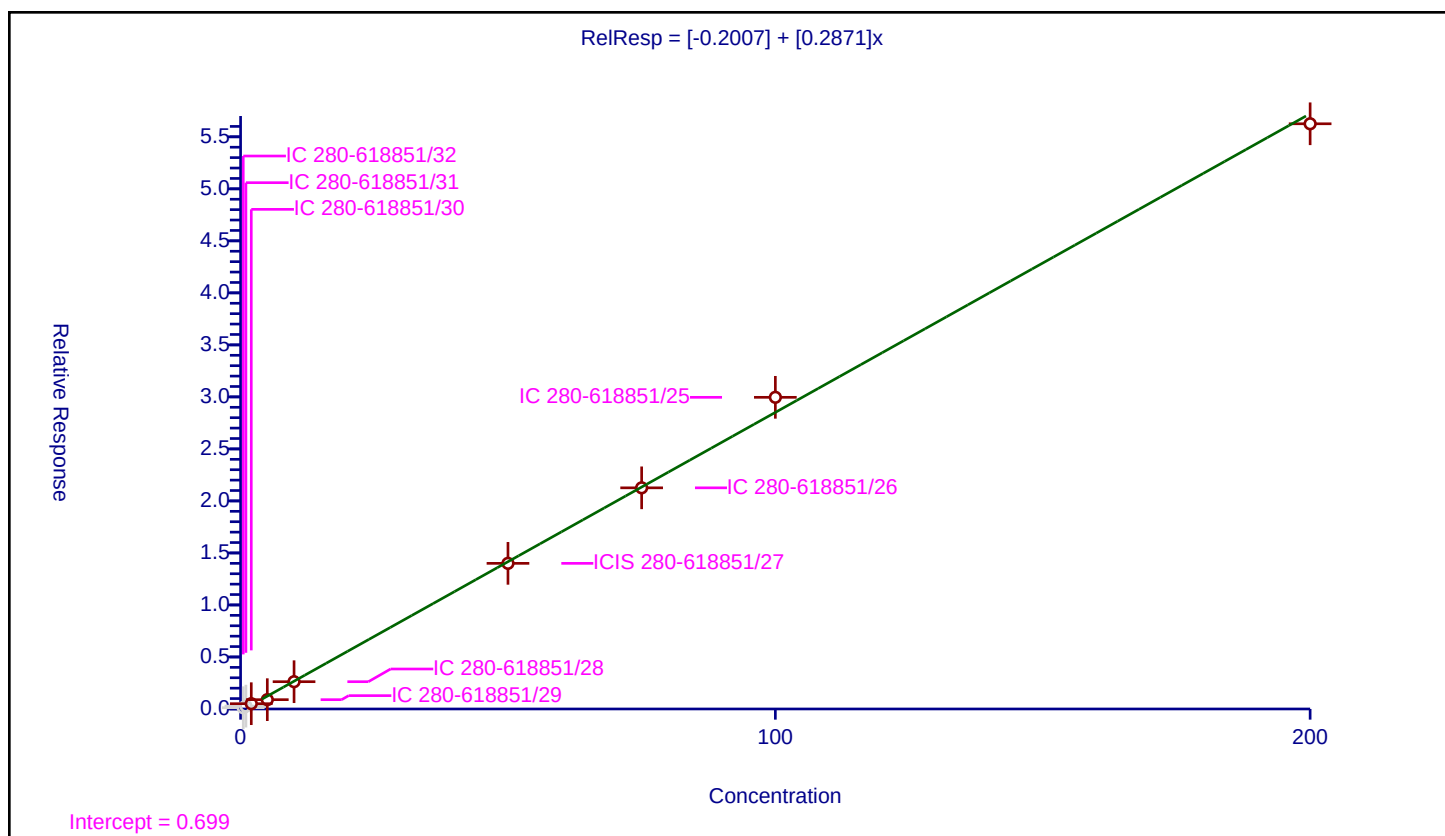
Curve Coefficients

Intercept: -0.2007
 Slope: 0.2871

Error Coefficients

Standard Error: 989000
 Relative Standard Error: 15.1
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.12105	50.0	1471704.0	0.2421	N
2	IC 280-618851/31	1.0	0.275183	50.0	1451943.0	0.275183	N
3	IC 280-618851/30	2.0	0.50793	50.0	1413778.0	0.253965	Y
4	IC 280-618851/29	5.0	0.895199	50.0	1525415.0	0.17904	Y
5	IC 280-618851/28	10.0	2.622418	50.0	1549276.0	0.262242	Y
6	ICIS 280-618851/27	50.0	13.998959	50.0	1454826.0	0.279979	Y
7	IC 280-618851/26	75.0	21.260181	50.0	1514933.0	0.283469	Y
8	IC 280-618851/25	100.0	29.959879	50.0	1472531.0	0.299599	Y
9	IC 280-618851/24	200.0	56.254384	50.0	1667926.0	0.281272	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

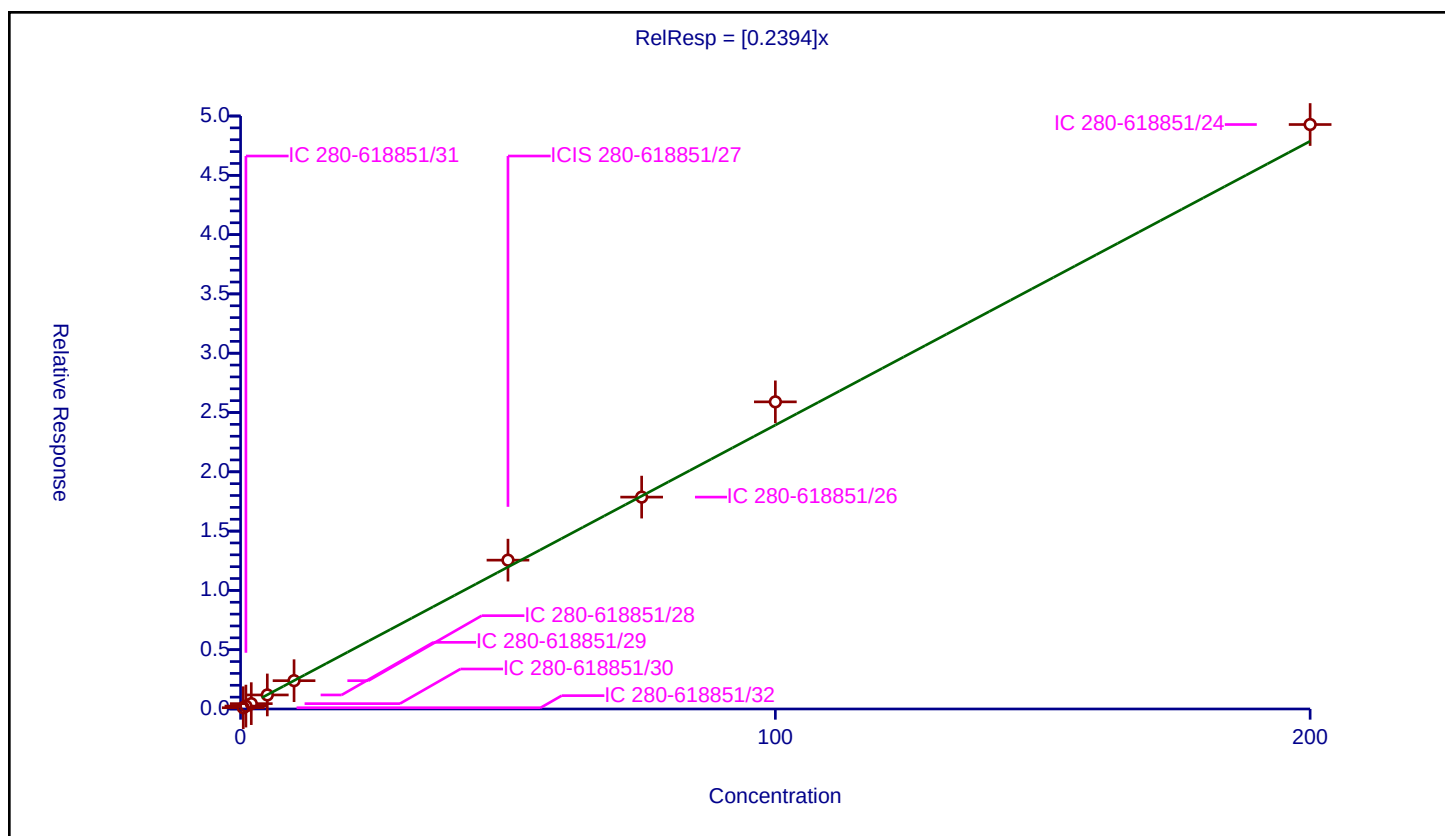
Curve Coefficients

Intercept: 0
Slope: 0.2394

Error Coefficients

Standard Error: 682000
Relative Standard Error: 5.6
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.107359	50.0	1471704.0	0.214717	Y
2	IC 280-618851/31	1.0	0.244534	50.0	1451943.0	0.244534	Y
3	IC 280-618851/30	2.0	0.450318	50.0	1413778.0	0.225159	Y
4	IC 280-618851/29	5.0	1.183743	50.0	1525415.0	0.236749	Y
5	IC 280-618851/28	10.0	2.387212	50.0	1549276.0	0.238721	Y
6	ICIS 280-618851/27	50.0	12.549954	50.0	1454826.0	0.250999	Y
7	IC 280-618851/26	75.0	17.865807	50.0	1514933.0	0.238211	Y
8	IC 280-618851/25	100.0	25.898572	50.0	1472531.0	0.258986	Y
9	IC 280-618851/24	200.0	49.281623	50.0	1667926.0	0.246408	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

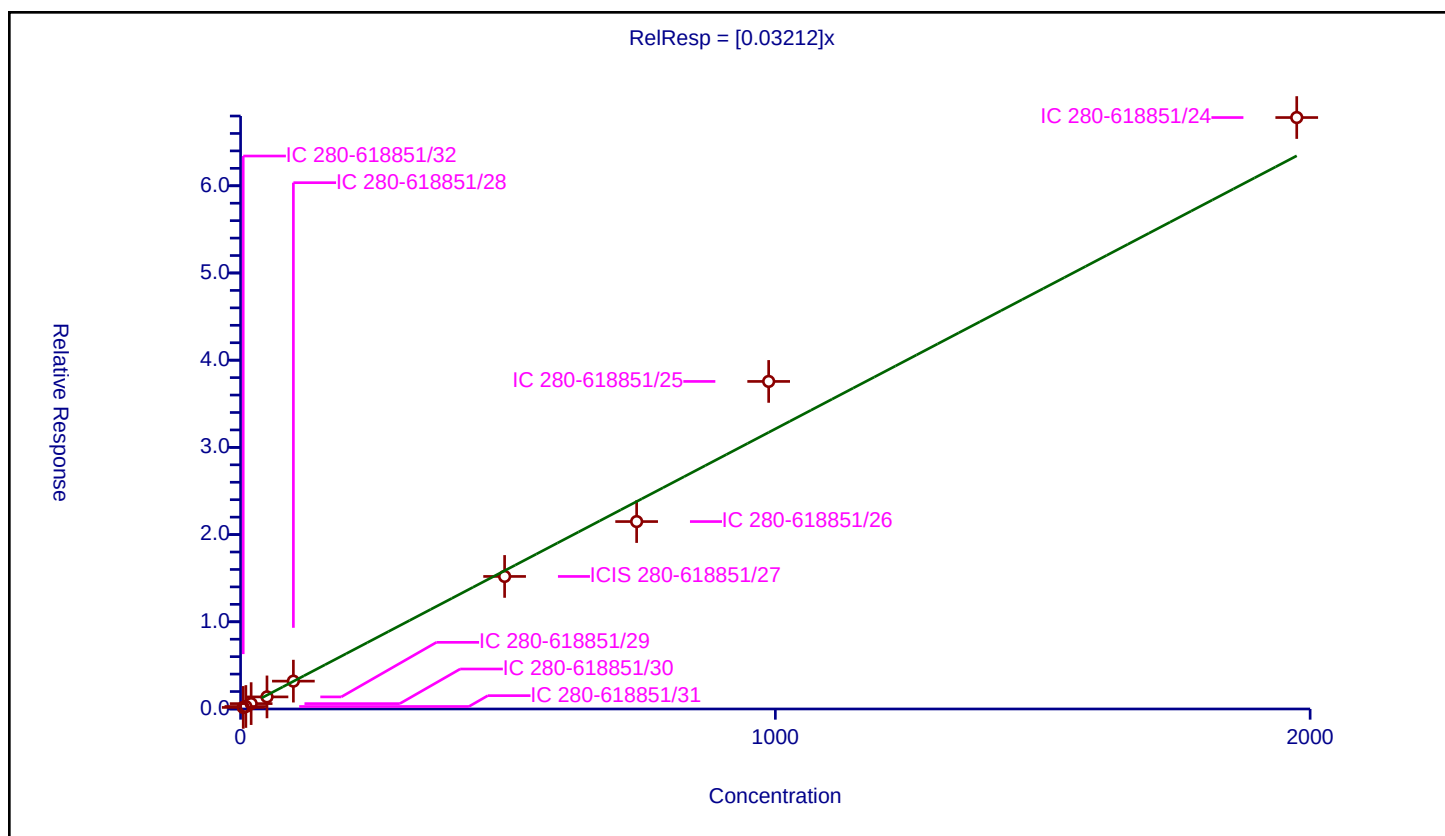
Curve Coefficients

Intercept: 0
Slope: 0.03212

Error Coefficients

Standard Error: 934000
Relative Standard Error: 10.8
Correlation Coefficient: 0.992
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	4.9375	0.179316	50.0	1471704.0	0.036317	Y
2	IC 280-618851/31	9.875	0.285204	50.0	1451943.0	0.028881	Y
3	IC 280-618851/30	19.75	0.617247	50.0	1413778.0	0.031253	Y
4	IC 280-618851/29	49.375	1.387327	50.0	1525415.0	0.028098	Y
5	IC 280-618851/28	98.75	3.194202	50.0	1549276.0	0.032346	Y
6	ICIS 280-618851/27	493.75	15.201268	50.0	1454826.0	0.030787	Y
7	IC 280-618851/26	740.625	21.494152	50.0	1514933.0	0.029022	Y
8	IC 280-618851/25	987.5	37.564201	50.0	1472531.0	0.03804	Y
9	IC 280-618851/24	1975.0	67.826211	50.0	1667926.0	0.034342	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

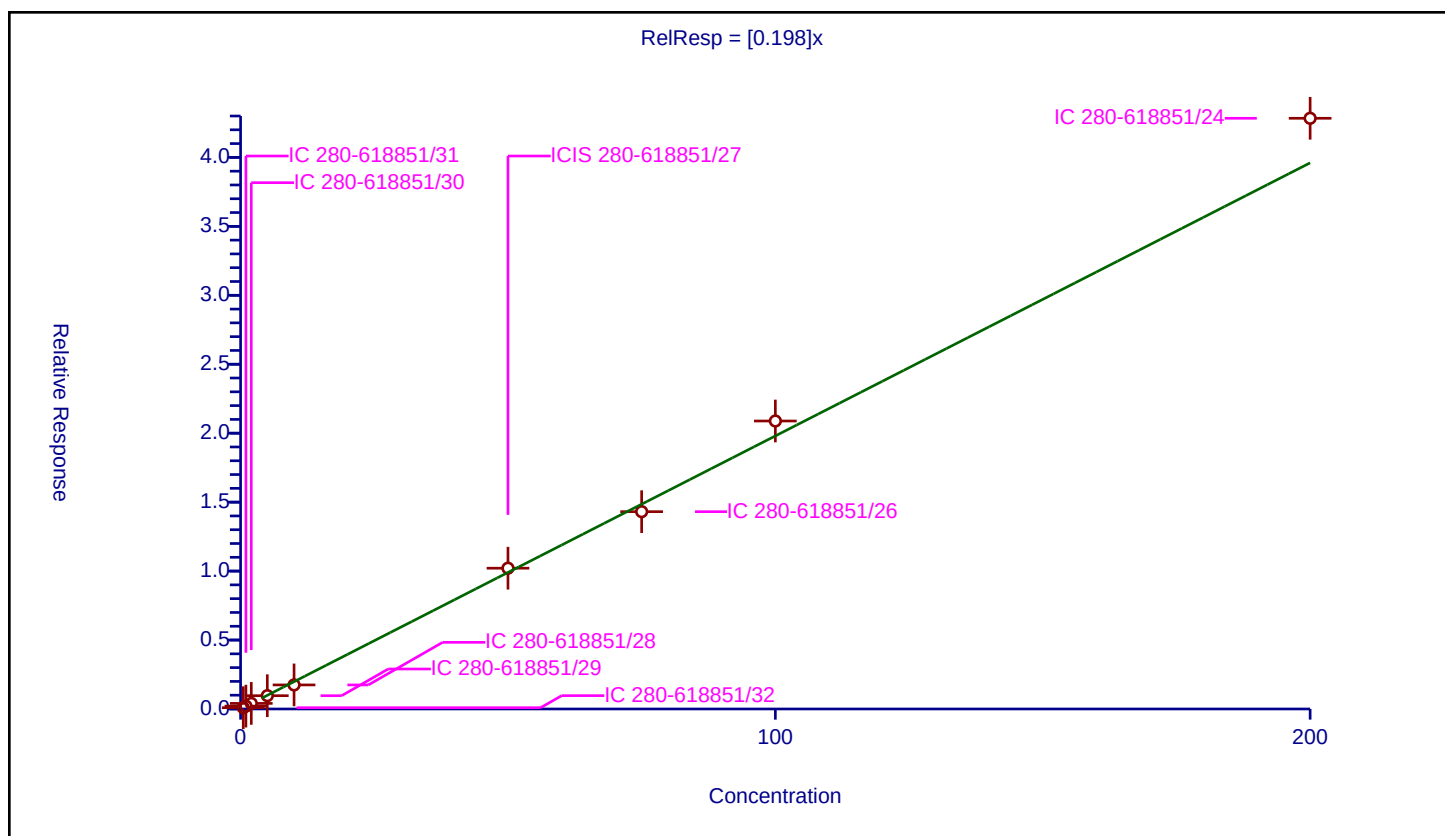
Curve Coefficients

Intercept: 0
Slope: 0.198

Error Coefficients

Standard Error: 581000
Relative Standard Error: 6.4
Correlation Coefficient: 0.992
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.093395	50.0	1471704.0	0.18679	Y
2	IC 280-618851/31	1.0	0.207549	50.0	1451943.0	0.207549	Y
3	IC 280-618851/30	2.0	0.404837	50.0	1413778.0	0.202419	Y
4	IC 280-618851/29	5.0	0.963967	50.0	1525415.0	0.192793	Y
5	IC 280-618851/28	10.0	1.745751	50.0	1549276.0	0.174575	Y
6	ICIS 280-618851/27	50.0	10.210018	50.0	1454826.0	0.2042	Y
7	IC 280-618851/26	75.0	14.309016	50.0	1514933.0	0.190787	Y
8	IC 280-618851/25	100.0	20.883669	50.0	1472531.0	0.208837	Y
9	IC 280-618851/24	200.0	42.834844	50.0	1667926.0	0.214174	Y



Calibration

/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

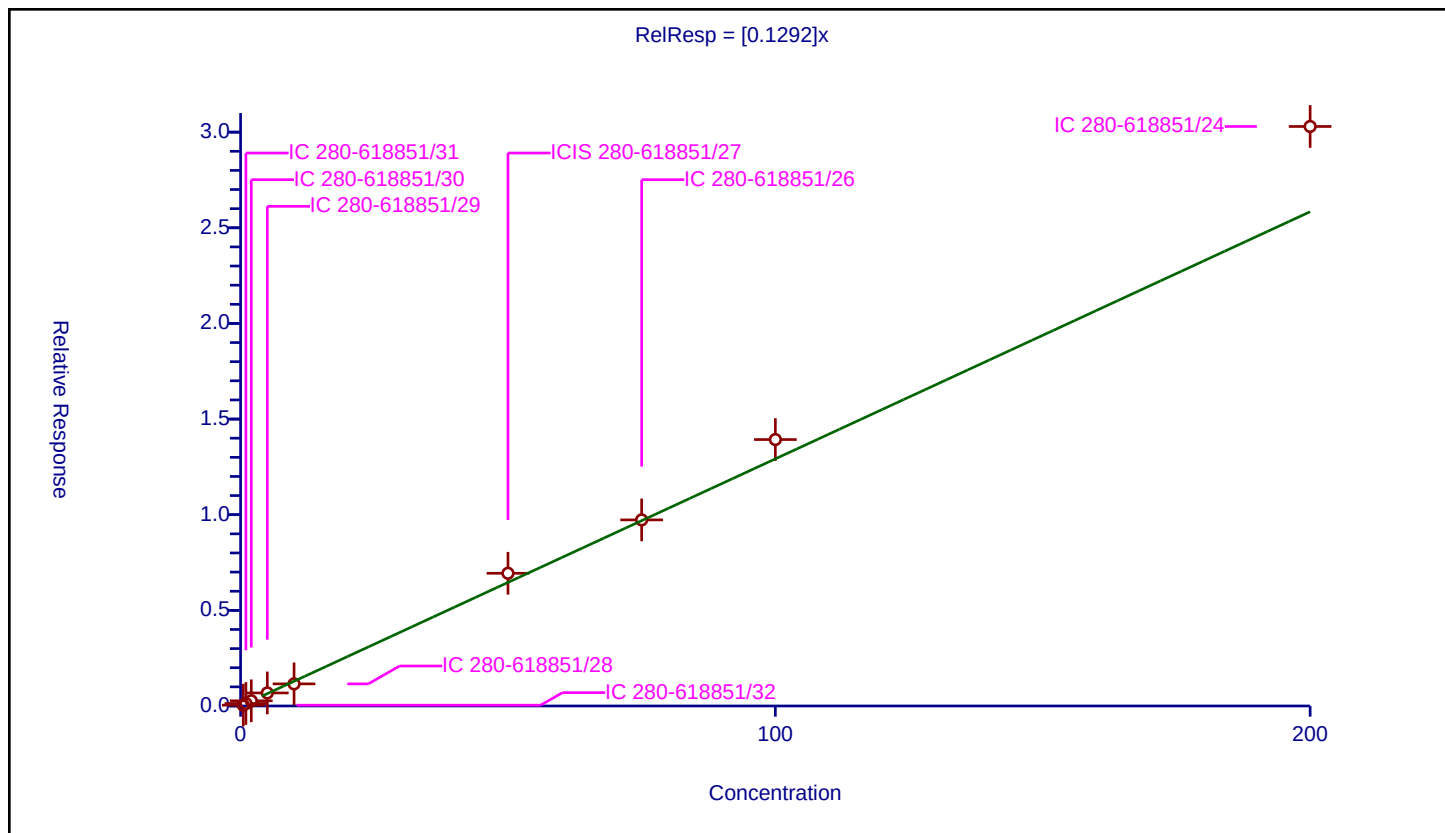
Curve Coefficients

Intercept: 0
Slope: 0.1292

Error Coefficients

Standard Error: 406000
Relative Standard Error: 14.9
Correlation Coefficient: 0.988
Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.042366	50.0	1471704.0	0.084732	Y
2	IC 280-618851/31	1.0	0.130928	50.0	1451943.0	0.130928	Y
3	IC 280-618851/30	2.0	0.271577	50.0	1413778.0	0.135789	Y
4	IC 280-618851/29	5.0	0.681782	50.0	1525415.0	0.136356	Y
5	IC 280-618851/28	10.0	1.156863	50.0	1549276.0	0.115686	Y
6	ICIS 280-618851/27	50.0	6.937324	50.0	1454826.0	0.138746	Y
7	IC 280-618851/26	75.0	9.728483	50.0	1514933.0	0.129713	Y
8	IC 280-618851/25	100.0	13.929826	50.0	1472531.0	0.139298	Y
9	IC 280-618851/24	200.0	30.295379	50.0	1667926.0	0.151477	Y



Calibration

/ Acetone

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

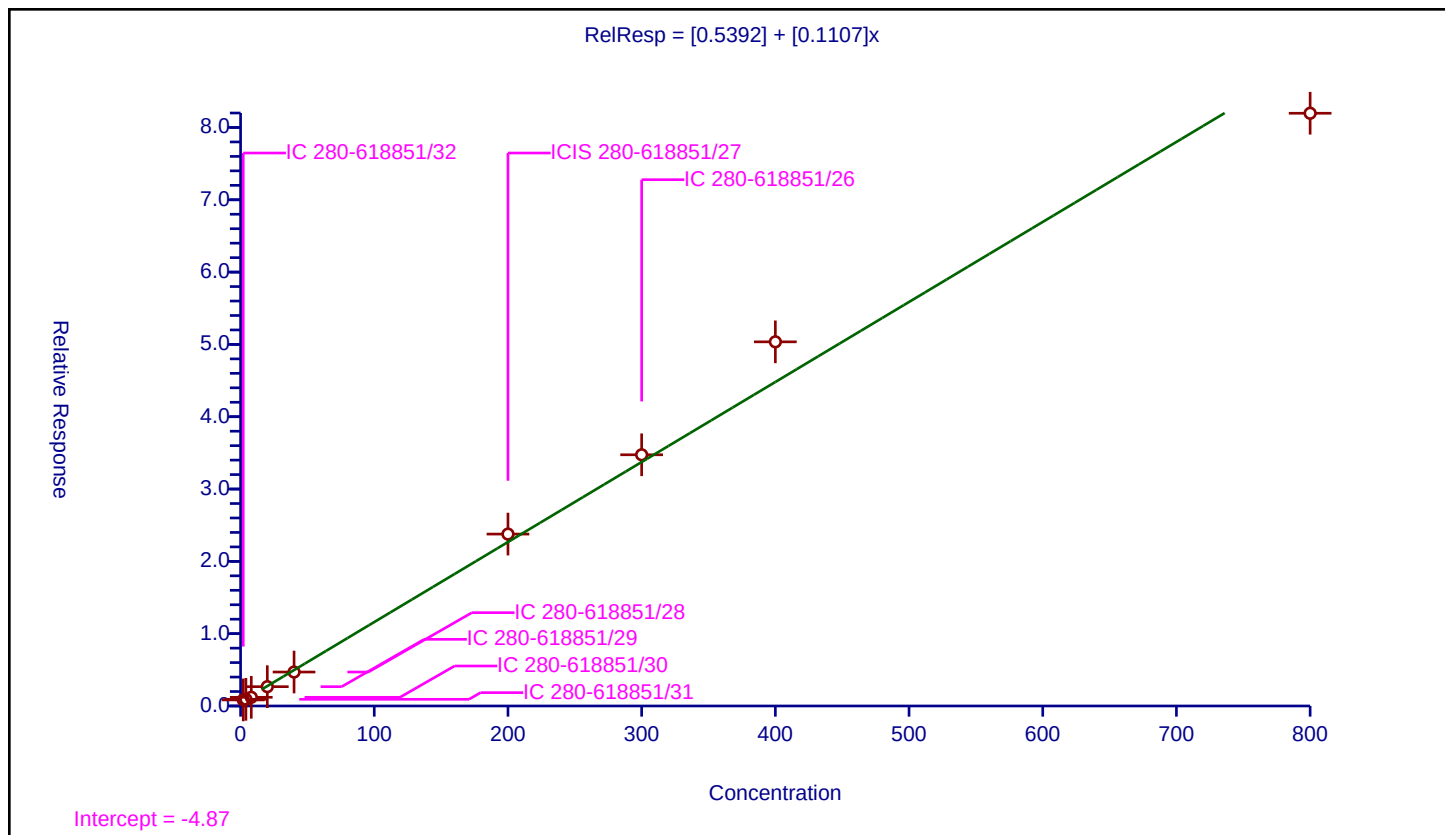
Curve Coefficients

Intercept: 0.5392
Slope: 0.1107

Error Coefficients

Standard Error: 1270000
Relative Standard Error: 18.5
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	2.0	0.839469	50.0	1471704.0	0.419735	Y
2	IC 280-618851/31	4.0	0.923246	50.0	1451943.0	0.230811	Y
3	IC 280-618851/30	8.0	1.200931	50.0	1413778.0	0.150116	Y
4	IC 280-618851/29	20.0	2.671306	50.0	1525415.0	0.133565	Y
5	IC 280-618851/28	40.0	4.697517	50.0	1549276.0	0.117438	Y
6	ICIS 280-618851/27	200.0	23.770918	50.0	1454826.0	0.118855	Y
7	IC 280-618851/26	300.0	34.739589	50.0	1514933.0	0.115799	Y
8	IC 280-618851/25	400.0	50.35731	50.0	1472531.0	0.125893	Y
9	IC 280-618851/24	800.0	81.965777	50.0	1667926.0	0.102457	Y



Calibration

/ Iodomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

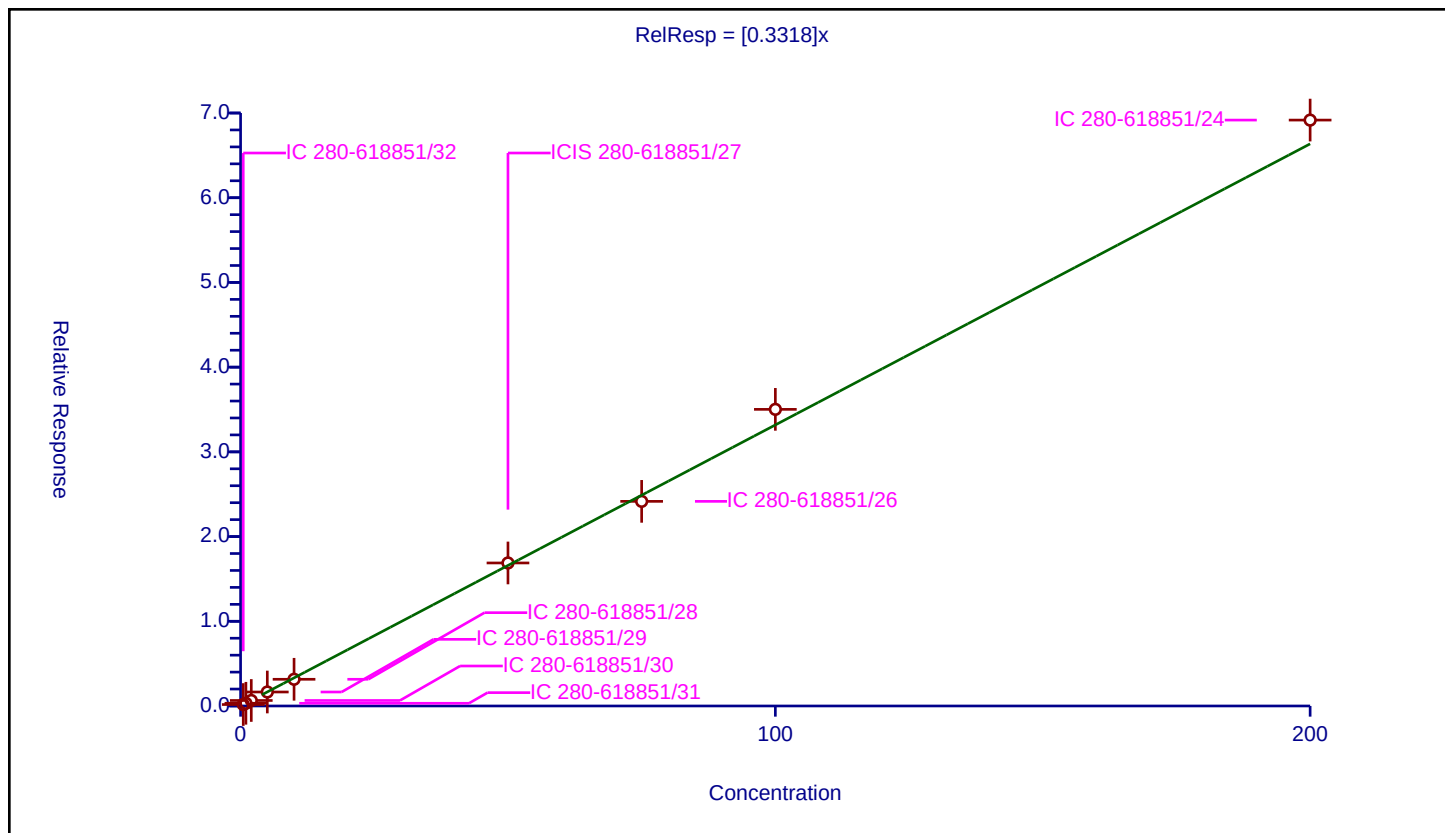
Curve Coefficients

Intercept: 0
 Slope: 0.3318

Error Coefficients

Standard Error: 947000
 Relative Standard Error: 3.8
 Correlation Coefficient: 0.995
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.17089	50.0	1471704.0	0.341781	Y
2	IC 280-618851/31	1.0	0.318194	50.0	1451943.0	0.318194	Y
3	IC 280-618851/30	2.0	0.649925	50.0	1413778.0	0.324963	Y
4	IC 280-618851/29	5.0	1.651747	50.0	1525415.0	0.330349	Y
5	IC 280-618851/28	10.0	3.151311	50.0	1549276.0	0.315131	Y
6	ICIS 280-618851/27	50.0	16.882638	50.0	1454826.0	0.337653	Y
7	IC 280-618851/26	75.0	24.154765	50.0	1514933.0	0.322064	Y
8	IC 280-618851/25	100.0	35.015222	50.0	1472531.0	0.350152	Y
9	IC 280-618851/24	200.0	69.16419	50.0	1667926.0	0.345821	Y



Calibration

/ Carbon disulfide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

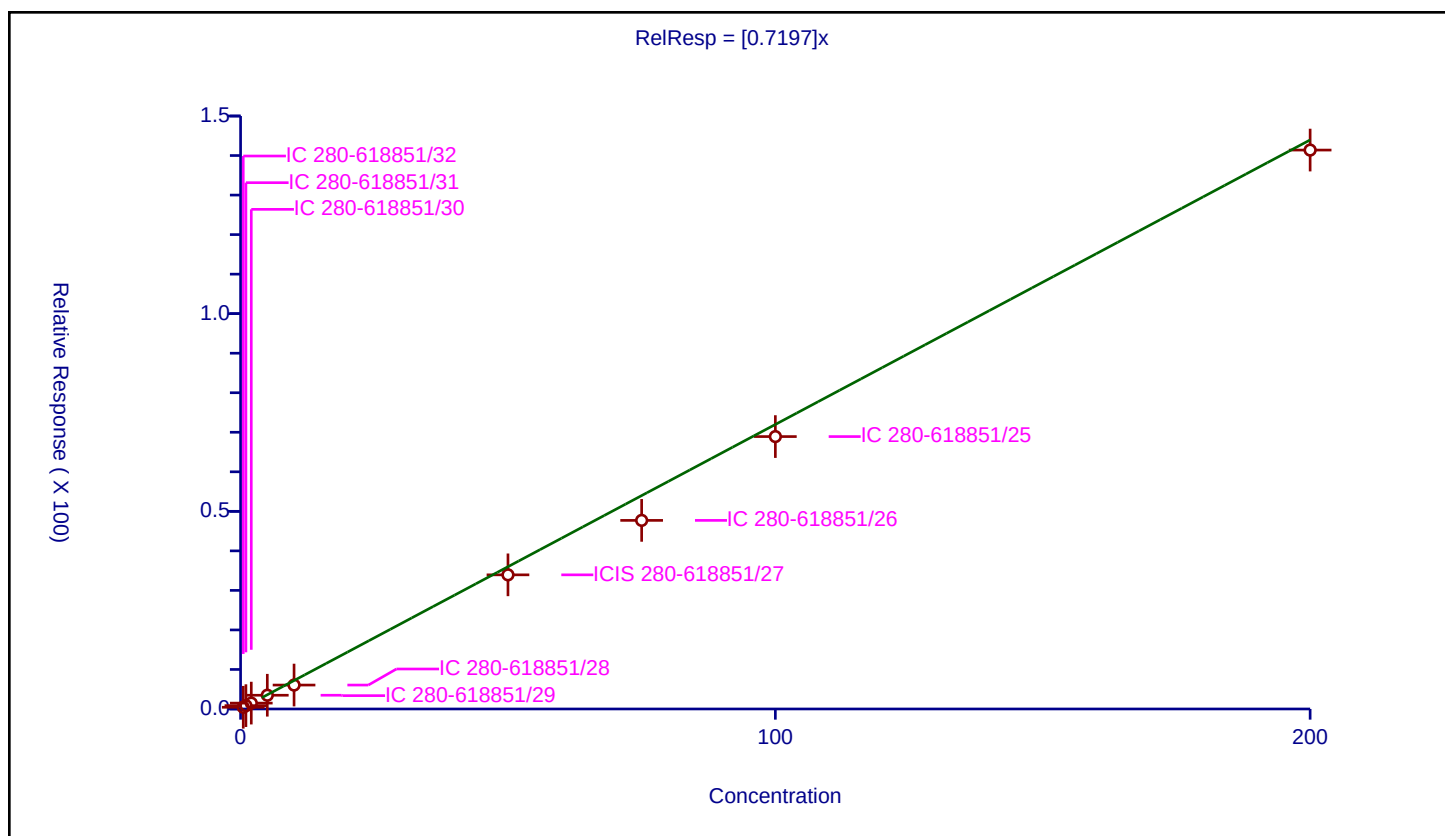
Curve Coefficients

Intercept: 0
Slope: 0.7197

Error Coefficients

Standard Error: 1920000
Relative Standard Error: 12.5
Correlation Coefficient: 0.992
Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.437486	50.0	1471704.0	0.874972	Y
2	IC 280-618851/31	1.0	0.848656	50.0	1451943.0	0.848656	Y
3	IC 280-618851/30	2.0	1.484993	50.0	1413778.0	0.742496	Y
4	IC 280-618851/29	5.0	3.478857	50.0	1525415.0	0.695771	Y
5	IC 280-618851/28	10.0	6.050891	50.0	1549276.0	0.605089	Y
6	ICIS 280-618851/27	50.0	33.934092	50.0	1454826.0	0.678682	Y
7	IC 280-618851/26	75.0	47.705509	50.0	1514933.0	0.636073	Y
8	IC 280-618851/25	100.0	68.907004	50.0	1472531.0	0.68907	Y
9	IC 280-618851/24	200.0	141.385079	50.0	1667926.0	0.706925	Y



Calibration

/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

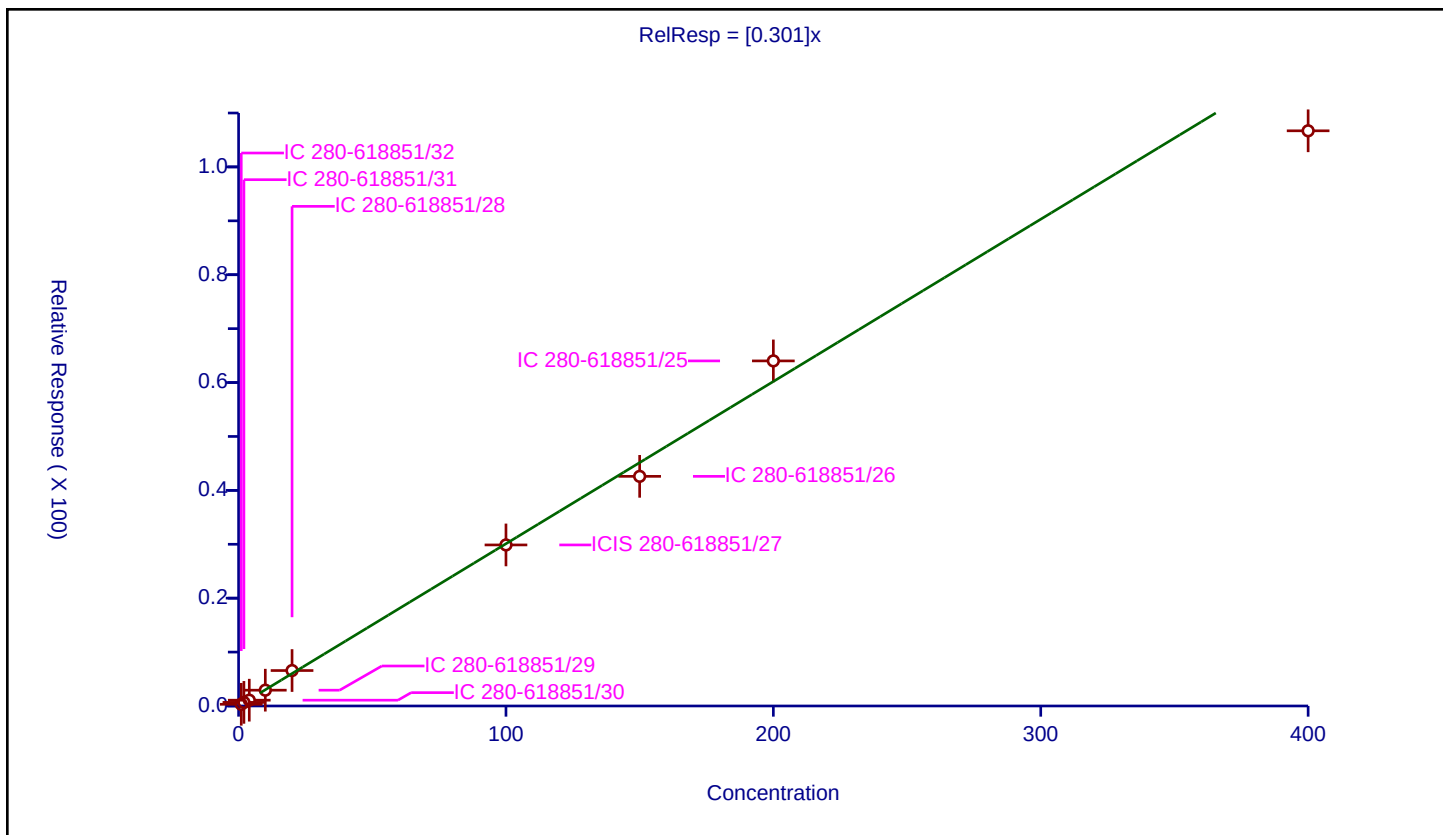
Curve Coefficients

Intercept: 0
Slope: 0.301

Error Coefficients

Standard Error: 1530000
Relative Standard Error: 8.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	1.0	0.312665	50.0	1471704.0	0.312665	Y
2	IC 280-618851/31	2.0	0.67234	50.0	1451943.0	0.33617	Y
3	IC 280-618851/30	4.0	1.073648	50.0	1413778.0	0.268412	Y
4	IC 280-618851/29	10.0	2.932972	50.0	1525415.0	0.293297	Y
5	IC 280-618851/28	20.0	6.575491	50.0	1549276.0	0.328775	Y
6	ICIS 280-618851/27	100.0	29.875325	50.0	1454826.0	0.298753	Y
7	IC 280-618851/26	150.0	42.597593	50.0	1514933.0	0.283984	Y
8	IC 280-618851/25	200.0	64.014747	50.0	1472531.0	0.320074	Y
9	IC 280-618851/24	400.0	106.699488	50.0	1667926.0	0.266749	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

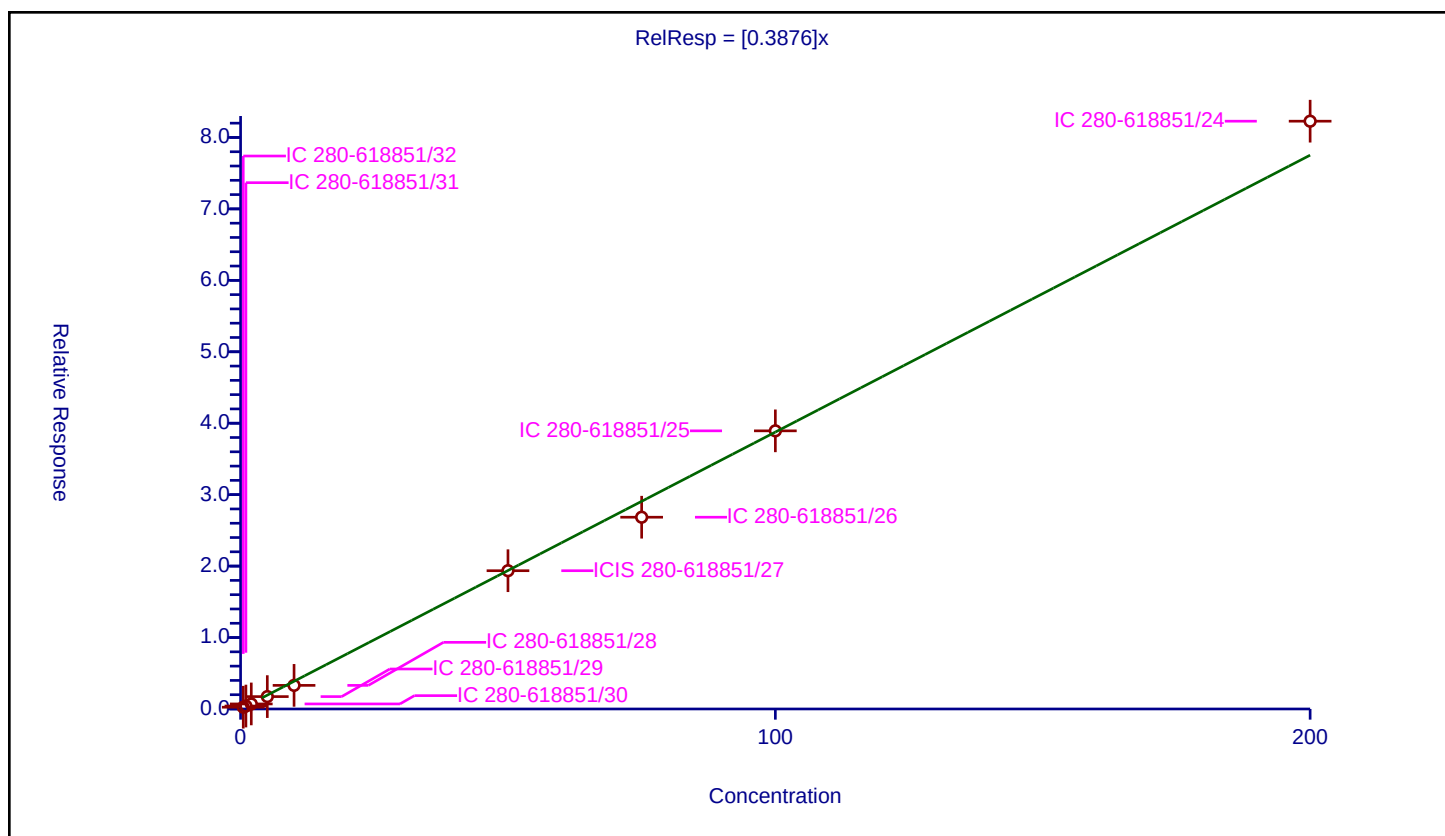
Curve Coefficients

Intercept: 0
Slope: 0.3876

Error Coefficients

Standard Error: 1110000
Relative Standard Error: 13.0
Correlation Coefficient: 0.990
Coefficient of Determination (Adjusted): 0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.248963	50.0	1471704.0	0.497926	Y
2	IC 280-618851/31	1.0	0.413963	50.0	1451943.0	0.413963	Y
3	IC 280-618851/30	2.0	0.707431	50.0	1413778.0	0.353715	Y
4	IC 280-618851/29	5.0	1.732643	50.0	1525415.0	0.346529	Y
5	IC 280-618851/28	10.0	3.305867	50.0	1549276.0	0.330587	Y
6	ICIS 280-618851/27	50.0	19.353861	50.0	1454826.0	0.387077	Y
7	IC 280-618851/26	75.0	26.842177	50.0	1514933.0	0.357896	Y
8	IC 280-618851/25	100.0	38.932559	50.0	1472531.0	0.389326	Y
9	IC 280-618851/24	200.0	82.274693	50.0	1667926.0	0.411373	Y



Calibration

/ Methylene Chloride

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

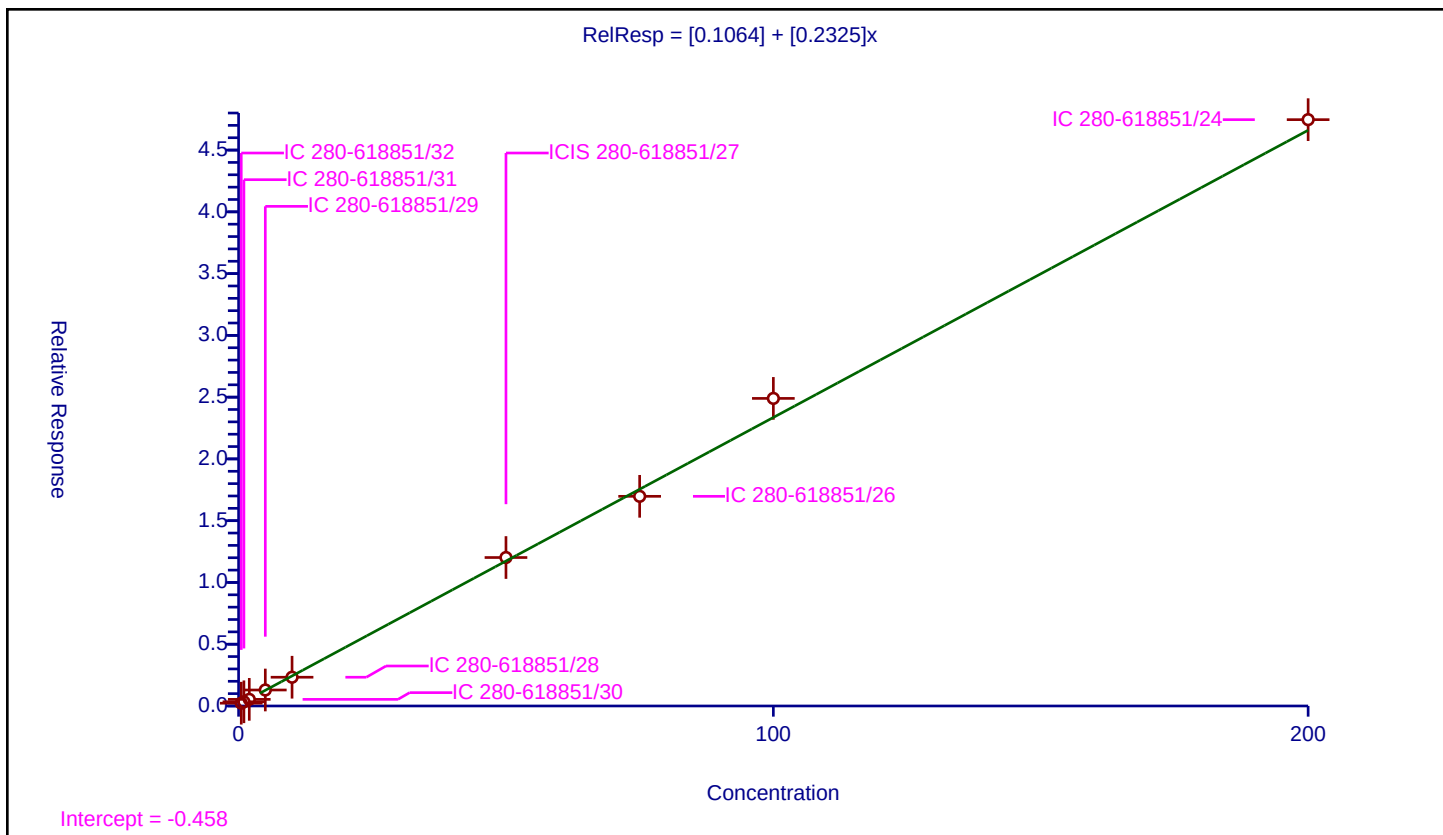
Curve Coefficients

Intercept: 0.1064
 Slope: 0.2325

Error Coefficients

Standard Error: 701000
 Relative Standard Error: 4.6
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.224536	50.0	1471704.0	0.449071	Y
2	IC 280-618851/31	1.0	0.340062	50.0	1451943.0	0.340062	Y
3	IC 280-618851/30	2.0	0.536824	50.0	1413778.0	0.268412	Y
4	IC 280-618851/29	5.0	1.294435	50.0	1525415.0	0.258887	Y
5	IC 280-618851/28	10.0	2.327119	50.0	1549276.0	0.232712	Y
6	ICIS 280-618851/27	50.0	12.018551	50.0	1454826.0	0.240371	Y
7	IC 280-618851/26	75.0	16.972764	50.0	1514933.0	0.226304	Y
8	IC 280-618851/25	100.0	24.89788	50.0	1472531.0	0.248979	Y
9	IC 280-618851/24	200.0	47.463137	50.0	1667926.0	0.237316	Y



Calibration

/ 2-Methyl-2-propanol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

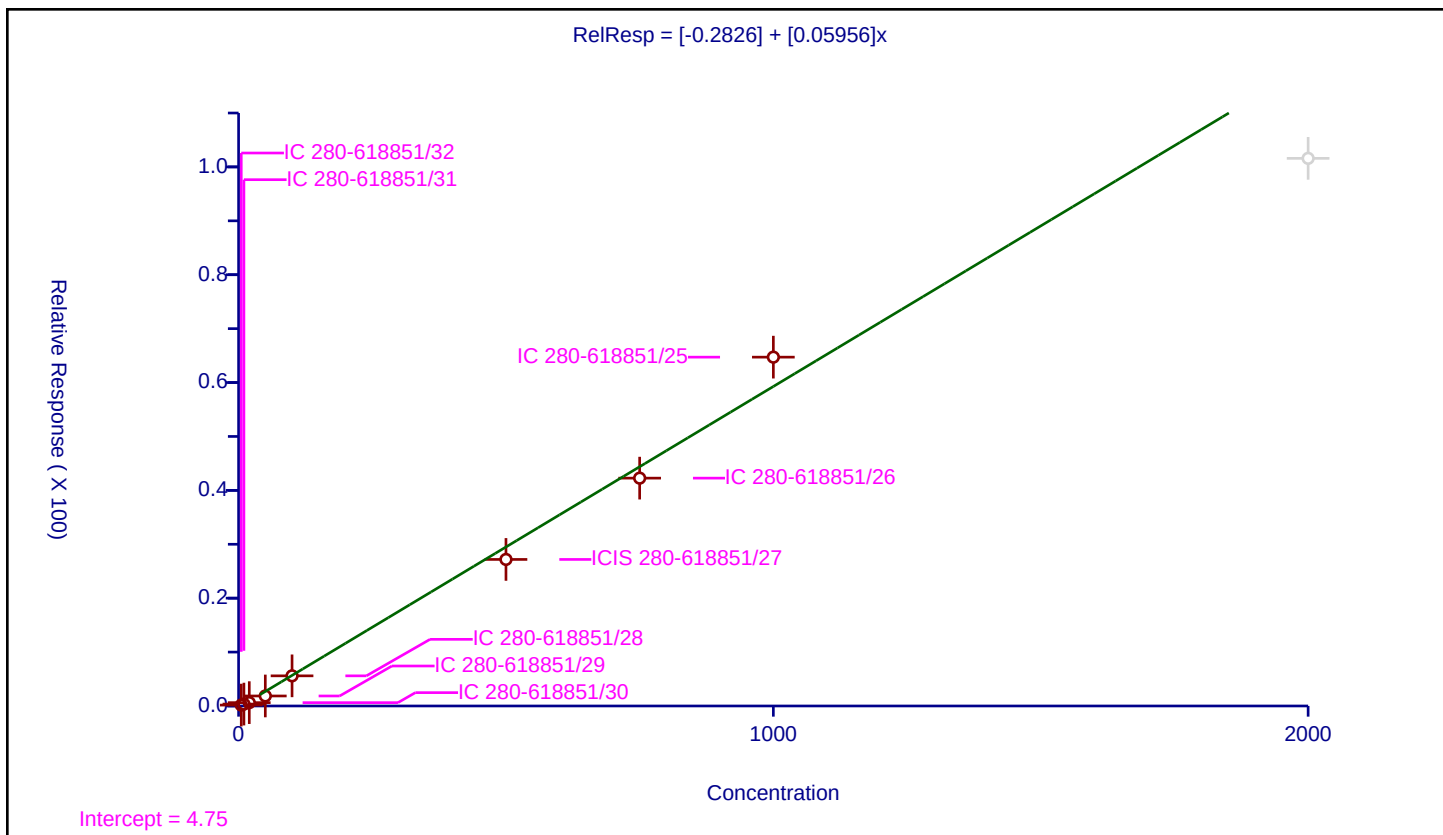
Curve Coefficients

Intercept: -0.2826
 Slope: 0.05956

Error Coefficients

Standard Error: 994000
 Relative Standard Error: 26.2
 Correlation Coefficient: 0.993
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	5.0	0.164979	50.0	1471704.0	0.032996	Y
2	IC 280-618851/31	10.0	0.351908	50.0	1451943.0	0.035191	Y
3	IC 280-618851/30	20.0	0.622304	50.0	1413778.0	0.031115	Y
4	IC 280-618851/29	50.0	1.857888	50.0	1525415.0	0.037158	Y
5	IC 280-618851/28	100.0	5.593032	50.0	1549276.0	0.05593	Y
6	ICIS 280-618851/27	500.0	27.18301	50.0	1454826.0	0.054366	Y
7	IC 280-618851/26	750.0	42.270516	50.0	1514933.0	0.056361	Y
8	IC 280-618851/25	1000.0	64.712593	50.0	1472531.0	0.064713	Y
9	IC 280-618851/24	2000.0	101.589279	50.0	1667926.0	0.050795	N



Calibration

/ Acrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

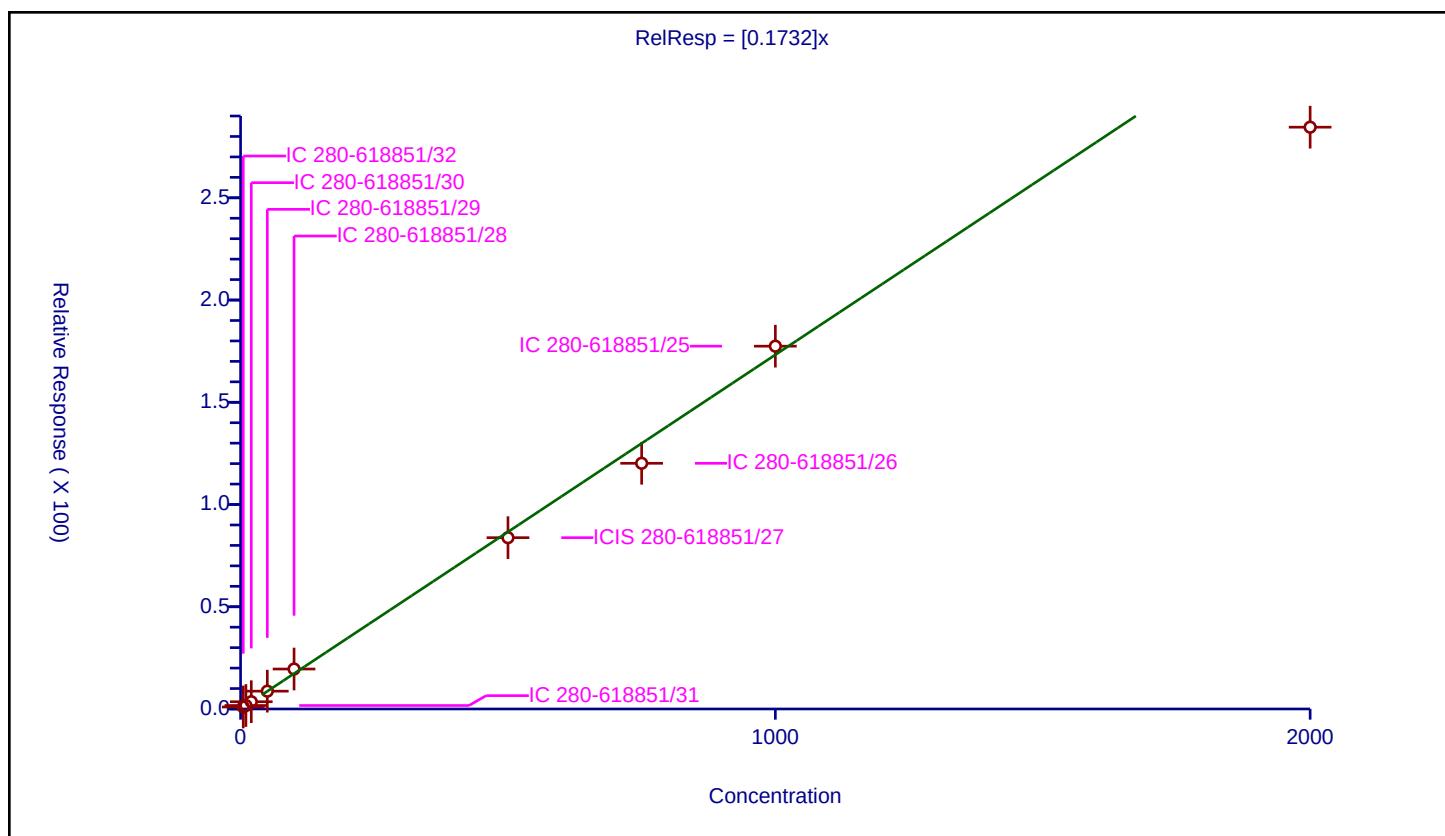
Curve Coefficients

Intercept: 0
Slope: 0.1732

Error Coefficients

Standard Error: 4140000
Relative Standard Error: 9.4
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	5.0	0.968469	50.0	1471704.0	0.193694	Y
2	IC 280-618851/31	10.0	1.703614	50.0	1451943.0	0.170361	Y
3	IC 280-618851/30	20.0	3.555049	50.0	1413778.0	0.177752	Y
4	IC 280-618851/29	50.0	8.712809	50.0	1525415.0	0.174256	Y
5	IC 280-618851/28	100.0	19.547937	50.0	1549276.0	0.195479	Y
6	ICIS 280-618851/27	500.0	83.781016	50.0	1454826.0	0.167562	Y
7	IC 280-618851/26	750.0	120.162212	50.0	1514933.0	0.160216	Y
8	IC 280-618851/25	1000.0	177.436706	50.0	1472531.0	0.177437	Y
9	IC 280-618851/24	2000.0	284.52926	50.0	1667926.0	0.142265	Y



Calibration

/ Methyl tert-butyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

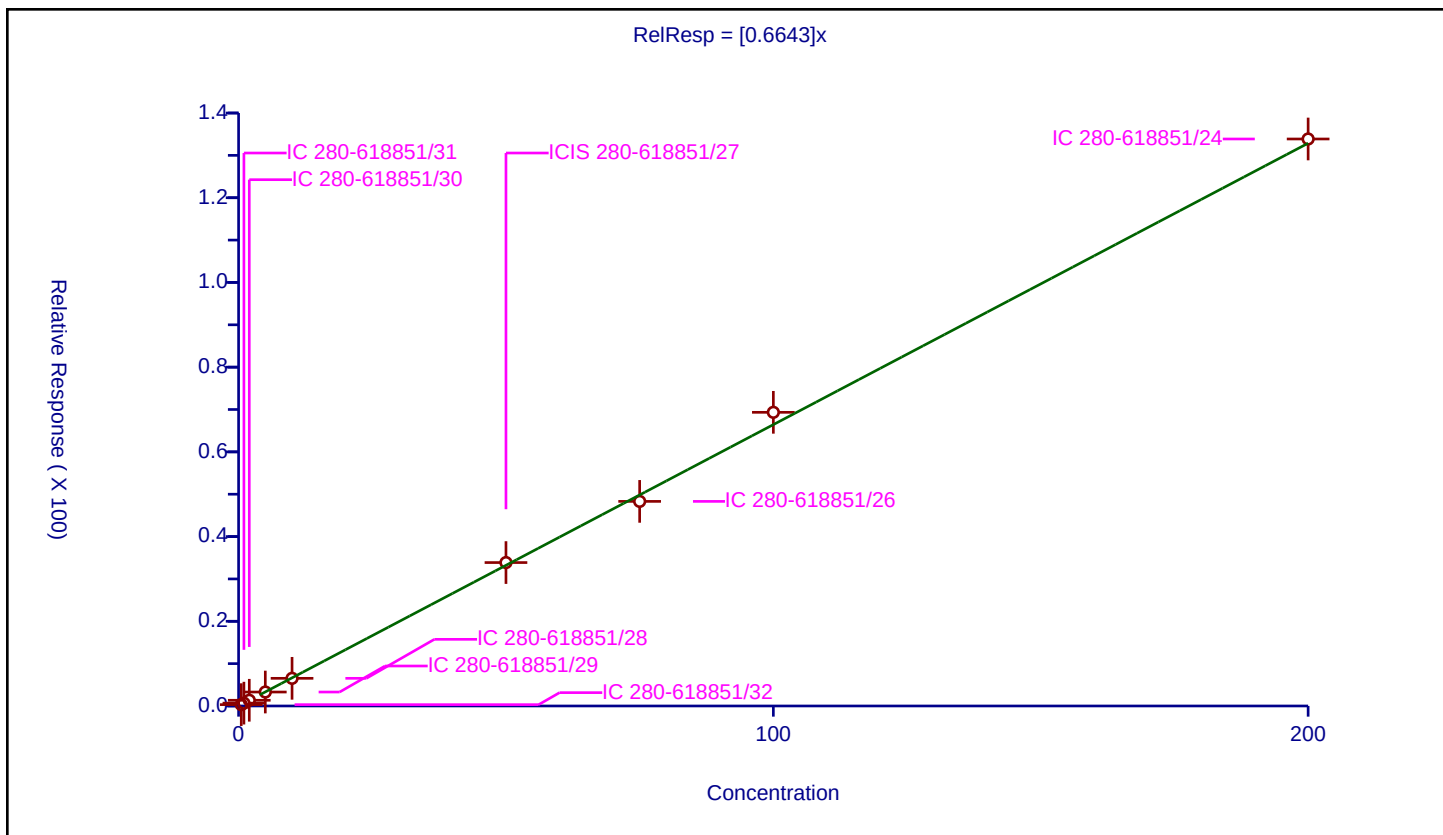
Curve Coefficients

Intercept: 0
 Slope: 0.6643

Error Coefficients

Standard Error: 1850000
 Relative Standard Error: 2.6
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.319154	50.0	1471704.0	0.638308	Y
2	IC 280-618851/31	1.0	0.669069	50.0	1451943.0	0.669069	Y
3	IC 280-618851/30	2.0	1.35046	50.0	1413778.0	0.67523	Y
4	IC 280-618851/29	5.0	3.296447	50.0	1525415.0	0.659289	Y
5	IC 280-618851/28	10.0	6.531696	50.0	1549276.0	0.65317	Y
6	ICIS 280-618851/27	50.0	33.861197	50.0	1454826.0	0.677224	Y
7	IC 280-618851/26	75.0	48.303027	50.0	1514933.0	0.64404	Y
8	IC 280-618851/25	100.0	69.335416	50.0	1472531.0	0.693354	Y
9	IC 280-618851/24	200.0	133.868619	50.0	1667926.0	0.669343	Y



Calibration

/ trans-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

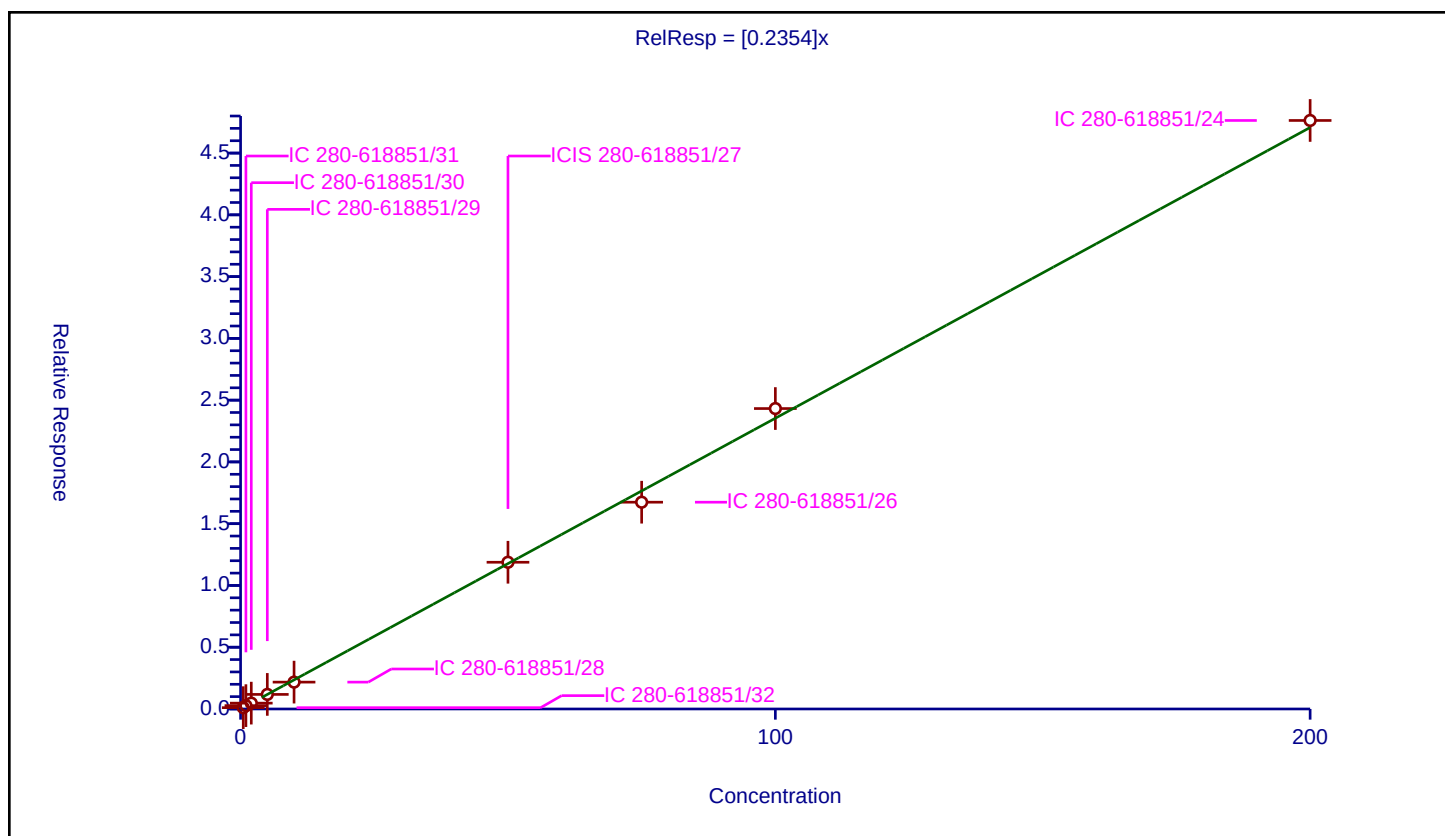
Curve Coefficients

Intercept: 0
Slope: 0.2354

Error Coefficients

Standard Error: 654000
Relative Standard Error: 7.0
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.1078	50.0	1471704.0	0.2156	Y
2	IC 280-618851/31	1.0	0.270465	50.0	1451943.0	0.270465	Y
3	IC 280-618851/30	2.0	0.473059	50.0	1413778.0	0.236529	Y
4	IC 280-618851/29	5.0	1.179941	50.0	1525415.0	0.235988	Y
5	IC 280-618851/28	10.0	2.175177	50.0	1549276.0	0.217518	Y
6	ICIS 280-618851/27	50.0	11.8774	50.0	1454826.0	0.237548	Y
7	IC 280-618851/26	75.0	16.739684	50.0	1514933.0	0.223196	Y
8	IC 280-618851/25	100.0	24.320439	50.0	1472531.0	0.243204	Y
9	IC 280-618851/24	200.0	47.639074	50.0	1667926.0	0.238195	Y



Calibration

/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

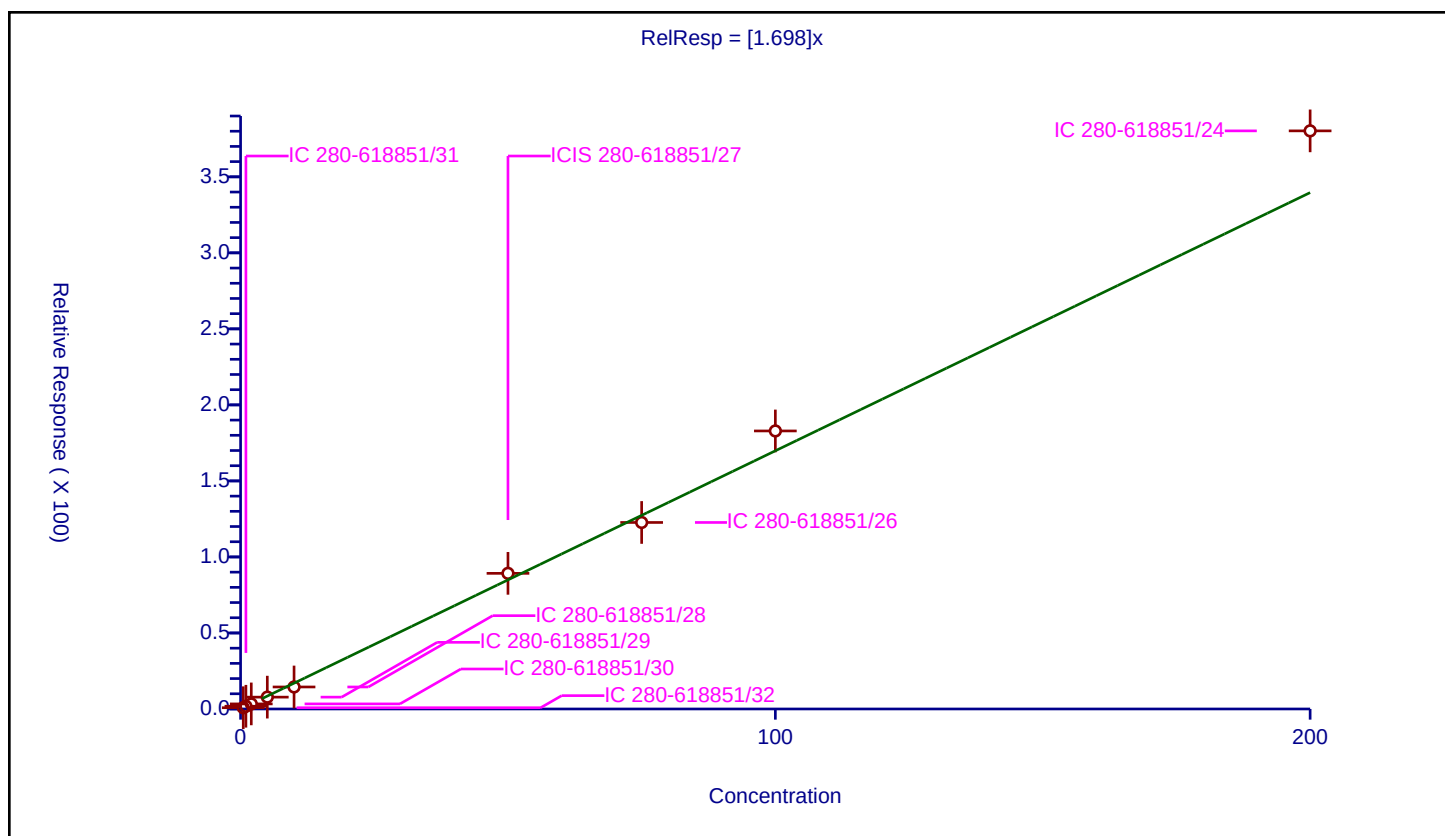
Curve Coefficients

Intercept: 0
Slope: 1.698

Error Coefficients

Standard Error: 1260000
Relative Standard Error: 8.4
Correlation Coefficient: 0.991
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.833159	50.0	372618.0	1.666318	Y
2	IC 280-618851/31	1.0	1.789363	50.0	362196.0	1.789363	Y
3	IC 280-618851/30	2.0	3.336882	50.0	350387.0	1.668441	Y
4	IC 280-618851/29	5.0	7.802809	50.0	390180.0	1.560562	Y
5	IC 280-618851/28	10.0	14.485767	50.0	392682.0	1.448577	Y
6	ICIS 280-618851/27	50.0	89.208423	50.0	359447.0	1.784168	Y
7	IC 280-618851/26	75.0	122.68028	50.0	374334.0	1.635737	Y
8	IC 280-618851/25	100.0	182.865096	50.0	361569.0	1.828651	Y
9	IC 280-618851/24	200.0	380.229806	50.0	407257.0	1.901149	Y



Calibration

/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

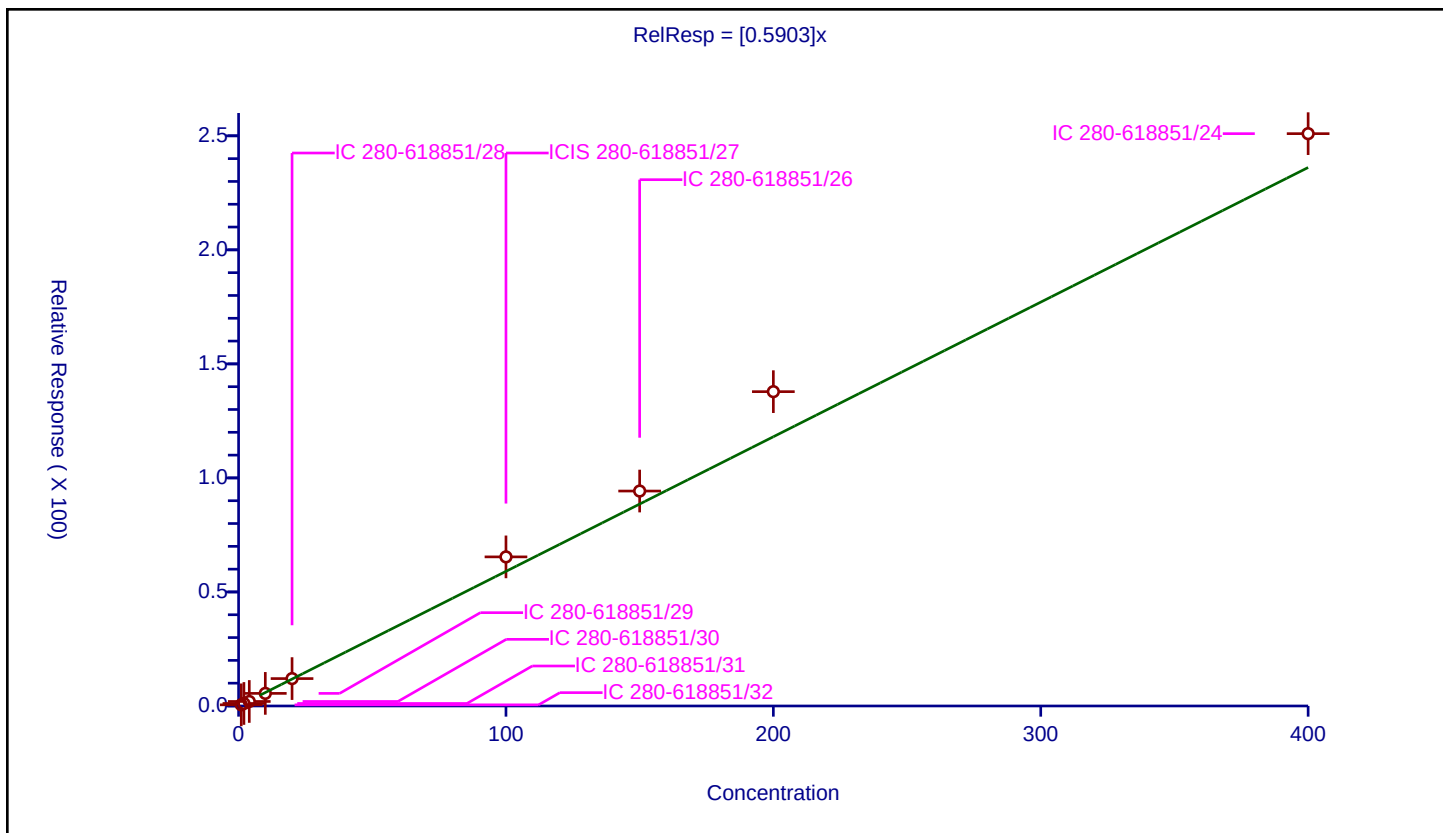
Curve Coefficients

Intercept: 0
 Slope: 0.5903

Error Coefficients

Standard Error: 3510000
 Relative Standard Error: 11.2
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	1.0	0.51087	50.0	1471704.0	0.51087	Y
2	IC 280-618851/31	2.0	1.107447	50.0	1451943.0	0.553724	Y
3	IC 280-618851/30	4.0	1.984576	50.0	1413778.0	0.496144	Y
4	IC 280-618851/29	10.0	5.52348	50.0	1525415.0	0.552348	Y
5	IC 280-618851/28	20.0	12.015871	50.0	1549276.0	0.600794	Y
6	ICIS 280-618851/27	100.0	65.372663	50.0	1454826.0	0.653727	Y
7	IC 280-618851/26	150.0	94.248756	50.0	1514933.0	0.628325	Y
8	IC 280-618851/25	200.0	137.823414	50.0	1472531.0	0.689117	Y
9	IC 280-618851/24	400.0	250.949413	50.0	1667926.0	0.627374	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

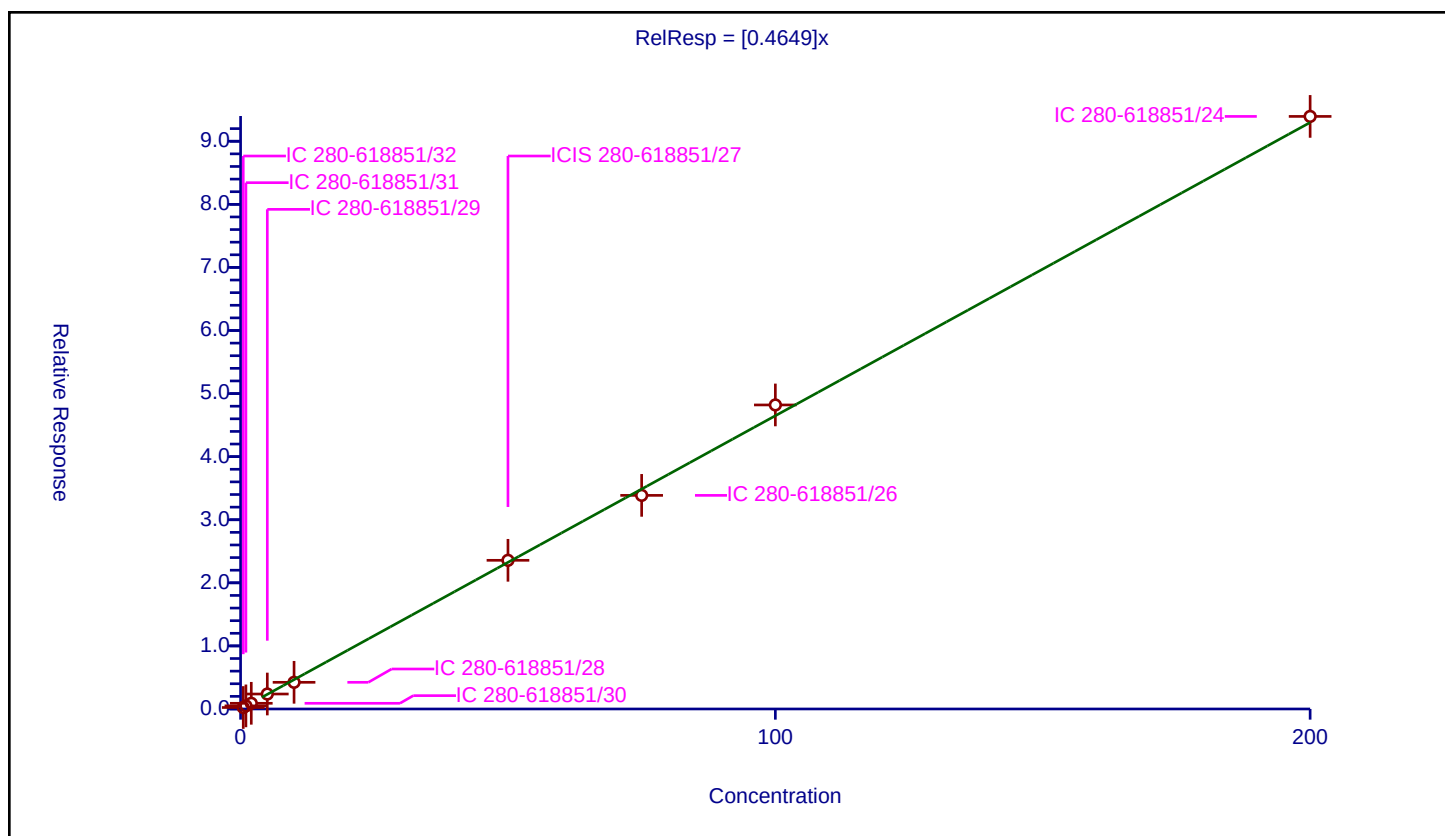
Curve Coefficients

Intercept: 0
Slope: 0.4649

Error Coefficients

Standard Error: 1290000
Relative Standard Error: 4.5
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.233403	50.0	1471704.0	0.466806	Y
2	IC 280-618851/31	1.0	0.494338	50.0	1451943.0	0.494338	Y
3	IC 280-618851/30	2.0	0.901627	50.0	1413778.0	0.450813	Y
4	IC 280-618851/29	5.0	2.372633	50.0	1525415.0	0.474527	Y
5	IC 280-618851/28	10.0	4.228588	50.0	1549276.0	0.422859	Y
6	ICIS 280-618851/27	50.0	23.569142	50.0	1454826.0	0.471383	Y
7	IC 280-618851/26	75.0	33.861498	50.0	1514933.0	0.451487	Y
8	IC 280-618851/25	100.0	48.195352	50.0	1472531.0	0.481954	Y
9	IC 280-618851/24	200.0	93.93855	50.0	1667926.0	0.469693	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

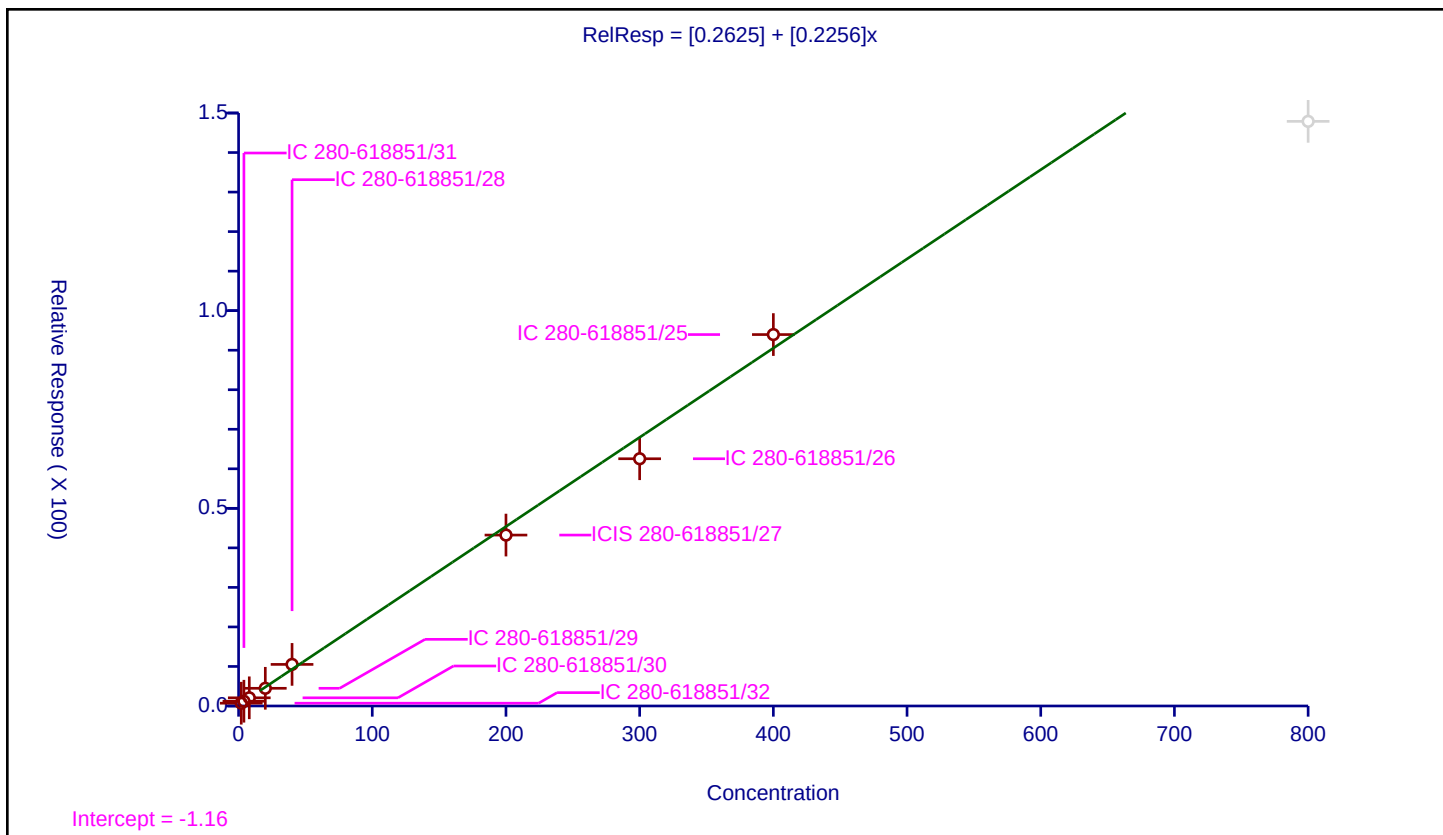
Curve Coefficients

Intercept: 0.2625
 Slope: 0.2256

Error Coefficients

Standard Error: 1470000
 Relative Standard Error: 7.7
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	2.0	0.704863	50.0	1471704.0	0.352432	Y
2	IC 280-618851/31	4.0	1.202423	50.0	1451943.0	0.300606	Y
3	IC 280-618851/30	8.0	2.065671	50.0	1413778.0	0.258209	Y
4	IC 280-618851/29	20.0	4.473209	50.0	1525415.0	0.22366	Y
5	IC 280-618851/28	40.0	10.516912	50.0	1549276.0	0.262923	Y
6	ICIS 280-618851/27	200.0	43.233727	50.0	1454826.0	0.216169	Y
7	IC 280-618851/26	300.0	62.539498	50.0	1514933.0	0.208465	Y
8	IC 280-618851/25	400.0	93.960127	50.0	1472531.0	0.2349	Y
9	IC 280-618851/24	800.0	147.886897	50.0	1667926.0	0.184859	N



Calibration

/ cis-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

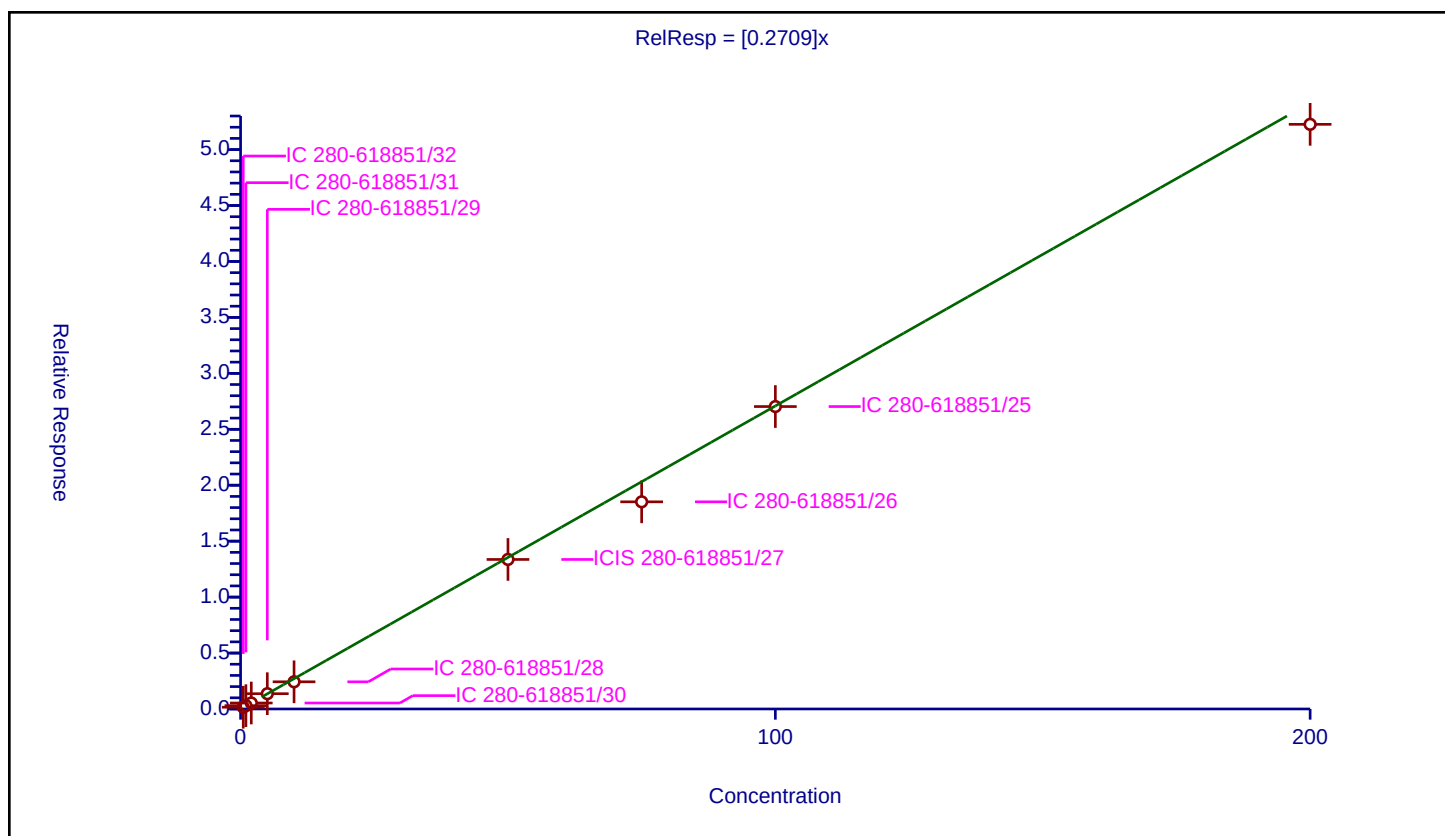
Curve Coefficients

Intercept: 0
Slope: 0.2709

Error Coefficients

Standard Error: 720000
Relative Standard Error: 8.0
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.155738	50.0	1471704.0	0.311476	Y
2	IC 280-618851/31	1.0	0.296671	50.0	1451943.0	0.296671	Y
3	IC 280-618851/30	2.0	0.534561	50.0	1413778.0	0.26728	Y
4	IC 280-618851/29	5.0	1.367333	50.0	1525415.0	0.273467	Y
5	IC 280-618851/28	10.0	2.431071	50.0	1549276.0	0.243107	Y
6	ICIS 280-618851/27	50.0	13.364657	50.0	1454826.0	0.267293	Y
7	IC 280-618851/26	75.0	18.516561	50.0	1514933.0	0.246887	Y
8	IC 280-618851/25	100.0	27.031248	50.0	1472531.0	0.270312	Y
9	IC 280-618851/24	200.0	52.255466	50.0	1667926.0	0.261277	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

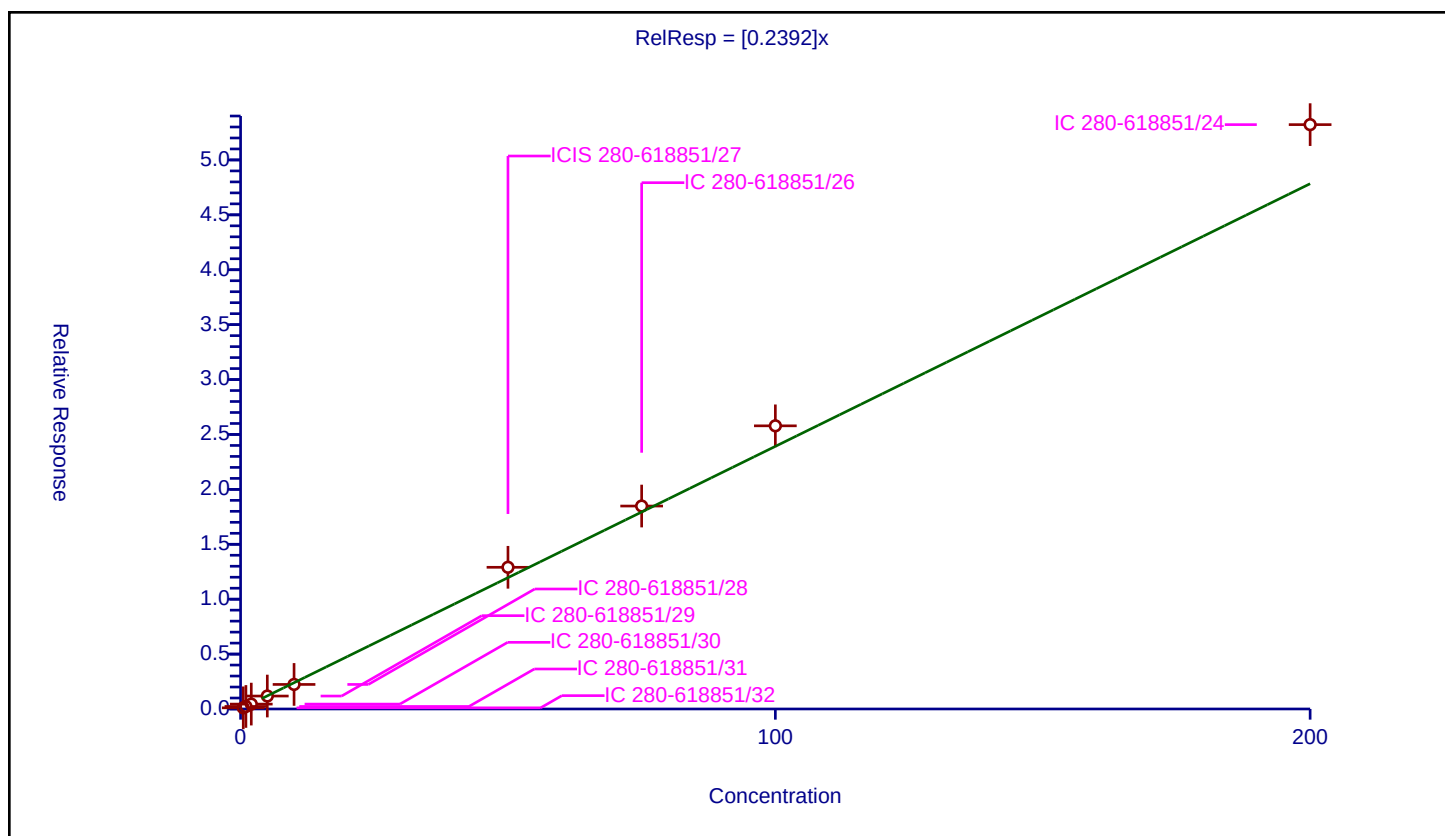
Curve Coefficients

Intercept: 0
Slope: 0.2392

Error Coefficients

Standard Error: 724000
Relative Standard Error: 7.8
Correlation Coefficient: 0.993
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.106713	50.0	1471704.0	0.213426	Y
2	IC 280-618851/31	1.0	0.2289	50.0	1451943.0	0.2289	Y
3	IC 280-618851/30	2.0	0.444518	50.0	1413778.0	0.222259	Y
4	IC 280-618851/29	5.0	1.179581	50.0	1525415.0	0.235916	Y
5	IC 280-618851/28	10.0	2.235948	50.0	1549276.0	0.223595	Y
6	ICIS 280-618851/27	50.0	12.902402	50.0	1454826.0	0.258048	Y
7	IC 280-618851/26	75.0	18.481642	50.0	1514933.0	0.246422	Y
8	IC 280-618851/25	100.0	25.786282	50.0	1472531.0	0.257863	Y
9	IC 280-618851/24	200.0	53.21546	50.0	1667926.0	0.266077	Y



Calibration

/ sec-Butyl Alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

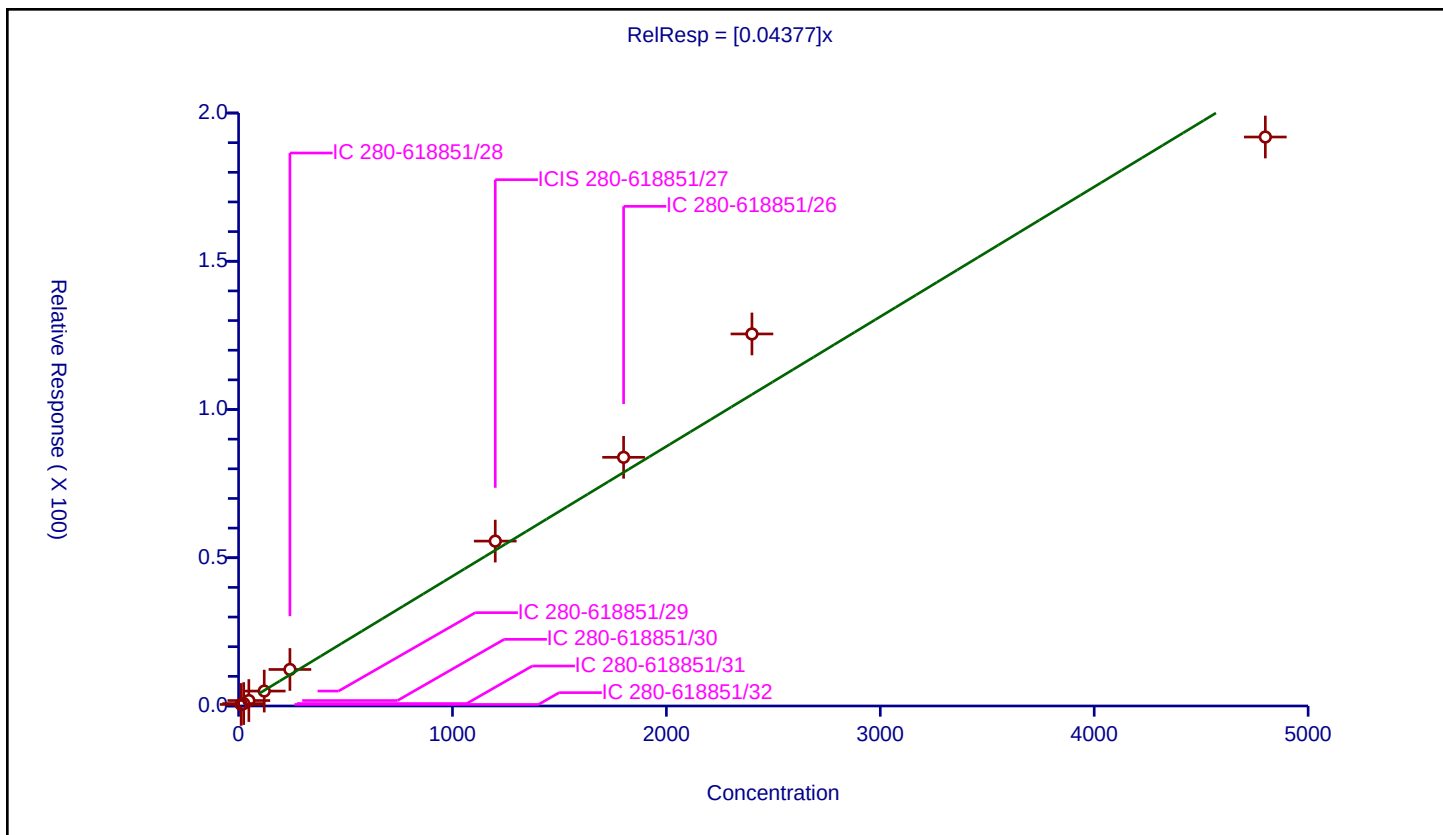
Curve Coefficients

Intercept: 0
 Slope: 0.04377

Error Coefficients

Standard Error: 2830000
 Relative Standard Error: 13.6
 Correlation Coefficient: 0.995
 Coefficient of Determination (Adjusted): 0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	12.0	0.516034	50.0	1471704.0	0.043003	Y
2	IC 280-618851/31	24.0	0.819247	50.0	1451943.0	0.034135	Y
3	IC 280-618851/30	48.0	1.841414	50.0	1413778.0	0.038363	Y
4	IC 280-618851/29	120.0	5.032532	50.0	1525415.0	0.041938	Y
5	IC 280-618851/28	240.0	12.314074	50.0	1549276.0	0.051309	Y
6	ICIS 280-618851/27	1200.0	55.615551	50.0	1454826.0	0.046346	Y
7	IC 280-618851/26	1800.0	83.877406	50.0	1514933.0	0.046599	Y
8	IC 280-618851/25	2400.0	125.478547	50.0	1472531.0	0.052283	Y
9	IC 280-618851/24	4800.0	191.908184	50.0	1667926.0	0.039981	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

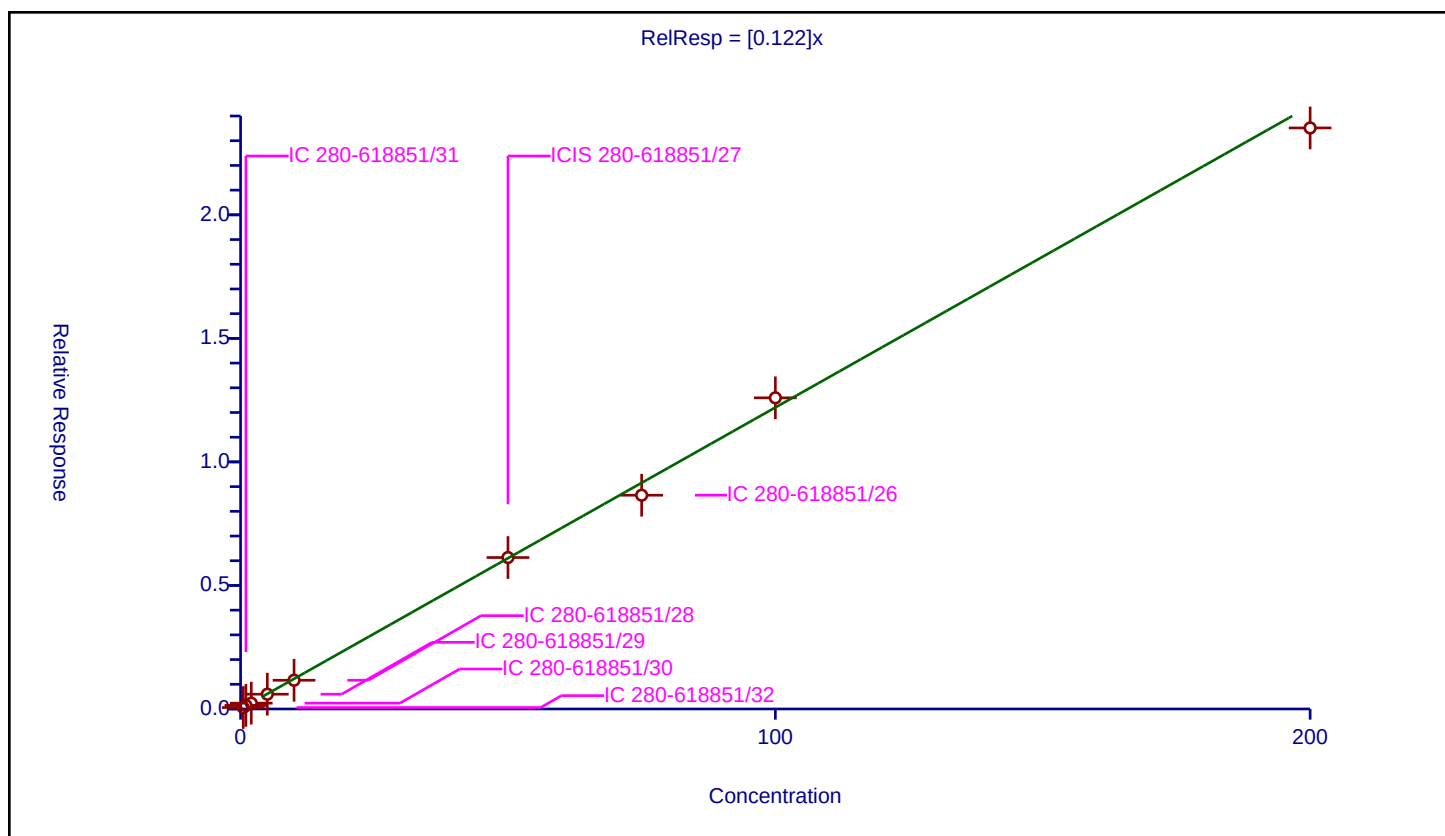
Curve Coefficients

Intercept: 0
Slope: 0.122

Error Coefficients

Standard Error: 327000
Relative Standard Error: 7.7
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.058775	50.0	1471704.0	0.117551	Y
2	IC 280-618851/31	1.0	0.145495	50.0	1451943.0	0.145495	Y
3	IC 280-618851/30	2.0	0.235504	50.0	1413778.0	0.117752	Y
4	IC 280-618851/29	5.0	0.598952	50.0	1525415.0	0.11979	Y
5	IC 280-618851/28	10.0	1.162511	50.0	1549276.0	0.116251	Y
6	ICIS 280-618851/27	50.0	6.129908	50.0	1454826.0	0.122598	Y
7	IC 280-618851/26	75.0	8.652693	50.0	1514933.0	0.115369	Y
8	IC 280-618851/25	100.0	12.593555	50.0	1472531.0	0.125936	Y
9	IC 280-618851/24	200.0	23.51747	50.0	1667926.0	0.117587	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

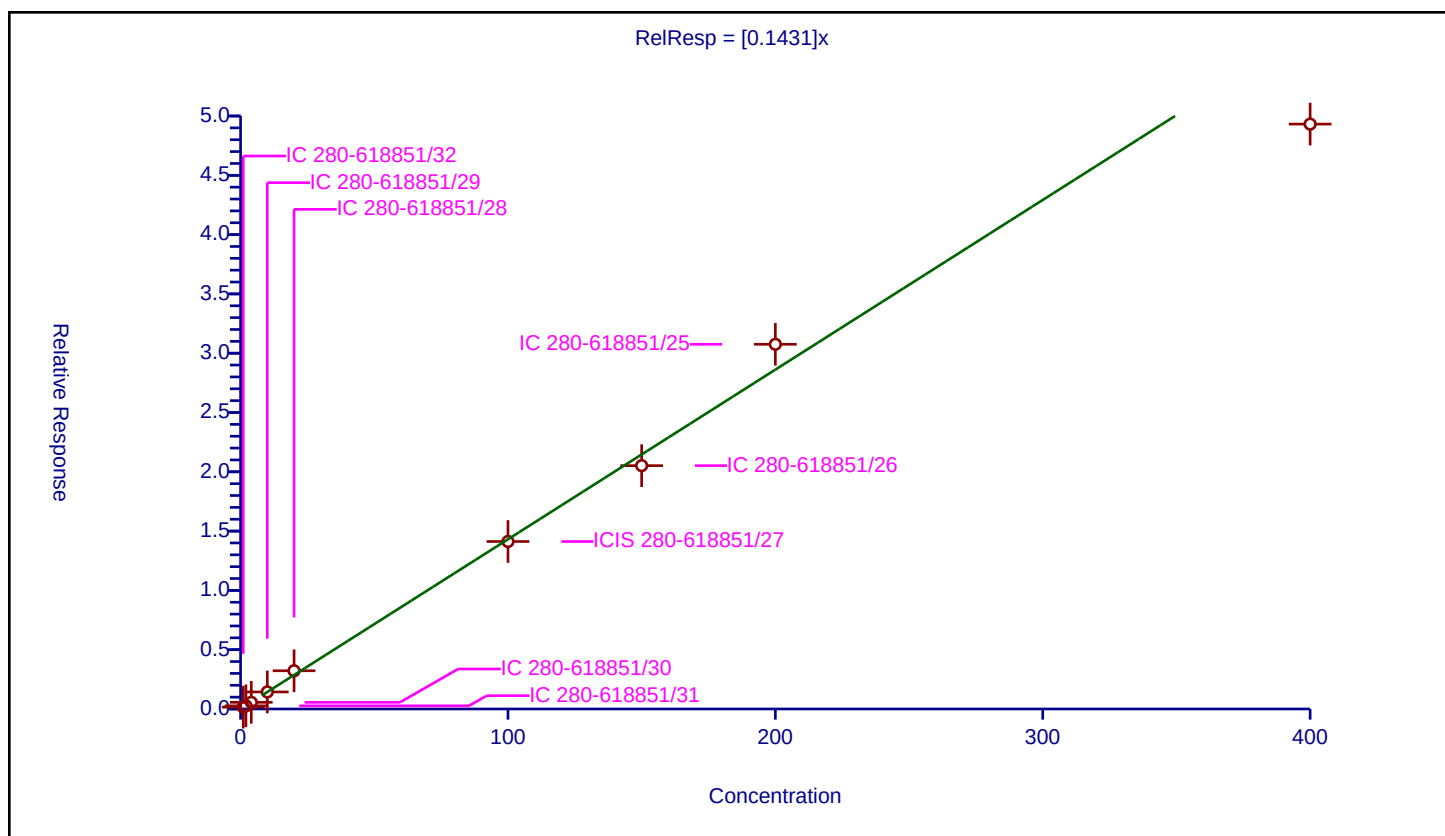
Curve Coefficients

Intercept: 0
Slope: 0.1431

Error Coefficients

Standard Error: 715000
Relative Standard Error: 8.1
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	1.0	0.153597	50.0	1471704.0	0.153597	Y
2	IC 280-618851/31	2.0	0.267297	50.0	1451943.0	0.133648	Y
3	IC 280-618851/30	4.0	0.56105	50.0	1413778.0	0.140262	Y
4	IC 280-618851/29	10.0	1.438658	50.0	1525415.0	0.143866	Y
5	IC 280-618851/28	20.0	3.223828	50.0	1549276.0	0.161191	Y
6	ICIS 280-618851/27	100.0	14.121826	50.0	1454826.0	0.141218	Y
7	IC 280-618851/26	150.0	20.520214	50.0	1514933.0	0.136801	Y
8	IC 280-618851/25	200.0	30.751441	50.0	1472531.0	0.153757	Y
9	IC 280-618851/24	400.0	49.318975	50.0	1667926.0	0.123297	Y



Calibration

/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

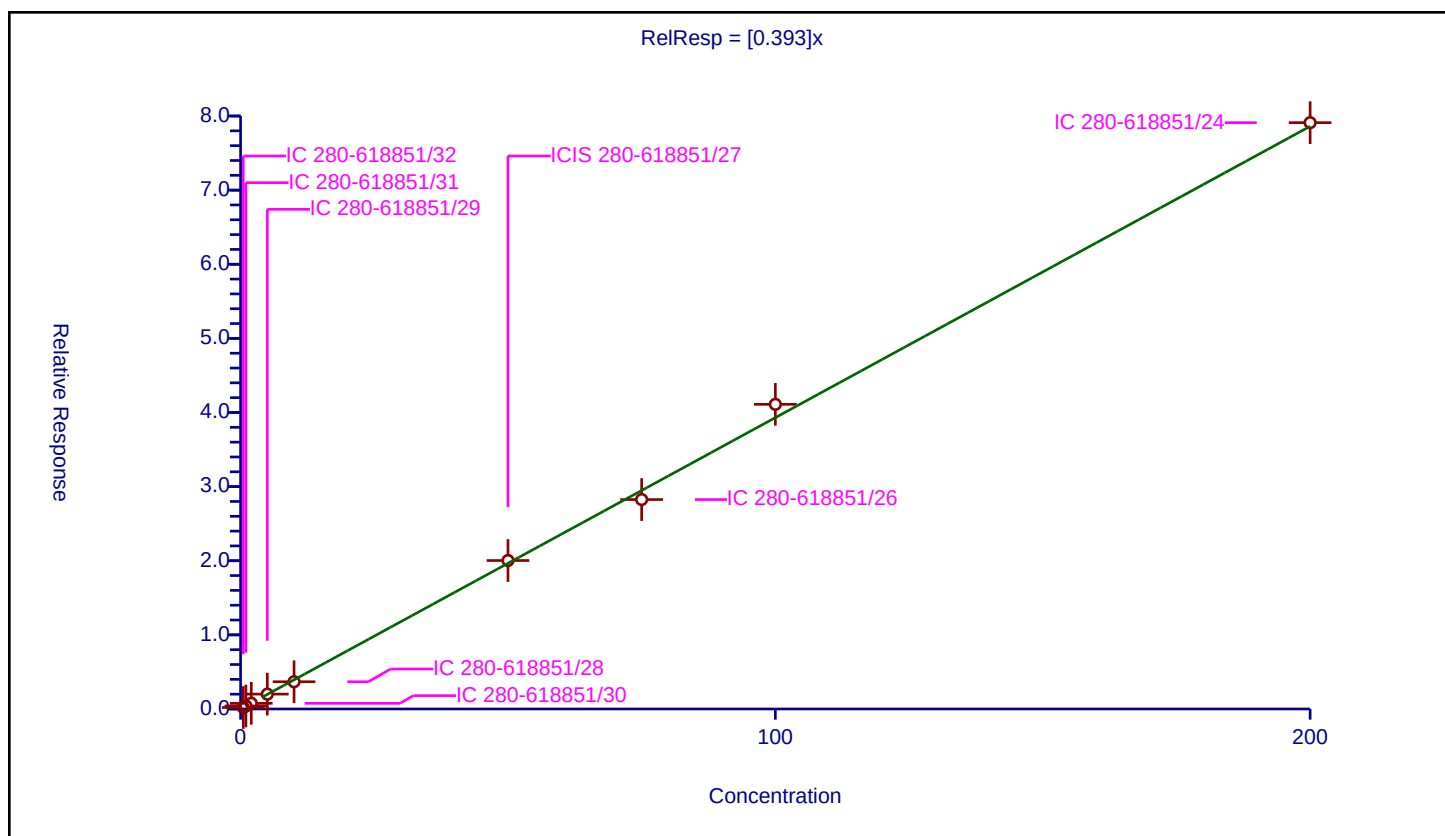
Curve Coefficients

Intercept: 0
Slope: 0.393

Error Coefficients

Standard Error: 1090000
Relative Standard Error: 3.6
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.199497	50.0	1471704.0	0.398993	Y
2	IC 280-618851/31	1.0	0.403184	50.0	1451943.0	0.403184	Y
3	IC 280-618851/30	2.0	0.765997	50.0	1413778.0	0.382999	Y
4	IC 280-618851/29	5.0	2.004209	50.0	1525415.0	0.400842	Y
5	IC 280-618851/28	10.0	3.675233	50.0	1549276.0	0.367523	Y
6	ICIS 280-618851/27	50.0	20.030608	50.0	1454826.0	0.400612	Y
7	IC 280-618851/26	75.0	28.25587	50.0	1514933.0	0.376745	Y
8	IC 280-618851/25	100.0	41.102802	50.0	1472531.0	0.411028	Y
9	IC 280-618851/24	200.0	79.10309	50.0	1667926.0	0.395515	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

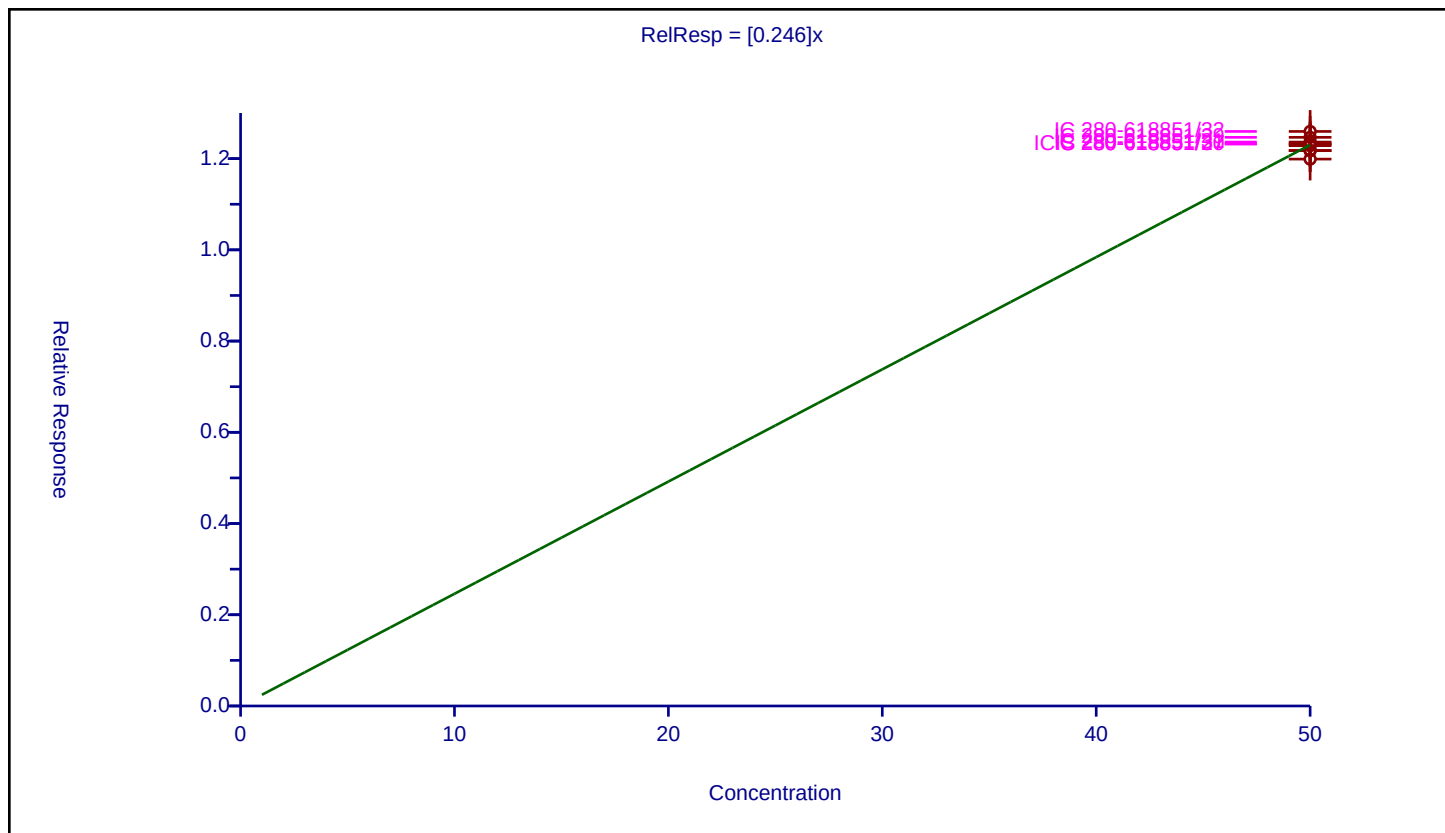
Curve Coefficients

Intercept: 0
 Slope: 0.246

Error Coefficients

Standard Error: 392000
 Relative Standard Error: 1.4
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	50.0	12.595875	50.0	1471704.0	0.251918	Y
2	IC 280-618851/31	50.0	12.363502	50.0	1451943.0	0.24727	Y
3	IC 280-618851/30	50.0	12.327289	50.0	1413778.0	0.246546	Y
4	IC 280-618851/29	50.0	12.467001	50.0	1525415.0	0.24934	Y
5	IC 280-618851/28	50.0	12.174622	50.0	1549276.0	0.243492	Y
6	ICIS 280-618851/27	50.0	12.318793	50.0	1454826.0	0.246376	Y
7	IC 280-618851/26	50.0	12.283778	50.0	1514933.0	0.245676	Y
8	IC 280-618851/25	50.0	11.989968	50.0	1472531.0	0.239799	Y
9	IC 280-618851/24	50.0	12.179107	50.0	1667926.0	0.243582	Y



Calibration

/ 1,1,1-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

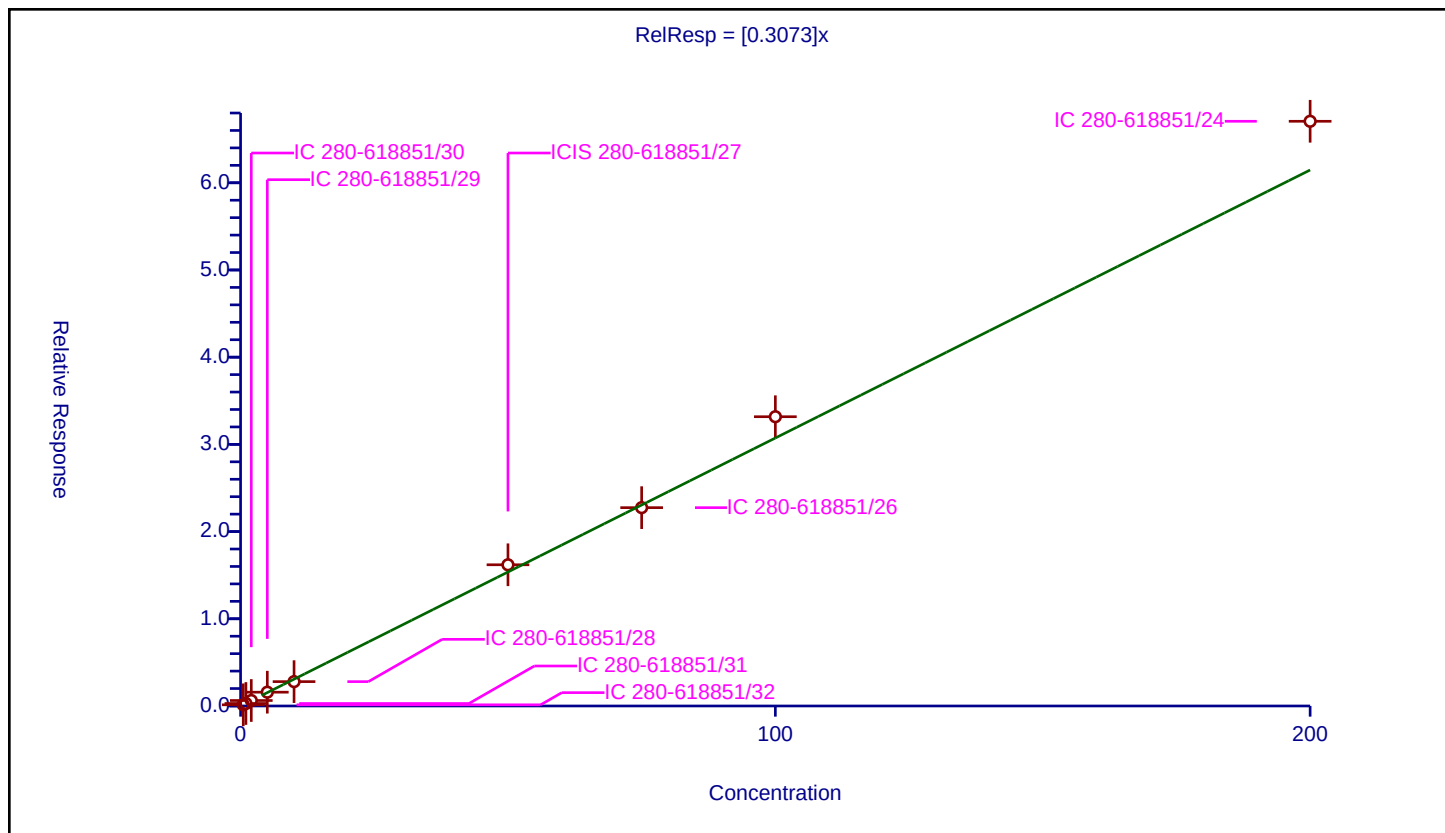
Curve Coefficients

Intercept: 0
Slope: 0.3073

Error Coefficients

Standard Error: 913000
Relative Standard Error: 7.3
Correlation Coefficient: 0.993
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.137528	50.0	1471704.0	0.275055	Y
2	IC 280-618851/31	1.0	0.28727	50.0	1451943.0	0.28727	Y
3	IC 280-618851/30	2.0	0.627043	50.0	1413778.0	0.313522	Y
4	IC 280-618851/29	5.0	1.583274	50.0	1525415.0	0.316655	Y
5	IC 280-618851/28	10.0	2.793402	50.0	1549276.0	0.27934	Y
6	ICIS 280-618851/27	50.0	16.19228	50.0	1454826.0	0.323846	Y
7	IC 280-618851/26	75.0	22.742623	50.0	1514933.0	0.303235	Y
8	IC 280-618851/25	100.0	33.172544	50.0	1472531.0	0.331725	Y
9	IC 280-618851/24	200.0	67.052435	50.0	1667926.0	0.335262	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

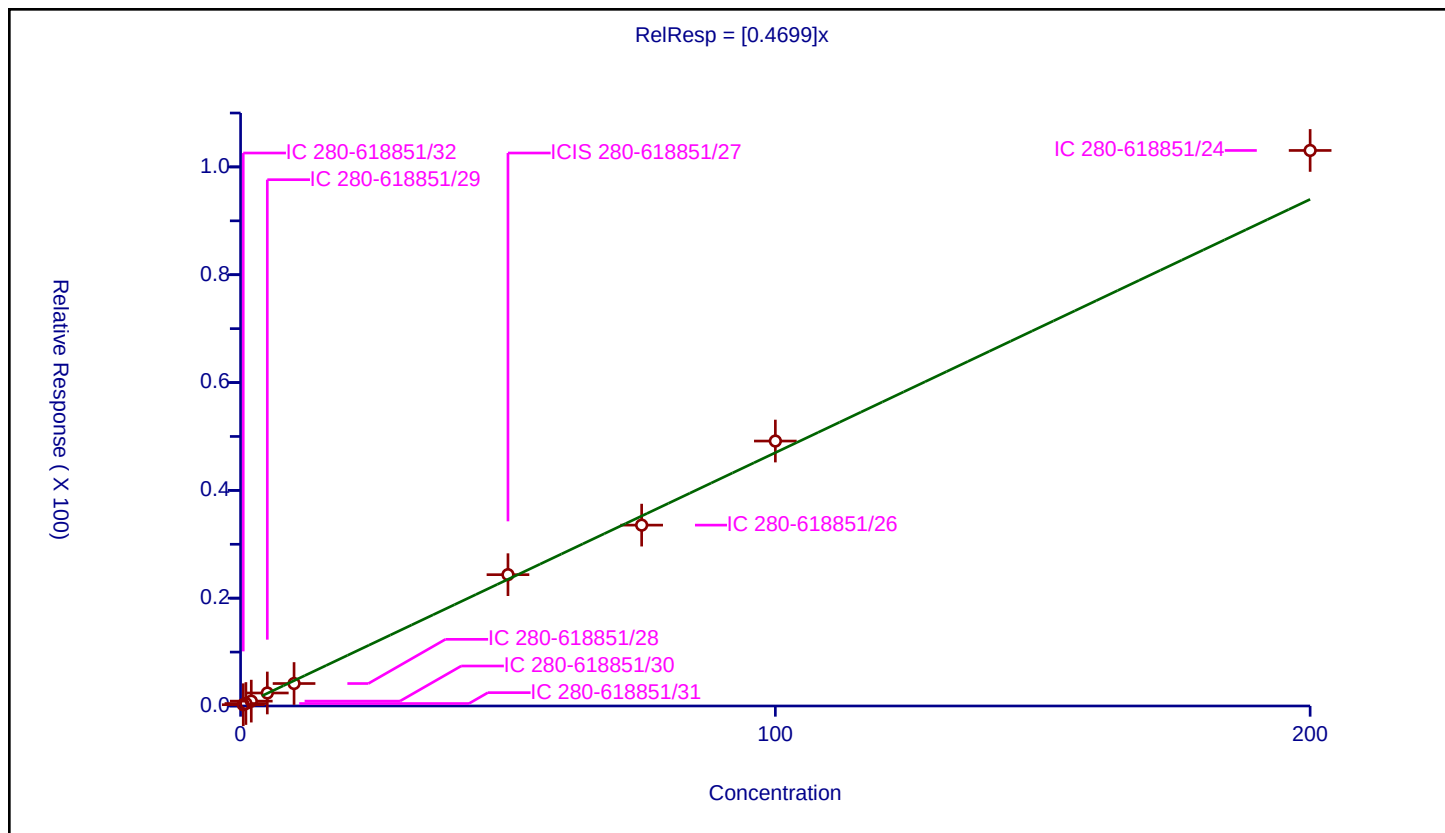
Curve Coefficients

Intercept: 0
Slope: 0.4699

Error Coefficients

Standard Error: 1390000
Relative Standard Error: 6.2
Correlation Coefficient: 0.990
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.239111	50.0	1471704.0	0.478221	Y
2	IC 280-618851/31	1.0	0.458868	50.0	1451943.0	0.458868	Y
3	IC 280-618851/30	2.0	0.904244	50.0	1413778.0	0.452122	Y
4	IC 280-618851/29	5.0	2.41059	50.0	1525415.0	0.482118	Y
5	IC 280-618851/28	10.0	4.166882	50.0	1549276.0	0.416688	Y
6	ICIS 280-618851/27	50.0	24.362295	50.0	1454826.0	0.487246	Y
7	IC 280-618851/26	75.0	33.552672	50.0	1514933.0	0.447369	Y
8	IC 280-618851/25	100.0	49.151359	50.0	1472531.0	0.491514	Y
9	IC 280-618851/24	200.0	103.053853	50.0	1667926.0	0.515269	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

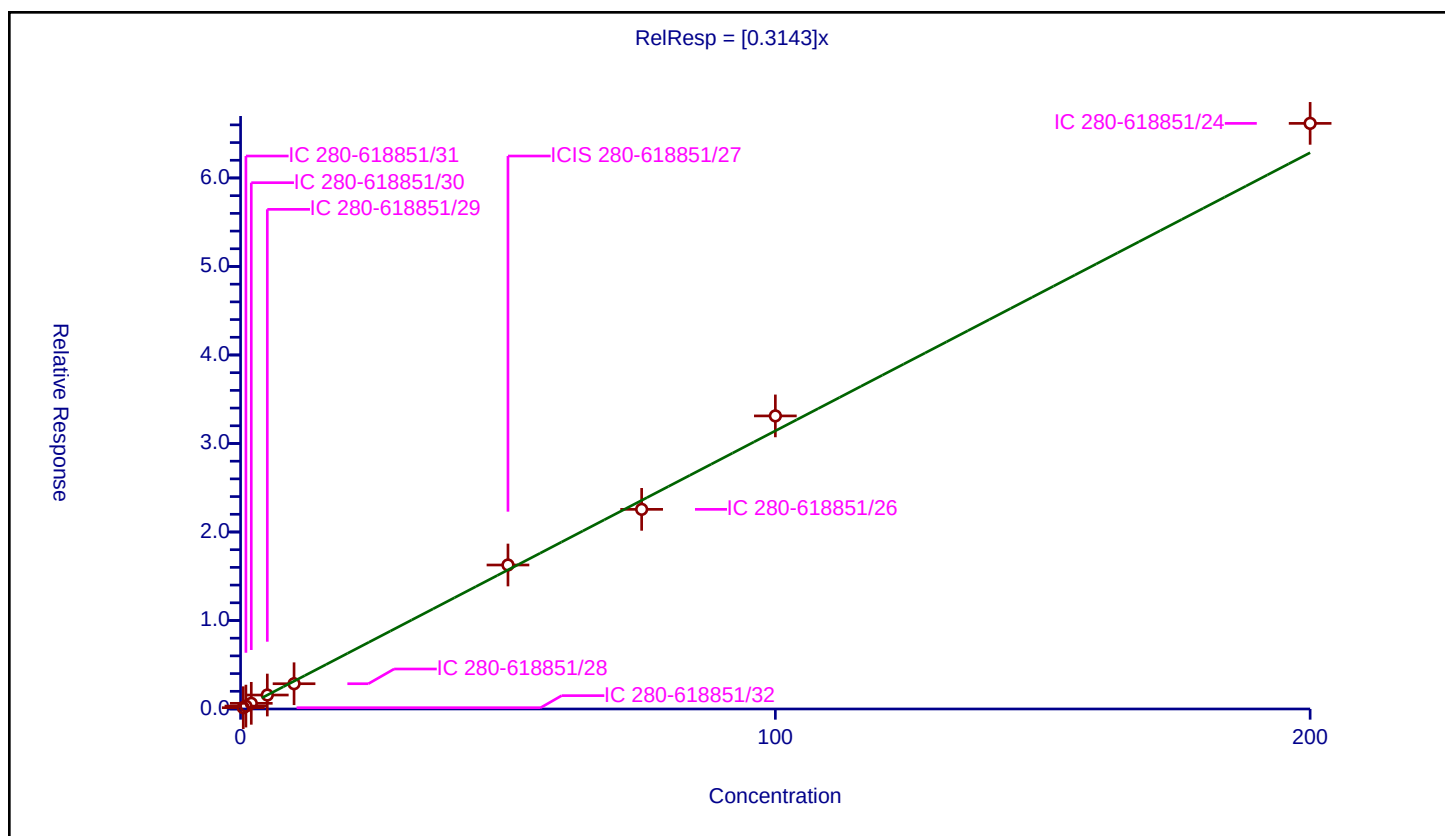
Curve Coefficients

Intercept: 0
Slope: 0.3143

Error Coefficients

Standard Error: 903000
Relative Standard Error: 5.4
Correlation Coefficient: 0.994
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.14704	50.0	1471704.0	0.294081	Y
2	IC 280-618851/31	1.0	0.325667	50.0	1451943.0	0.325667	Y
3	IC 280-618851/30	2.0	0.638997	50.0	1413778.0	0.319499	Y
4	IC 280-618851/29	5.0	1.578423	50.0	1525415.0	0.315685	Y
5	IC 280-618851/28	10.0	2.853623	50.0	1549276.0	0.285362	Y
6	ICIS 280-618851/27	50.0	16.270228	50.0	1454826.0	0.325405	Y
7	IC 280-618851/26	75.0	22.556905	50.0	1514933.0	0.300759	Y
8	IC 280-618851/25	100.0	33.113598	50.0	1472531.0	0.331136	Y
9	IC 280-618851/24	200.0	66.169752	50.0	1667926.0	0.330849	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

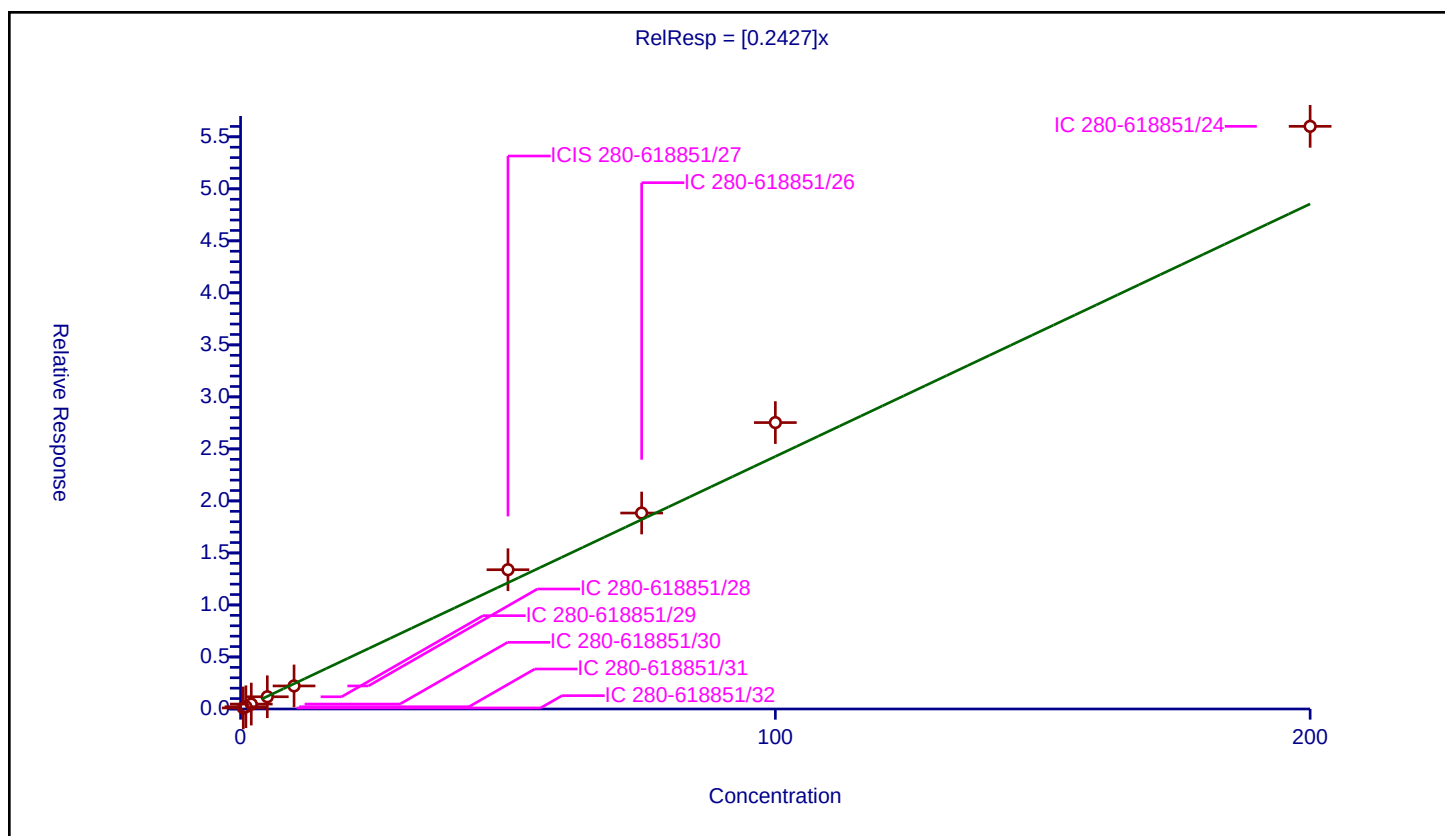
Curve Coefficients

Intercept: 0
 Slope: 0.2427

Error Coefficients

Standard Error: 761000
 Relative Standard Error: 11.4
 Correlation Coefficient: 0.993
 Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.100971	50.0	1471704.0	0.201943	Y
2	IC 280-618851/31	1.0	0.215849	50.0	1451943.0	0.215849	Y
3	IC 280-618851/30	2.0	0.472457	50.0	1413778.0	0.236229	Y
4	IC 280-618851/29	5.0	1.174271	50.0	1525415.0	0.234854	Y
5	IC 280-618851/28	10.0	2.215422	50.0	1549276.0	0.221542	Y
6	ICIS 280-618851/27	50.0	13.387958	50.0	1454826.0	0.267759	Y
7	IC 280-618851/26	75.0	18.837962	50.0	1514933.0	0.251173	Y
8	IC 280-618851/25	100.0	27.532629	50.0	1472531.0	0.275326	Y
9	IC 280-618851/24	200.0	56.007611	50.0	1667926.0	0.280038	Y



Calibration

/ Isobutyl alcohol

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

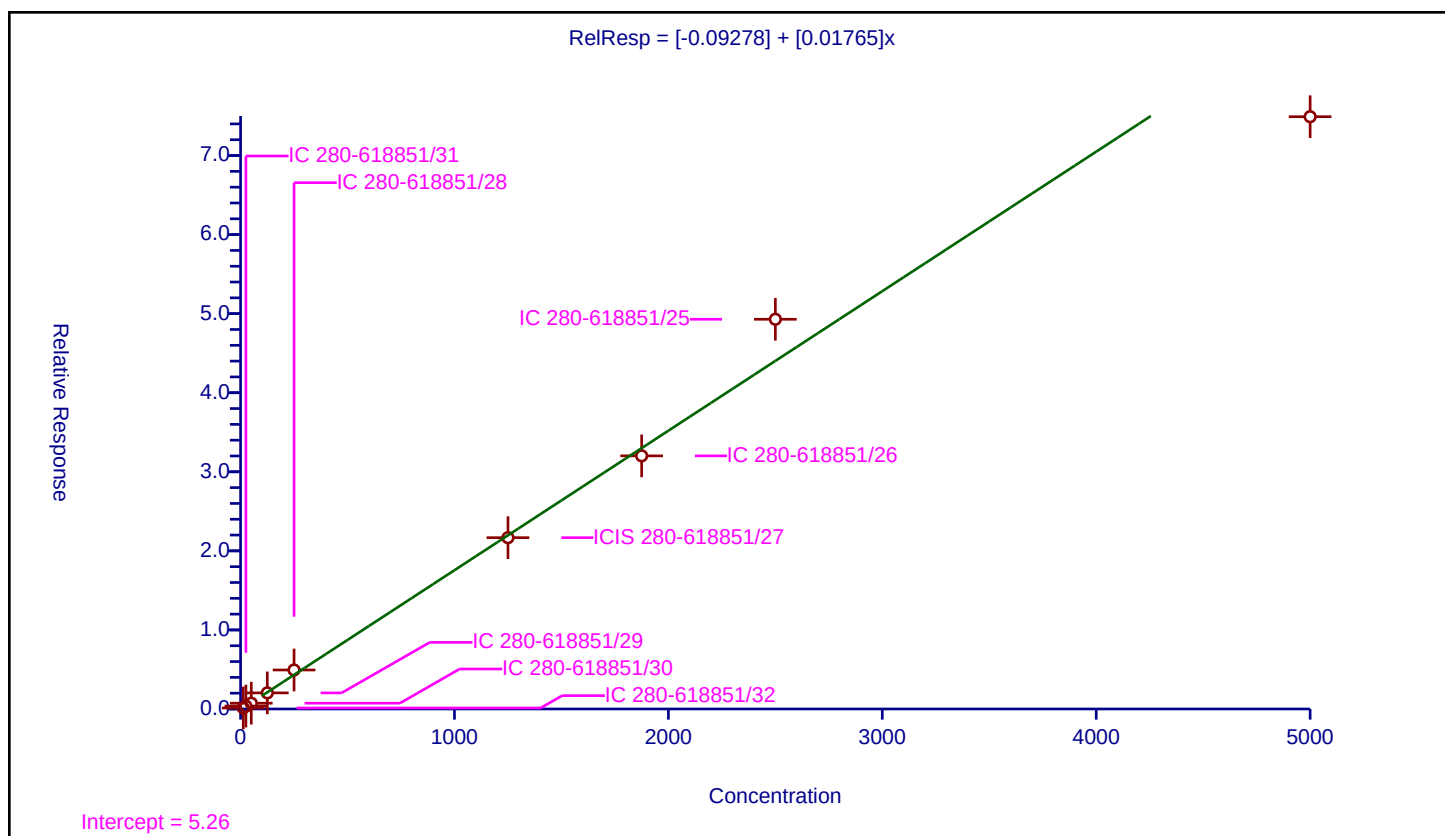
Curve Coefficients

Intercept: -0.09278
 Slope: 0.01765

Error Coefficients

Standard Error: 1180000
 Relative Standard Error: 9.6
 Correlation Coefficient: 0.995
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	12.5	0.125908	50.0	1471704.0	0.010073	Y
2	IC 280-618851/31	25.0	0.367163	50.0	1451943.0	0.014687	Y
3	IC 280-618851/30	50.0	0.732753	50.0	1413778.0	0.014655	Y
4	IC 280-618851/29	125.0	2.035217	50.0	1525415.0	0.016282	Y
5	IC 280-618851/28	250.0	4.932142	50.0	1549276.0	0.019729	Y
6	ICIS 280-618851/27	1250.0	21.667058	50.0	1454826.0	0.017334	Y
7	IC 280-618851/26	1875.0	32.014947	50.0	1514933.0	0.017075	Y
8	IC 280-618851/25	2500.0	49.291798	50.0	1472531.0	0.019717	Y
9	IC 280-618851/24	5000.0	74.912556	50.0	1667926.0	0.014983	Y



Calibration

/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

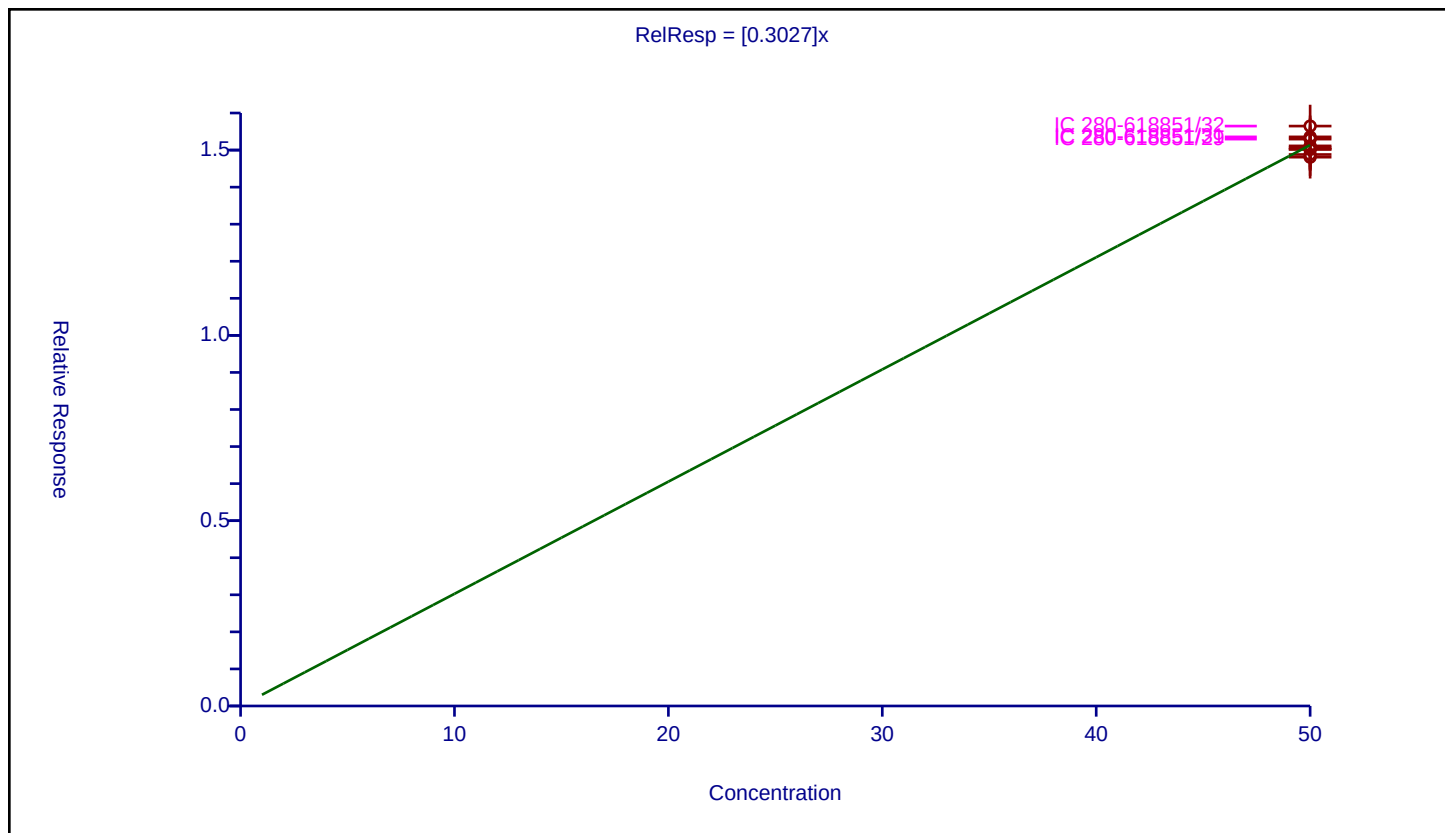
Curve Coefficients

Intercept: 0
 Slope: 0.3027

Error Coefficients

Standard Error: 483000
 Relative Standard Error: 1.7
 Correlation Coefficient: 0
 Coefficient of Determination (Adjusted): 0.000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	50.0	15.647066	50.0	1471704.0	0.312941	Y
2	IC 280-618851/31	50.0	15.35625	50.0	1451943.0	0.307125	Y
3	IC 280-618851/30	50.0	15.017492	50.0	1413778.0	0.30035	Y
4	IC 280-618851/29	50.0	15.295477	50.0	1525415.0	0.30591	Y
5	IC 280-618851/28	50.0	15.113124	50.0	1549276.0	0.302262	Y
6	ICIS 280-618851/27	50.0	15.028464	50.0	1454826.0	0.300569	Y
7	IC 280-618851/26	50.0	14.88046	50.0	1514933.0	0.297609	Y
8	IC 280-618851/25	50.0	14.808245	50.0	1472531.0	0.296165	Y
9	IC 280-618851/24	50.0	15.063348	50.0	1667926.0	0.301267	Y



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

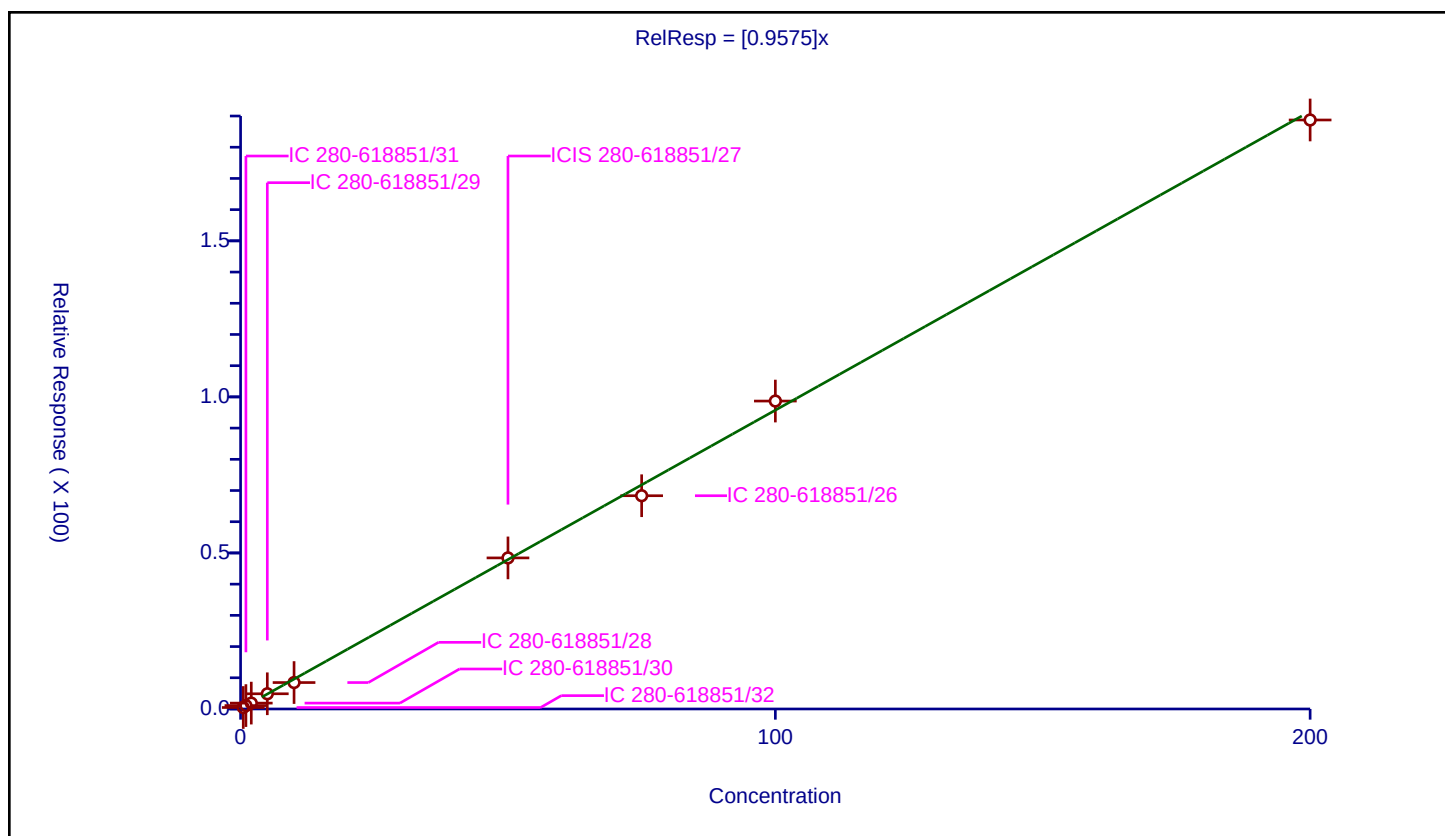
Curve Coefficients

Intercept: 0
Slope: 0.9575

Error Coefficients

Standard Error: 2610000
Relative Standard Error: 6.8
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.477644	50.0	1471704.0	0.955287	Y
2	IC 280-618851/31	1.0	1.090332	50.0	1451943.0	1.090332	Y
3	IC 280-618851/30	2.0	1.879892	50.0	1413778.0	0.939946	Y
4	IC 280-618851/29	5.0	4.873625	50.0	1525415.0	0.974725	Y
5	IC 280-618851/28	10.0	8.472764	50.0	1549276.0	0.847276	Y
6	ICIS 280-618851/27	50.0	48.40651	50.0	1454826.0	0.96813	Y
7	IC 280-618851/26	75.0	68.335596	50.0	1514933.0	0.911141	Y
8	IC 280-618851/25	100.0	98.669638	50.0	1472531.0	0.986696	Y
9	IC 280-618851/24	200.0	188.723481	50.0	1667926.0	0.943617	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

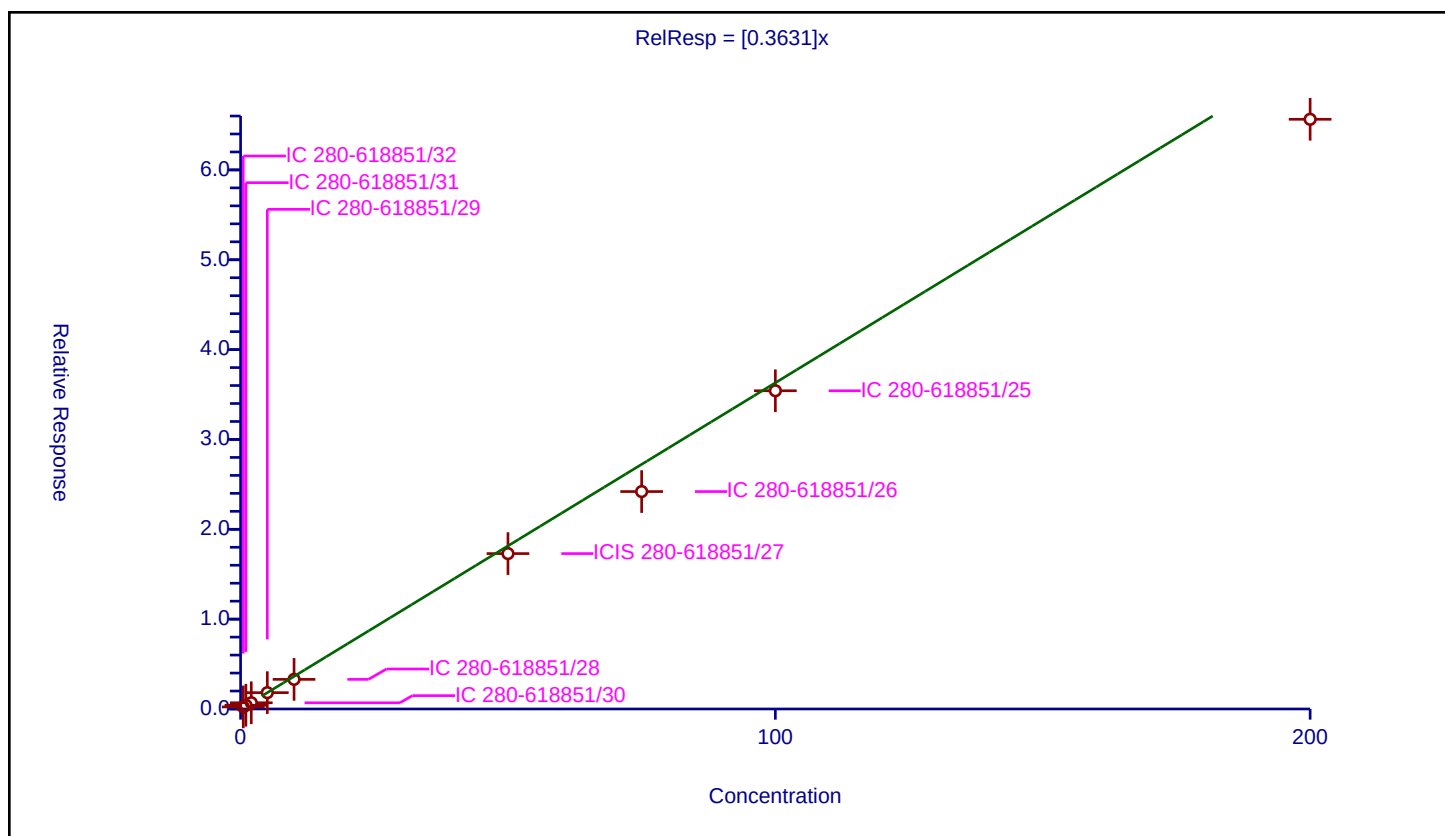
Curve Coefficients

Intercept: 0
Slope: 0.3631

Error Coefficients

Standard Error: 914000
Relative Standard Error: 12.7
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.229904	50.0	1471704.0	0.459807	Y
2	IC 280-618851/31	1.0	0.417441	50.0	1451943.0	0.417441	Y
3	IC 280-618851/30	2.0	0.692754	50.0	1413778.0	0.346377	Y
4	IC 280-618851/29	5.0	1.817571	50.0	1525415.0	0.363514	Y
5	IC 280-618851/28	10.0	3.294958	50.0	1549276.0	0.329496	Y
6	ICIS 280-618851/27	50.0	17.297498	50.0	1454826.0	0.34595	Y
7	IC 280-618851/26	75.0	24.200179	50.0	1514933.0	0.322669	Y
8	IC 280-618851/25	100.0	35.418507	50.0	1472531.0	0.354185	Y
9	IC 280-618851/24	200.0	65.635136	50.0	1667926.0	0.328176	Y



Calibration

/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

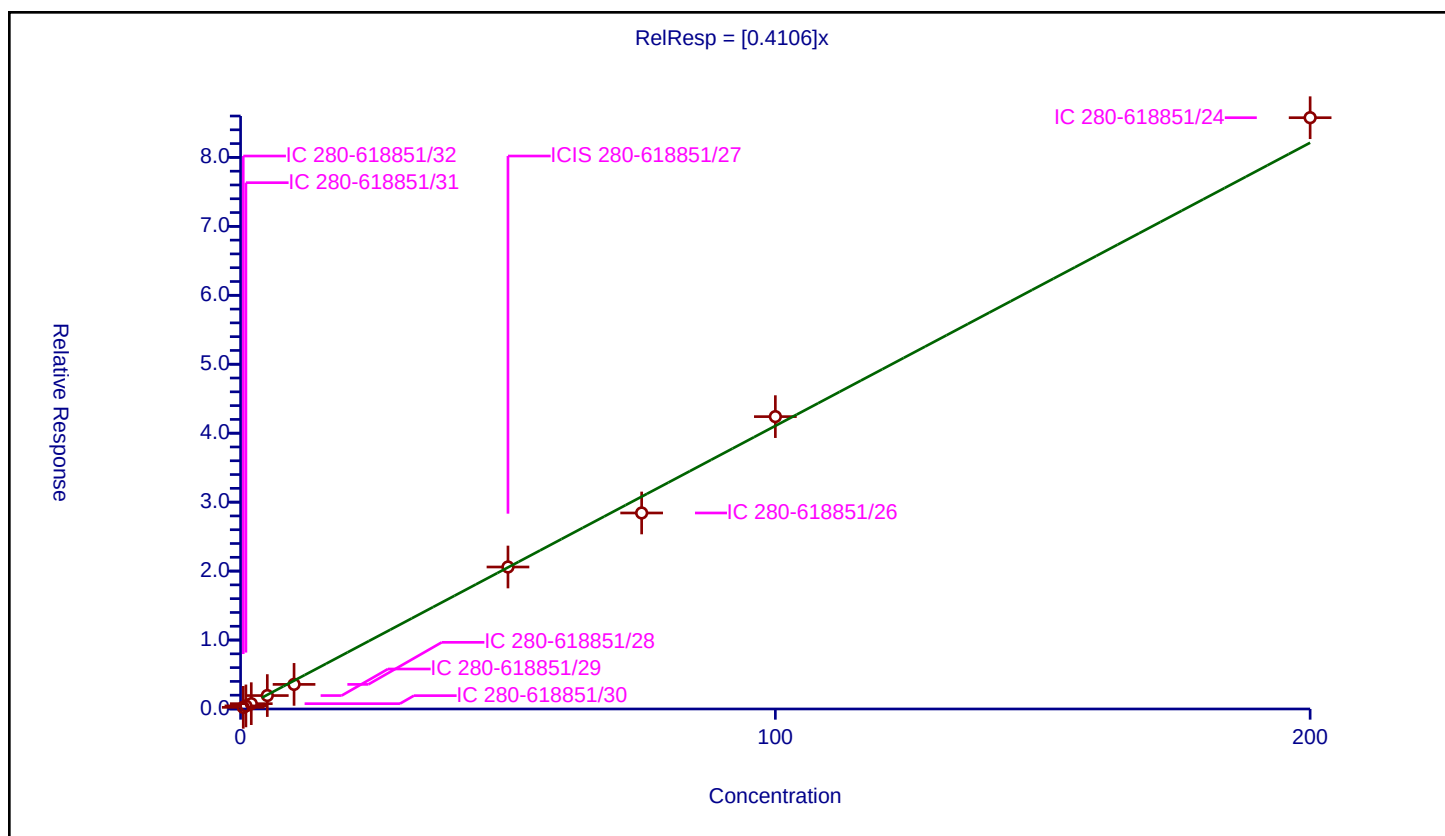
Curve Coefficients

Intercept: 0
Slope: 0.4106

Error Coefficients

Standard Error: 1170000
Relative Standard Error: 8.9
Correlation Coefficient: 0.993
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.236325	50.0	1471704.0	0.472649	Y
2	IC 280-618851/31	1.0	0.446953	50.0	1451943.0	0.446953	Y
3	IC 280-618851/30	2.0	0.771691	50.0	1413778.0	0.385846	Y
4	IC 280-618851/29	5.0	1.948814	50.0	1525415.0	0.389763	Y
5	IC 280-618851/28	10.0	3.566537	50.0	1549276.0	0.356654	Y
6	ICIS 280-618851/27	50.0	20.594181	50.0	1454826.0	0.411884	Y
7	IC 280-618851/26	75.0	28.429079	50.0	1514933.0	0.379054	Y
8	IC 280-618851/25	100.0	42.403352	50.0	1472531.0	0.424034	Y
9	IC 280-618851/24	200.0	85.756083	50.0	1667926.0	0.42878	Y



Calibration

/ Trichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

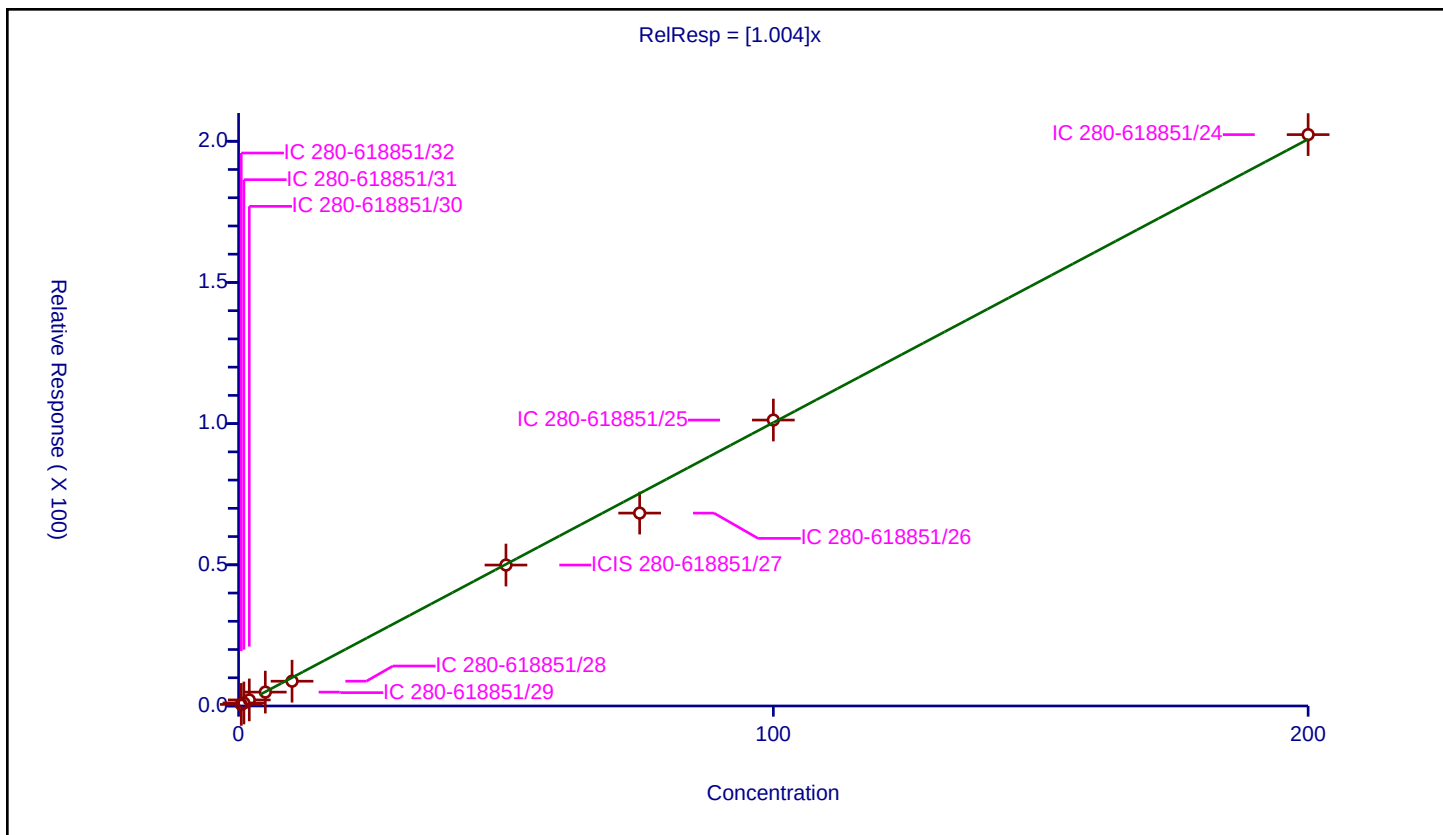
Curve Coefficients

Intercept: 0
 Slope: 1.004

Error Coefficients

Standard Error: 675000
 Relative Standard Error: 7.3
 Correlation Coefficient: 0.994
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.550966	50.0	372618.0	1.101933	Y
2	IC 280-618851/31	1.0	1.063513	50.0	362196.0	1.063513	Y
3	IC 280-618851/30	2.0	2.143772	50.0	350387.0	1.071886	Y
4	IC 280-618851/29	5.0	4.919909	50.0	390180.0	0.983982	Y
5	IC 280-618851/28	10.0	8.780005	50.0	392682.0	0.878001	Y
6	ICIS 280-618851/27	50.0	49.91626	50.0	359447.0	0.998325	Y
7	IC 280-618851/26	75.0	68.311454	50.0	374334.0	0.910819	Y
8	IC 280-618851/25	100.0	101.265457	50.0	361569.0	1.012655	Y
9	IC 280-618851/24	200.0	202.351095	50.0	407257.0	1.011755	Y



Calibration

/ 2-Pentanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

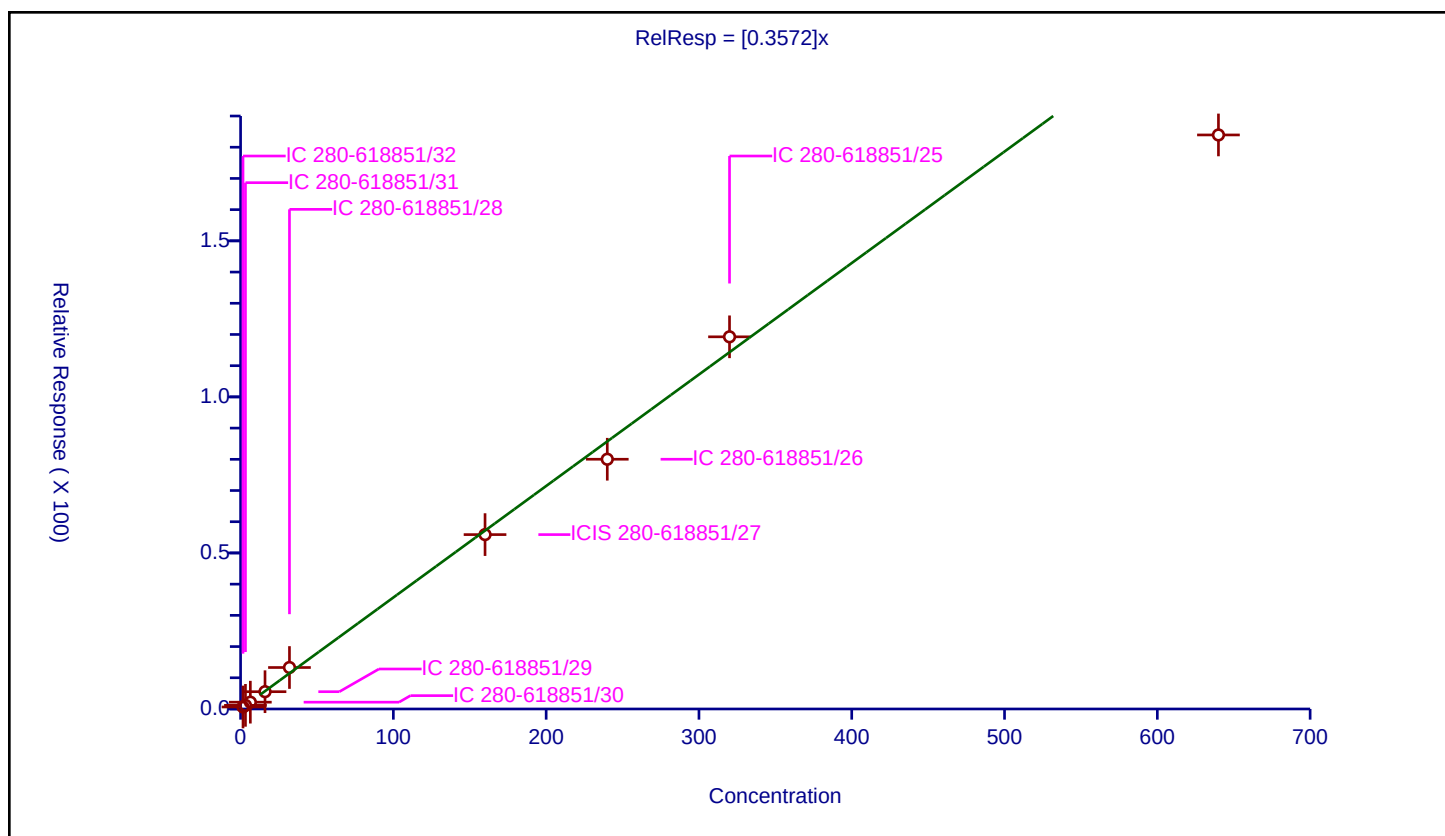
Curve Coefficients

Intercept: 0
Slope: 0.3572

Error Coefficients

Standard Error: 2710000
Relative Standard Error: 10.8
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	1.6	0.649145	50.0	1471704.0	0.405716	Y
2	IC 280-618851/31	3.2	1.165679	50.0	1451943.0	0.364275	Y
3	IC 280-618851/30	6.4	2.17902	50.0	1413778.0	0.340472	Y
4	IC 280-618851/29	16.0	5.545147	50.0	1525415.0	0.346572	Y
5	IC 280-618851/28	32.0	13.289433	50.0	1549276.0	0.415295	Y
6	ICIS 280-618851/27	160.0	55.875514	50.0	1454826.0	0.349222	Y
7	IC 280-618851/26	240.0	80.027533	50.0	1514933.0	0.333448	Y
8	IC 280-618851/25	320.0	119.24968	50.0	1472531.0	0.372655	Y
9	IC 280-618851/24	640.0	183.935318	50.0	1667926.0	0.287399	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

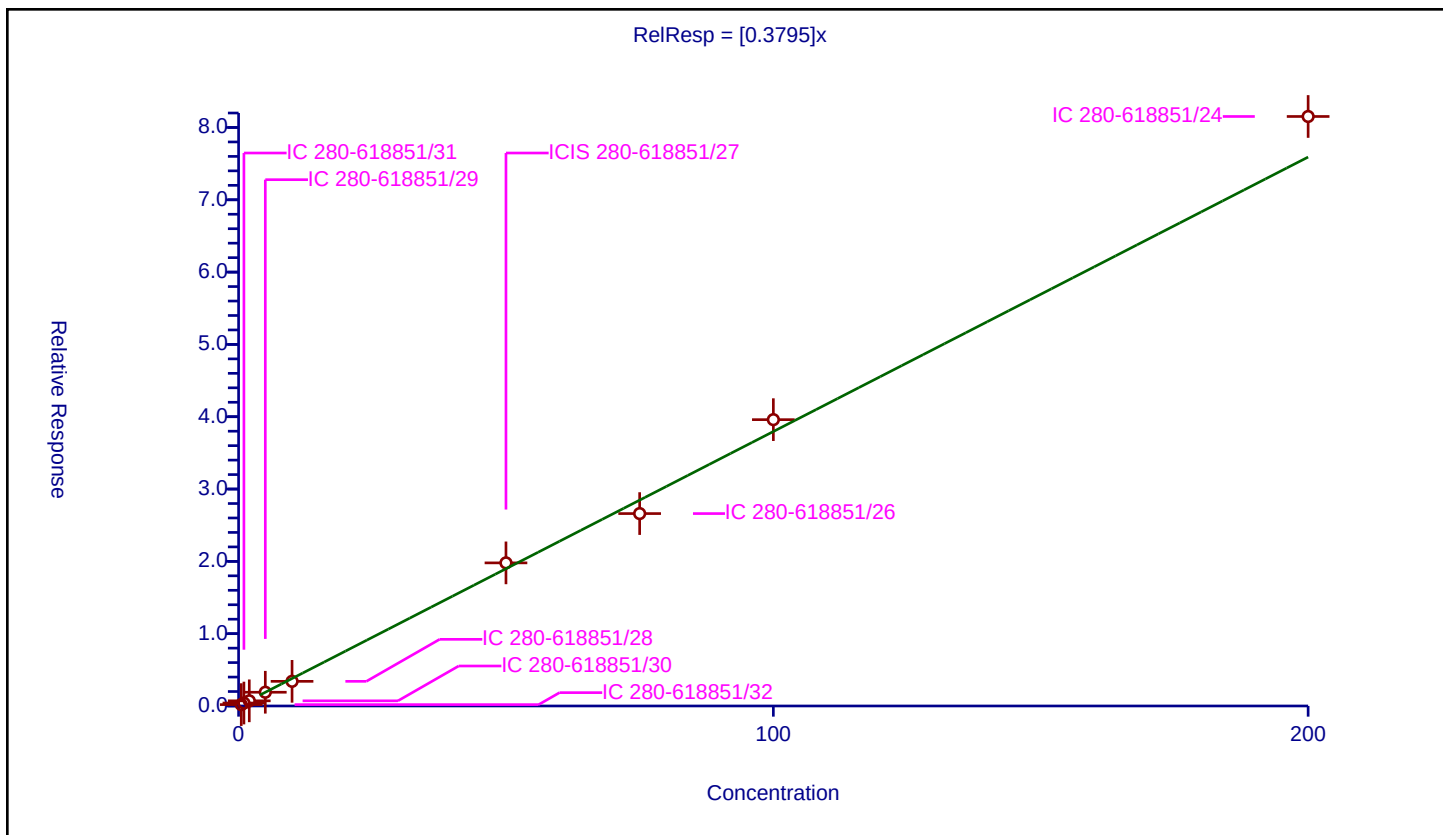
Curve Coefficients

Intercept: 0
 Slope: 0.3795

Error Coefficients

Standard Error: 1100000
 Relative Standard Error: 6.4
 Correlation Coefficient: 0.991
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.188149	50.0	1471704.0	0.376298	Y
2	IC 280-618851/31	1.0	0.406696	50.0	1451943.0	0.406696	Y
3	IC 280-618851/30	2.0	0.715141	50.0	1413778.0	0.35757	Y
4	IC 280-618851/29	5.0	1.901286	50.0	1525415.0	0.380257	Y
5	IC 280-618851/28	10.0	3.409722	50.0	1549276.0	0.340972	Y
6	ICIS 280-618851/27	50.0	19.788964	50.0	1454826.0	0.395779	Y
7	IC 280-618851/26	75.0	26.60989	50.0	1514933.0	0.354799	Y
8	IC 280-618851/25	100.0	39.596688	50.0	1472531.0	0.395967	Y
9	IC 280-618851/24	200.0	81.520133	50.0	1667926.0	0.407601	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

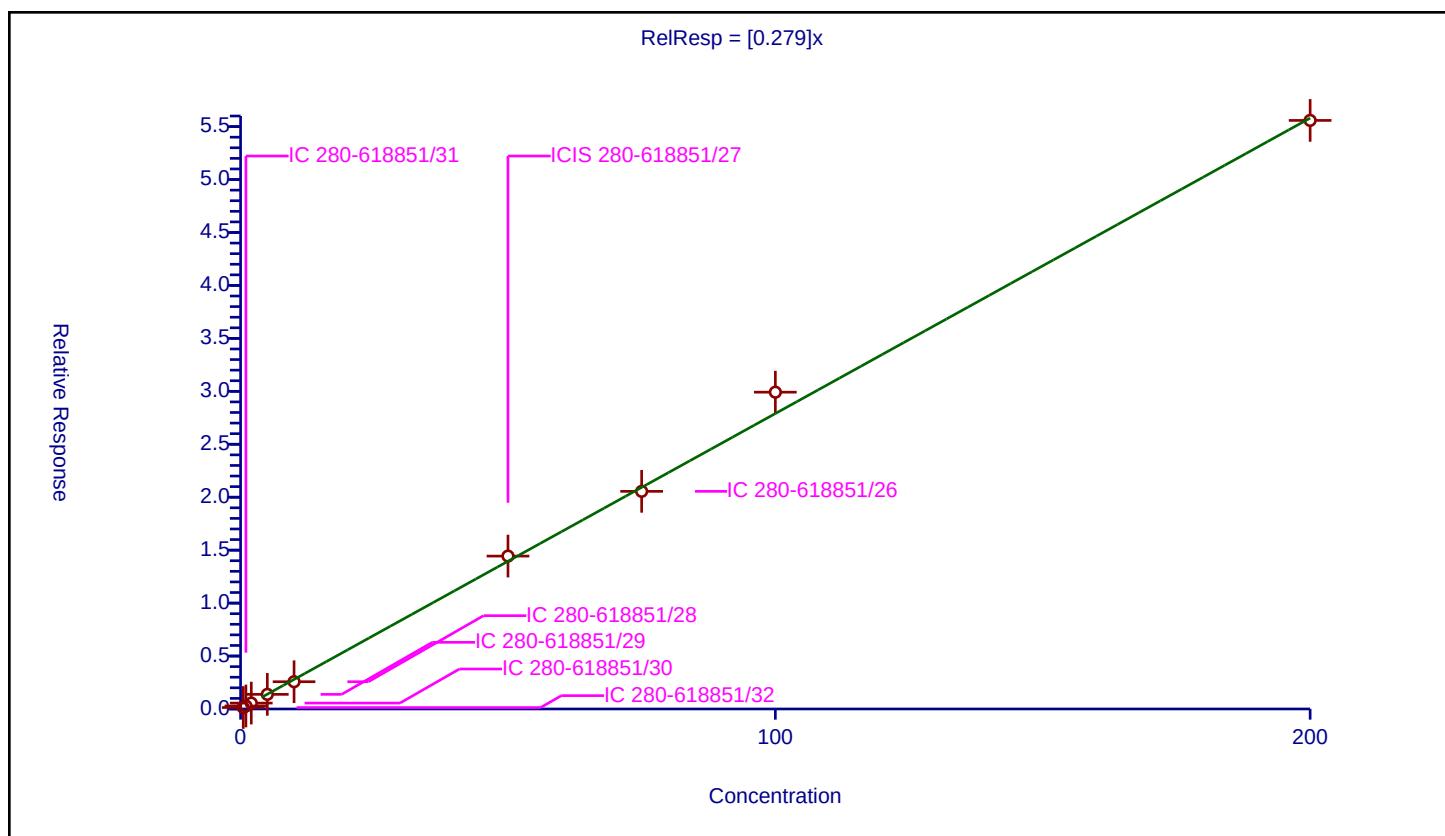
Curve Coefficients

Intercept: 0
 Slope: 0.279

Error Coefficients

Standard Error: 774000
 Relative Standard Error: 4.1
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.13712	50.0	1471704.0	0.27424	Y
2	IC 280-618851/31	1.0	0.284412	50.0	1451943.0	0.284412	Y
3	IC 280-618851/30	2.0	0.557266	50.0	1413778.0	0.278633	Y
4	IC 280-618851/29	5.0	1.381821	50.0	1525415.0	0.276364	Y
5	IC 280-618851/28	10.0	2.575622	50.0	1549276.0	0.257562	Y
6	ICIS 280-618851/27	50.0	14.438737	50.0	1454826.0	0.288775	Y
7	IC 280-618851/26	75.0	20.553615	50.0	1514933.0	0.274048	Y
8	IC 280-618851/25	100.0	29.919132	50.0	1472531.0	0.299191	Y
9	IC 280-618851/24	200.0	55.58517	50.0	1667926.0	0.277926	Y



Calibration

/ 1,4-Dioxane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

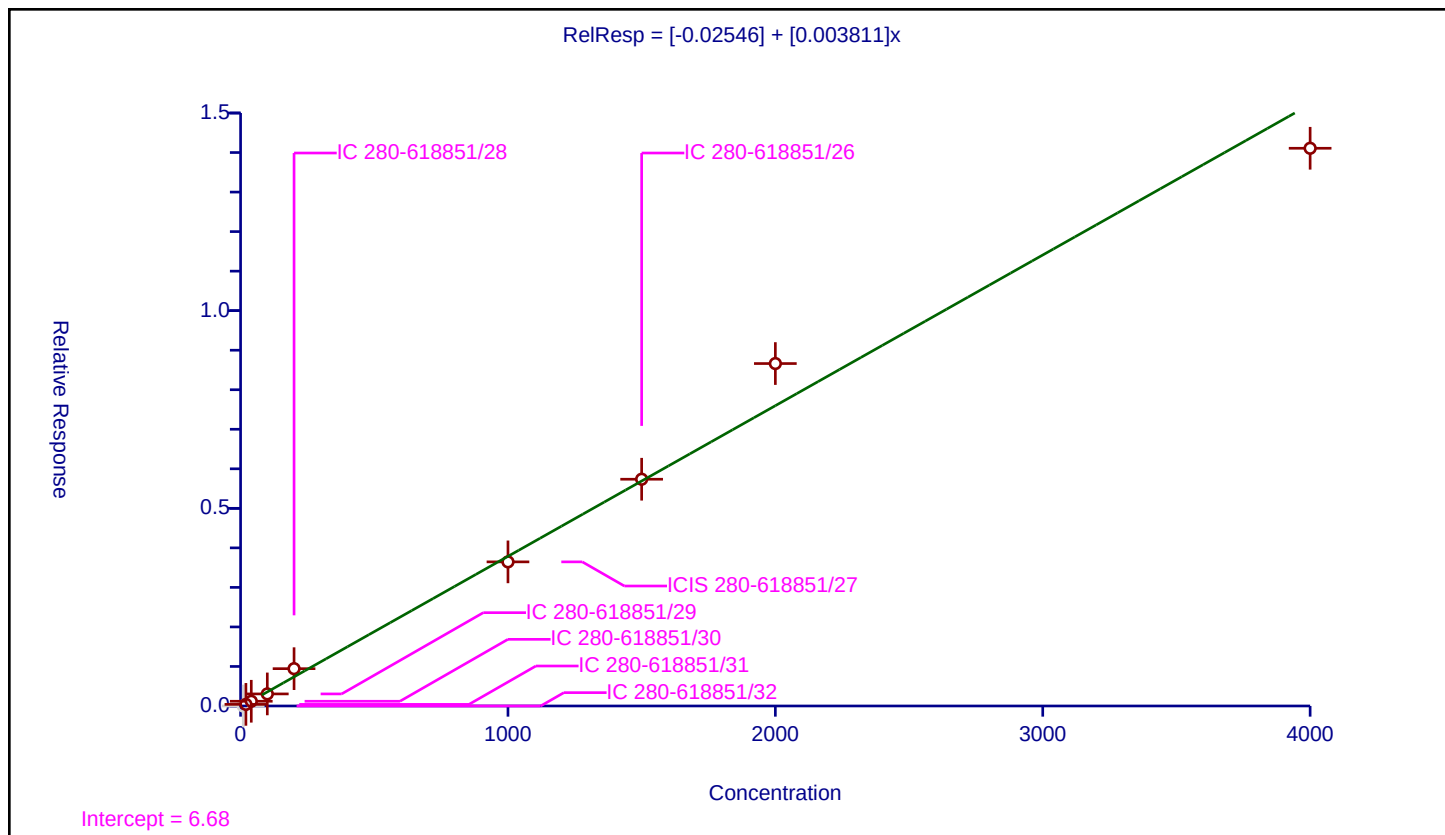
Curve Coefficients

Intercept: -0.02546
 Slope: 0.003811

Error Coefficients

Standard Error: 234000
 Relative Standard Error: 15.1
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	10.0	0.0	50.0	1471704.0	0.0	N
2	IC 280-618851/31	20.0	0.040911	50.0	1451943.0	0.002046	Y
3	IC 280-618851/30	40.0	0.119573	50.0	1413778.0	0.002989	Y
4	IC 280-618851/29	100.0	0.305294	50.0	1525415.0	0.003053	Y
5	IC 280-618851/28	200.0	0.943893	50.0	1549276.0	0.004719	Y
6	ICIS 280-618851/27	1000.0	3.645659	50.0	1454826.0	0.003646	Y
7	IC 280-618851/26	1500.0	5.73626	50.0	1514933.0	0.003824	Y
8	IC 280-618851/25	2000.0	8.662195	50.0	1472531.0	0.004331	Y
9	IC 280-618851/24	4000.0	14.10827	50.0	1667926.0	0.003527	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

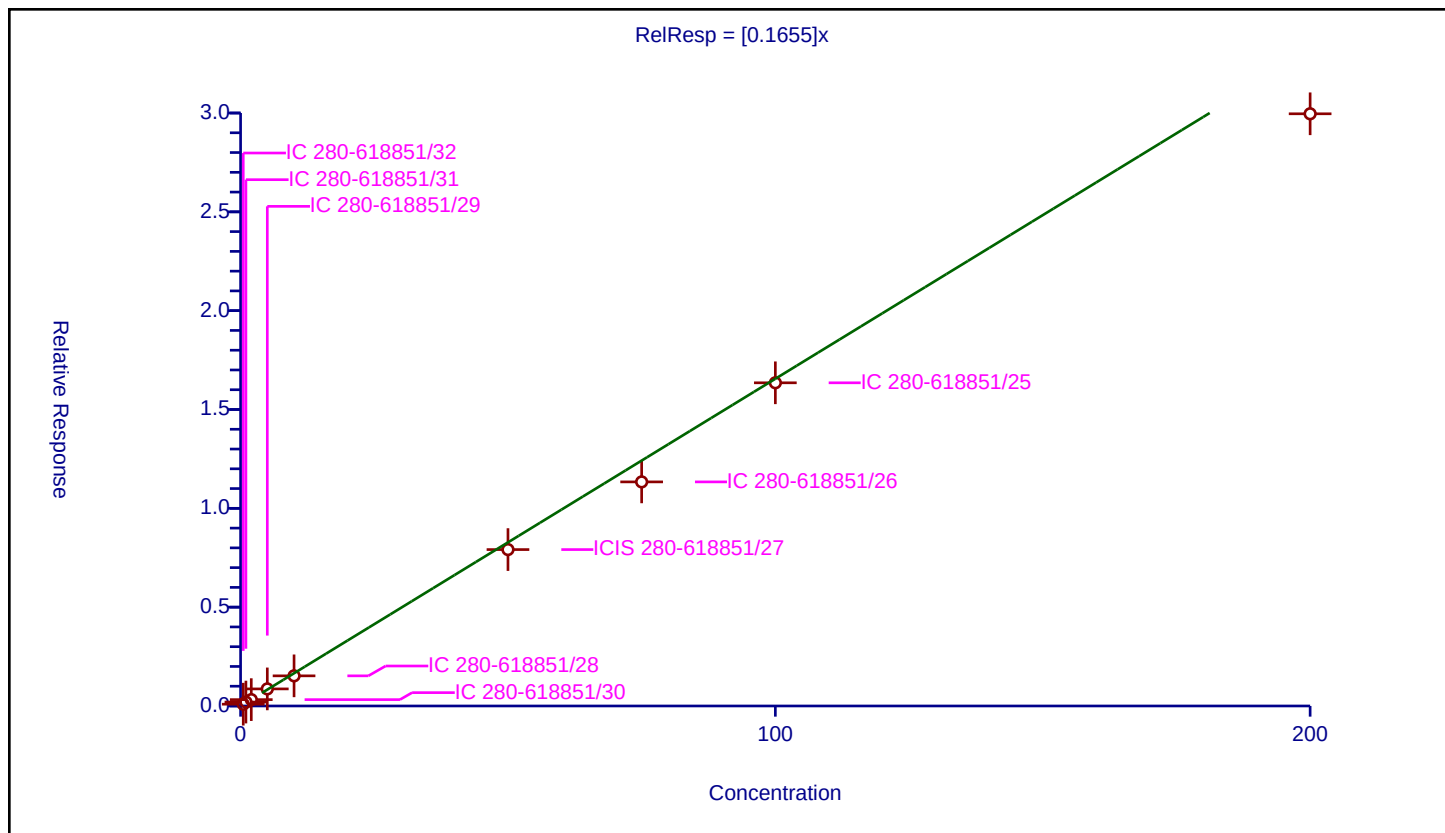
Curve Coefficients

Intercept: 0
Slope: 0.1655

Error Coefficients

Standard Error: 419000
Relative Standard Error: 9.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.090507	50.0	1471704.0	0.181015	Y
2	IC 280-618851/31	1.0	0.199595	50.0	1451943.0	0.199595	Y
3	IC 280-618851/30	2.0	0.322292	50.0	1413778.0	0.161146	Y
4	IC 280-618851/29	5.0	0.86465	50.0	1525415.0	0.17293	Y
5	IC 280-618851/28	10.0	1.524777	50.0	1549276.0	0.152478	Y
6	ICIS 280-618851/27	50.0	7.913008	50.0	1454826.0	0.15826	Y
7	IC 280-618851/26	75.0	11.337102	50.0	1514933.0	0.151161	Y
8	IC 280-618851/25	100.0	16.351303	50.0	1472531.0	0.163513	Y
9	IC 280-618851/24	200.0	29.961161	50.0	1667926.0	0.149806	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

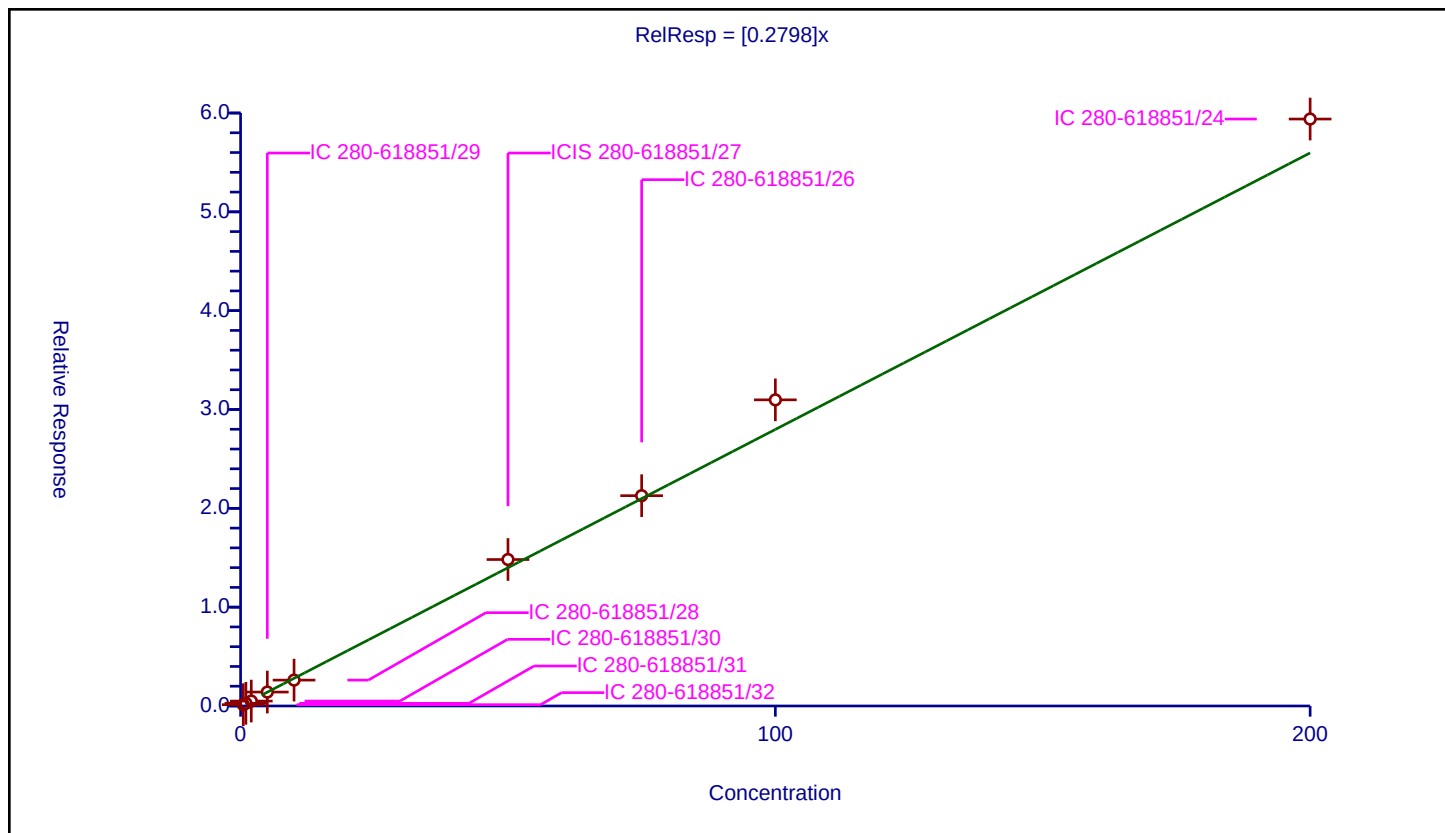
Curve Coefficients

Intercept: 0
 Slope: 0.2798

Error Coefficients

Standard Error: 819000
 Relative Standard Error: 6.9
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.133892	50.0	1471704.0	0.267785	Y
2	IC 280-618851/31	1.0	0.270465	50.0	1451943.0	0.270465	Y
3	IC 280-618851/30	2.0	0.498805	50.0	1413778.0	0.249403	Y
4	IC 280-618851/29	5.0	1.410436	50.0	1525415.0	0.282087	Y
5	IC 280-618851/28	10.0	2.617481	50.0	1549276.0	0.261748	Y
6	ICIS 280-618851/27	50.0	14.820673	50.0	1454826.0	0.296413	Y
7	IC 280-618851/26	75.0	21.279522	50.0	1514933.0	0.283727	Y
8	IC 280-618851/25	100.0	30.976088	50.0	1472531.0	0.309761	Y
9	IC 280-618851/24	200.0	59.390734	50.0	1667926.0	0.296954	Y



Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

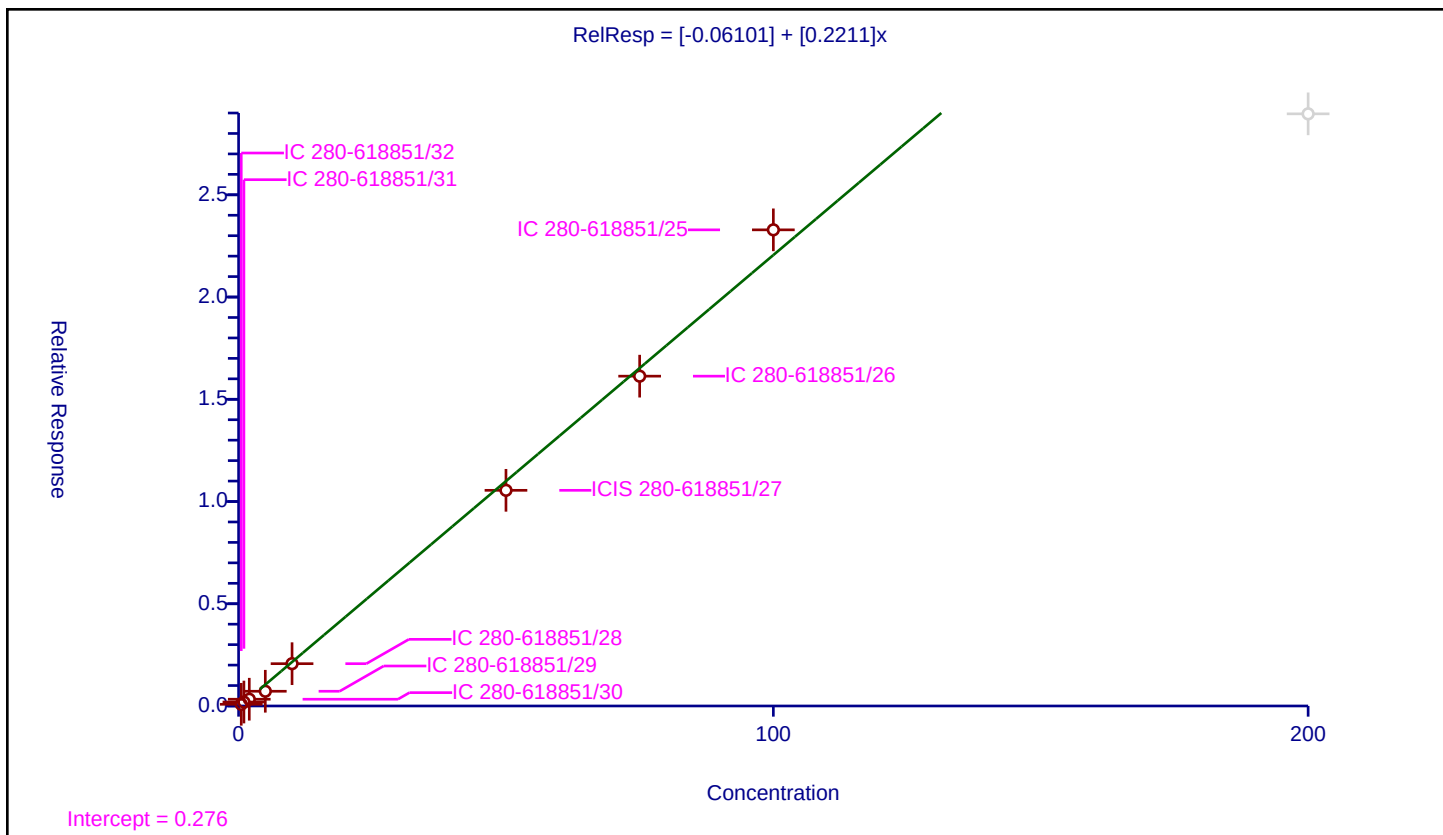
Curve Coefficients

Intercept: -0.06101
Slope: 0.2211

Error Coefficients

Standard Error: 367000
Relative Standard Error: 19.1
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.082897	50.0	1471704.0	0.165794	Y
2	IC 280-618851/31	1.0	0.193844	50.0	1451943.0	0.193844	Y
3	IC 280-618851/30	2.0	0.330108	50.0	1413778.0	0.165054	Y
4	IC 280-618851/29	5.0	0.721017	50.0	1525415.0	0.144203	Y
5	IC 280-618851/28	10.0	2.069354	50.0	1549276.0	0.206935	Y
6	ICIS 280-618851/27	50.0	10.547103	50.0	1454826.0	0.210942	Y
7	IC 280-618851/26	75.0	16.130218	50.0	1514933.0	0.21507	Y
8	IC 280-618851/25	100.0	23.286912	50.0	1472531.0	0.232869	Y
9	IC 280-618851/24	200.0	28.958989	50.0	1667926.0	0.144795	N



Calibration

/ cis-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

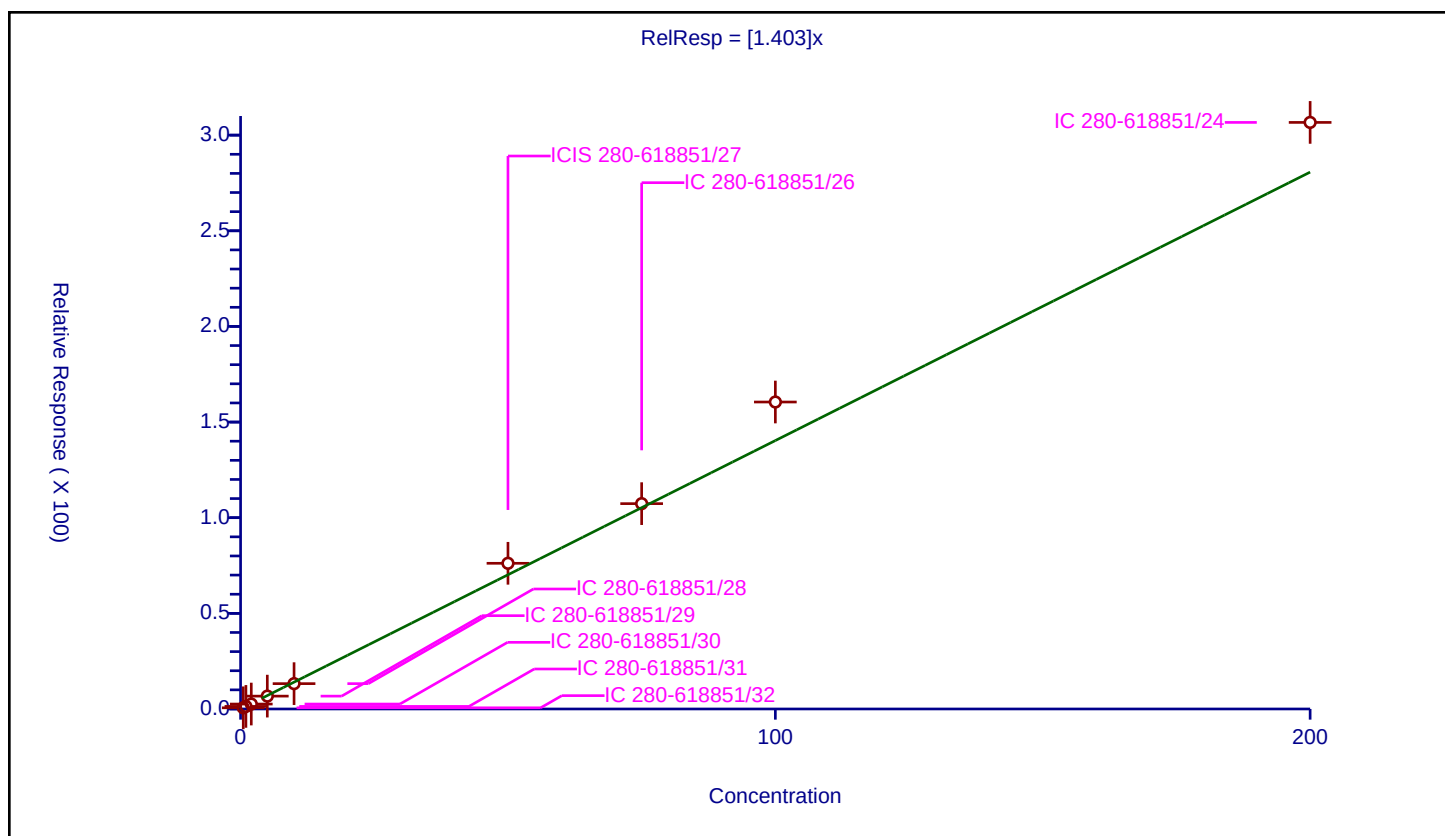
Curve Coefficients

Intercept: 0
Slope: 1.403

Error Coefficients

Standard Error: 1030000
Relative Standard Error: 9.0
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.614705	50.0	372618.0	1.229409	Y
2	IC 280-618851/31	1.0	1.341953	50.0	362196.0	1.341953	Y
3	IC 280-618851/30	2.0	2.590421	50.0	350387.0	1.295211	Y
4	IC 280-618851/29	5.0	6.731765	50.0	390180.0	1.346353	Y
5	IC 280-618851/28	10.0	13.244687	50.0	392682.0	1.324469	Y
6	ICIS 280-618851/27	50.0	76.163941	50.0	359447.0	1.523279	Y
7	IC 280-618851/26	75.0	107.353727	50.0	374334.0	1.431383	Y
8	IC 280-618851/25	100.0	160.482093	50.0	361569.0	1.604821	Y
9	IC 280-618851/24	200.0	306.654643	50.0	407257.0	1.533273	Y



Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

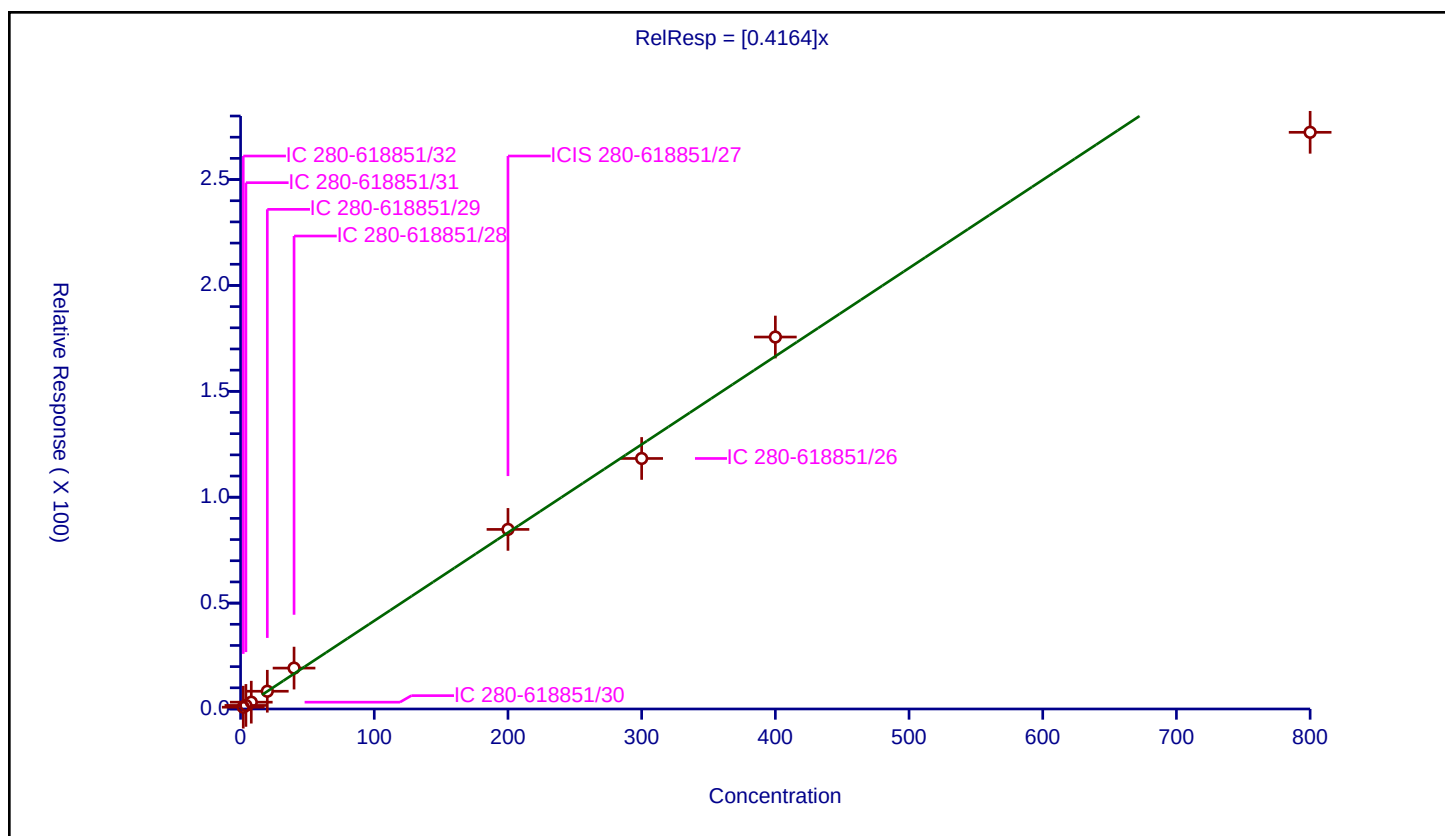
Curve Coefficients

Intercept: 0
 Slope: 0.4164

Error Coefficients

Standard Error: 4010000
 Relative Standard Error: 9.1
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	2.0	0.848744	50.0	1471704.0	0.424372	Y
2	IC 280-618851/31	4.0	1.68364	50.0	1451943.0	0.42091	Y
3	IC 280-618851/30	8.0	3.219706	50.0	1413778.0	0.402463	Y
4	IC 280-618851/29	20.0	8.383817	50.0	1525415.0	0.419191	Y
5	IC 280-618851/28	40.0	19.311052	50.0	1549276.0	0.482776	Y
6	ICIS 280-618851/27	200.0	84.805537	50.0	1454826.0	0.424028	Y
7	IC 280-618851/26	300.0	118.300512	50.0	1514933.0	0.394335	Y
8	IC 280-618851/25	400.0	175.63671	50.0	1472531.0	0.439092	Y
9	IC 280-618851/24	800.0	272.302039	50.0	1667926.0	0.340378	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

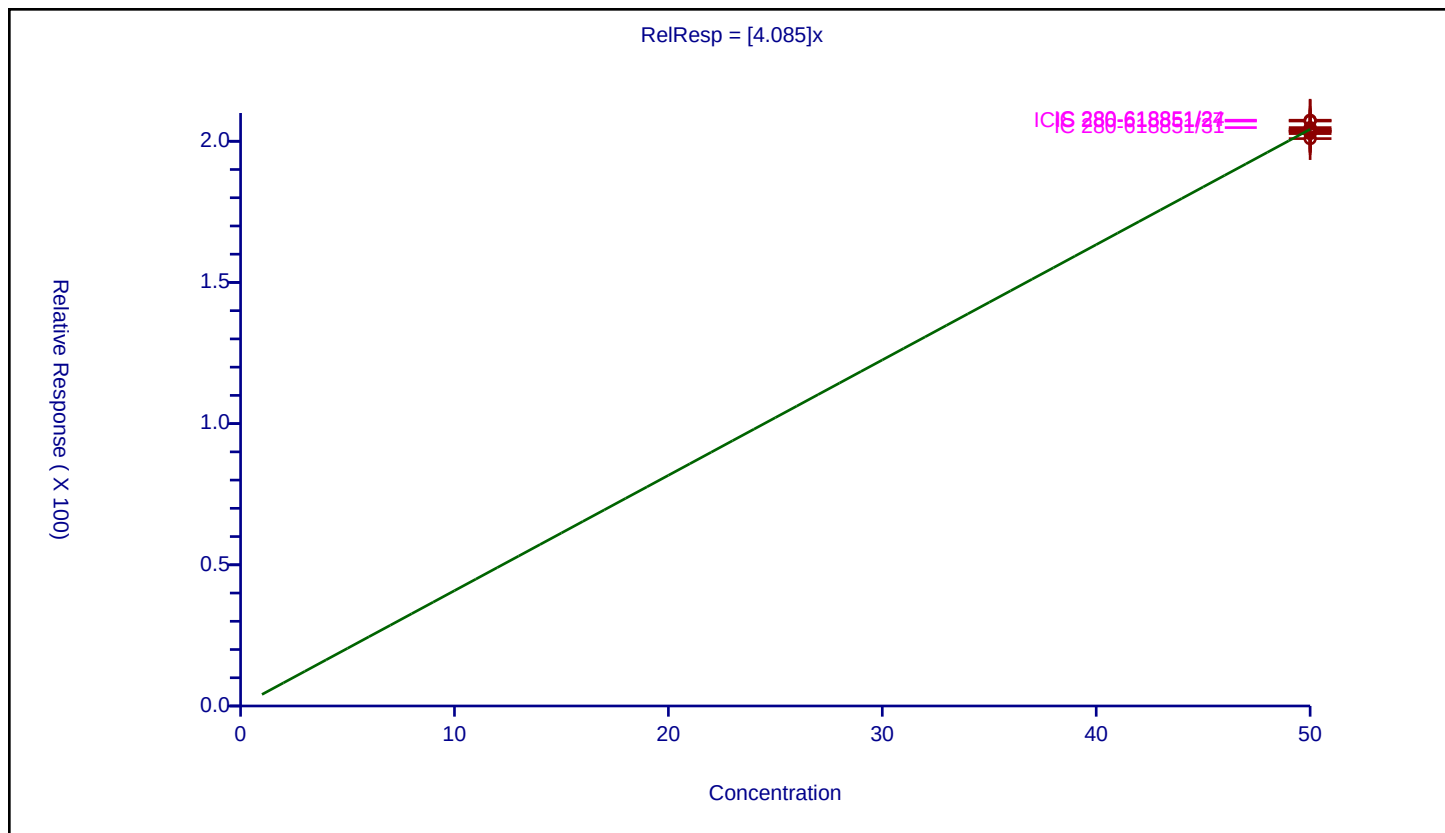
Curve Coefficients

Intercept: 0
 Slope: 4.085

Error Coefficients

Standard Error: 1620000
 Relative Standard Error: 1.0
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	50.0	202.712564	50.0	372618.0	4.054251	Y
2	IC 280-618851/31	50.0	204.837022	50.0	362196.0	4.09674	Y
3	IC 280-618851/30	50.0	204.229324	50.0	350387.0	4.084586	Y
4	IC 280-618851/29	50.0	203.416756	50.0	390180.0	4.068335	Y
5	IC 280-618851/28	50.0	200.930779	50.0	392682.0	4.018616	Y
6	ICIS 280-618851/27	50.0	207.163643	50.0	359447.0	4.143273	Y
7	IC 280-618851/26	50.0	203.567536	50.0	374334.0	4.071351	Y
8	IC 280-618851/25	50.0	203.811029	50.0	361569.0	4.076221	Y
9	IC 280-618851/24	50.0	207.448368	50.0	407257.0	4.148967	Y



Calibration

/ Toluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

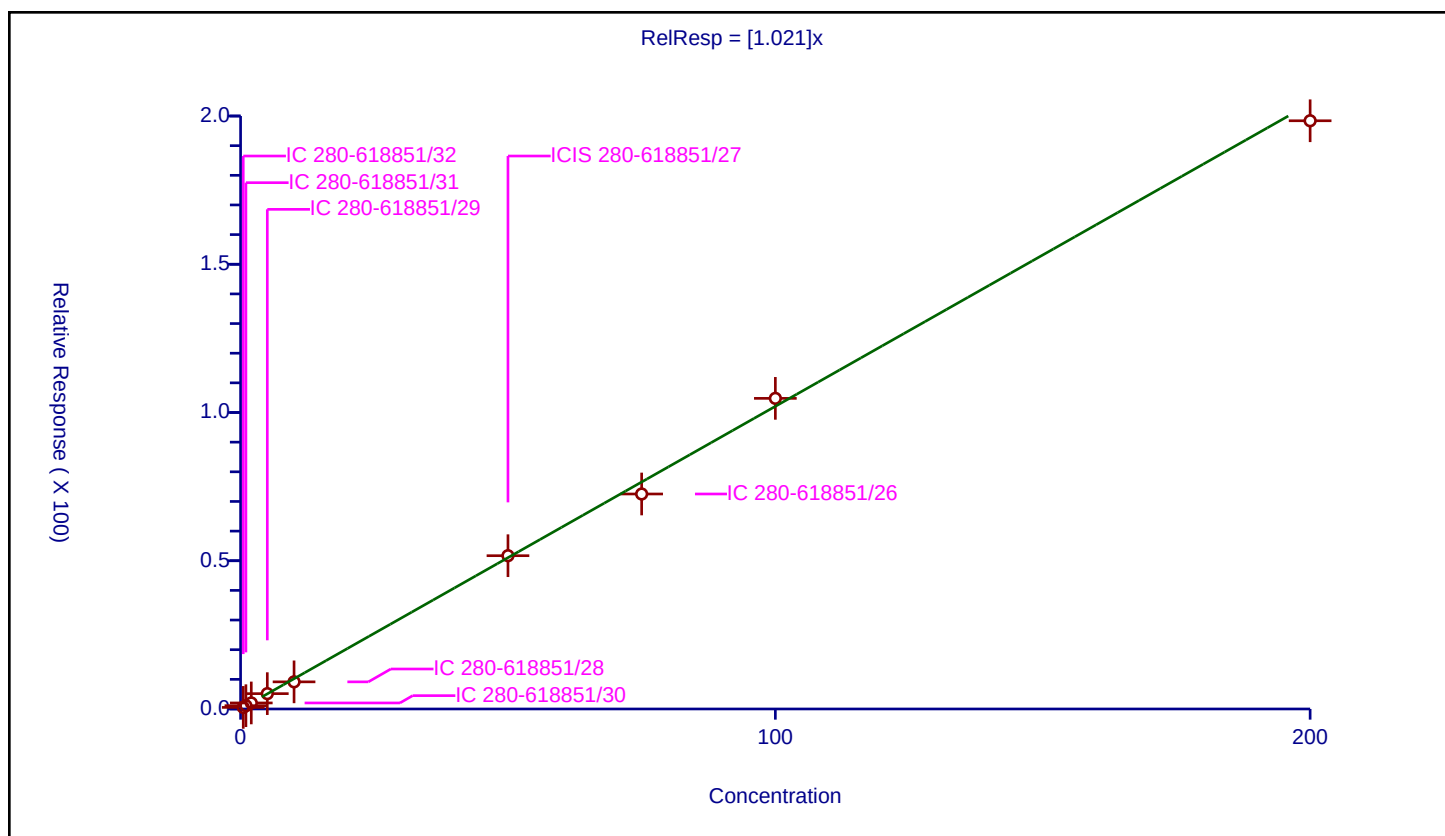
Curve Coefficients

Intercept: 0
Slope: 1.021

Error Coefficients

Standard Error: 2750000
Relative Standard Error: 5.6
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.535909	50.0	1471704.0	1.071819	Y
2	IC 280-618851/31	1.0	1.106724	50.0	1451943.0	1.106724	Y
3	IC 280-618851/30	2.0	2.035786	50.0	1413778.0	1.017893	Y
4	IC 280-618851/29	5.0	5.175641	50.0	1525415.0	1.035128	Y
5	IC 280-618851/28	10.0	9.154244	50.0	1549276.0	0.915424	Y
6	ICIS 280-618851/27	50.0	51.699069	50.0	1454826.0	1.033981	Y
7	IC 280-618851/26	75.0	72.512316	50.0	1514933.0	0.966831	Y
8	IC 280-618851/25	100.0	104.7672	50.0	1472531.0	1.047672	Y
9	IC 280-618851/24	200.0	198.400948	50.0	1667926.0	0.992005	Y



Calibration

/ trans-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

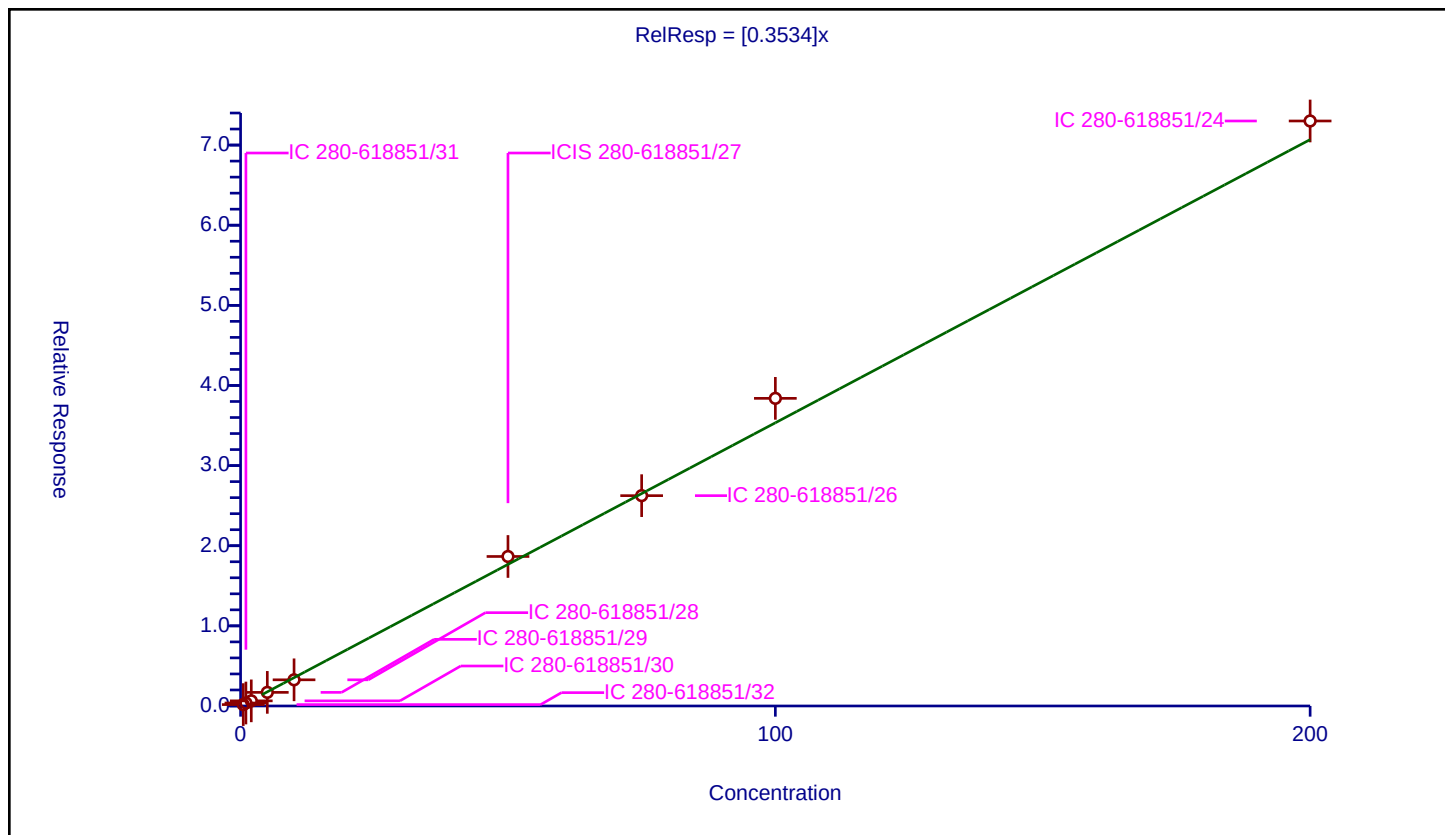
Curve Coefficients

Intercept: 0
Slope: 0.3534

Error Coefficients

Standard Error: 1010000
Relative Standard Error: 6.1
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.174797	50.0	1471704.0	0.349595	Y
2	IC 280-618851/31	1.0	0.371399	50.0	1451943.0	0.371399	Y
3	IC 280-618851/30	2.0	0.642215	50.0	1413778.0	0.321108	Y
4	IC 280-618851/29	5.0	1.699472	50.0	1525415.0	0.339894	Y
5	IC 280-618851/28	10.0	3.266752	50.0	1549276.0	0.326675	Y
6	ICIS 280-618851/27	50.0	18.657317	50.0	1454826.0	0.373146	Y
7	IC 280-618851/26	75.0	26.24994	50.0	1514933.0	0.349999	Y
8	IC 280-618851/25	100.0	38.390737	50.0	1472531.0	0.383907	Y
9	IC 280-618851/24	200.0	73.005127	50.0	1667926.0	0.365026	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

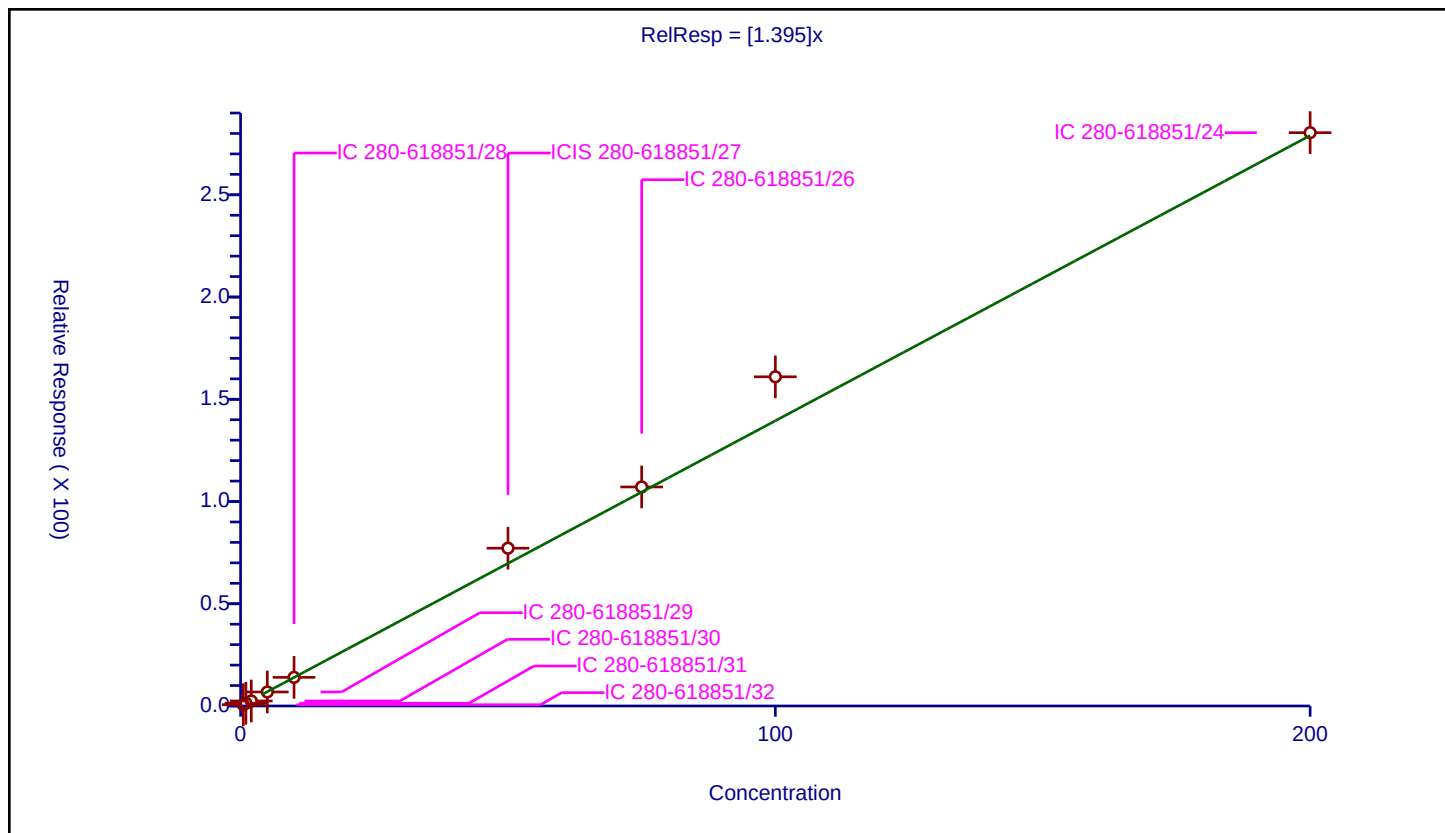
Curve Coefficients

Intercept: 0
Slope: 1.395

Error Coefficients

Standard Error: 971000
Relative Standard Error: 9.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.617791	50.0	372618.0	1.235582	Y
2	IC 280-618851/31	1.0	1.338088	50.0	362196.0	1.338088	Y
3	IC 280-618851/30	2.0	2.455	50.0	350387.0	1.2275	Y
4	IC 280-618851/29	5.0	6.848634	50.0	390180.0	1.369727	Y
5	IC 280-618851/28	10.0	13.994275	50.0	392682.0	1.399428	Y
6	ICIS 280-618851/27	50.0	77.177025	50.0	359447.0	1.54354	Y
7	IC 280-618851/26	75.0	107.112231	50.0	374334.0	1.428163	Y
8	IC 280-618851/25	100.0	160.988774	50.0	361569.0	1.609888	Y
9	IC 280-618851/24	200.0	280.385236	50.0	407257.0	1.401926	Y



Calibration

/ 1,1,2-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

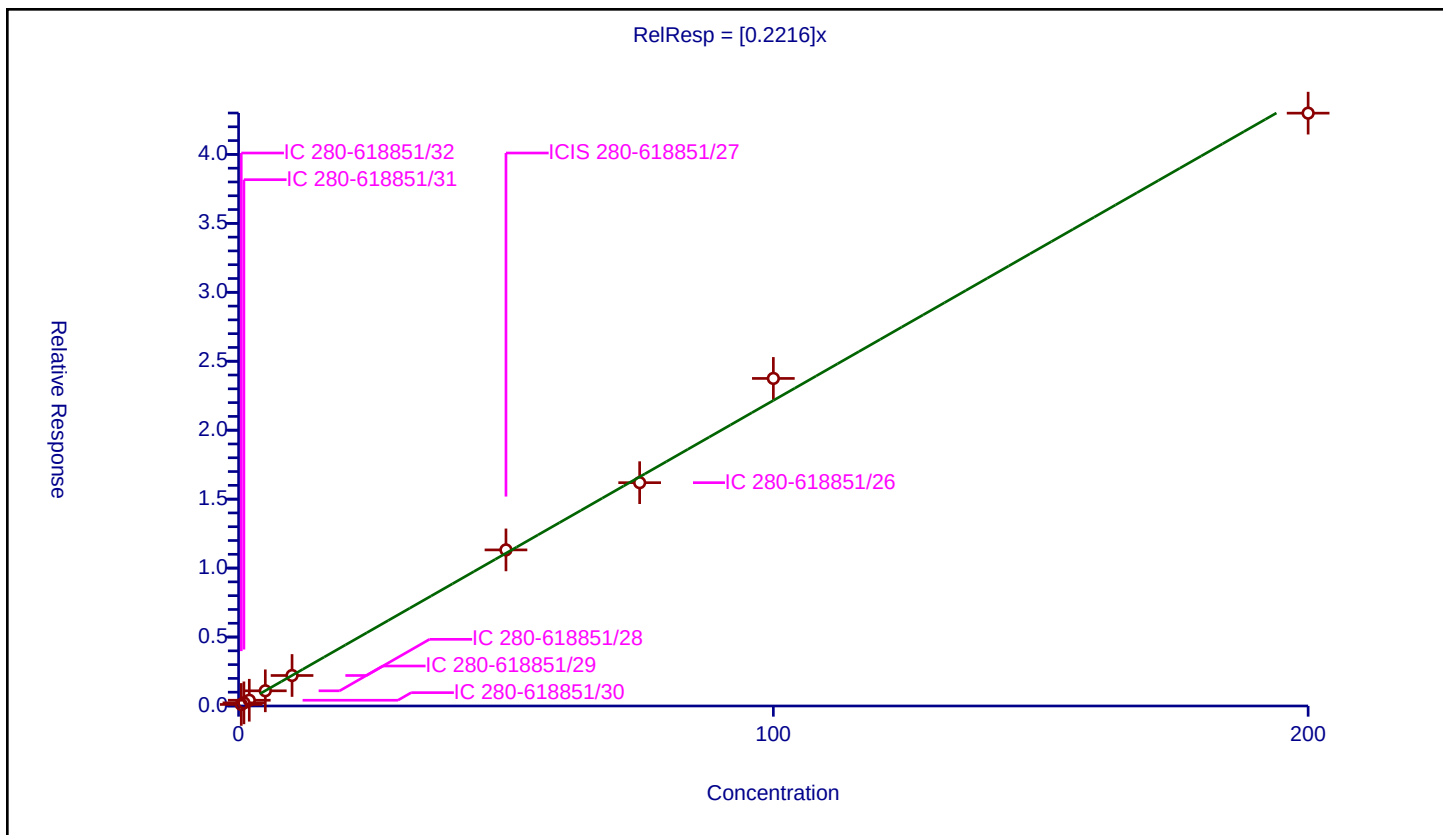
Curve Coefficients

Intercept: 0
Slope: 0.2216

Error Coefficients

Standard Error: 602000
Relative Standard Error: 3.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.111198	50.0	1471704.0	0.222395	Y
2	IC 280-618851/31	1.0	0.226937	50.0	1451943.0	0.226937	Y
3	IC 280-618851/30	2.0	0.417251	50.0	1413778.0	0.208625	Y
4	IC 280-618851/29	5.0	1.10111	50.0	1525415.0	0.220222	Y
5	IC 280-618851/28	10.0	2.210613	50.0	1549276.0	0.221061	Y
6	ICIS 280-618851/27	50.0	11.319326	50.0	1454826.0	0.226387	Y
7	IC 280-618851/26	75.0	16.193917	50.0	1514933.0	0.215919	Y
8	IC 280-618851/25	100.0	23.753863	50.0	1472531.0	0.237539	Y
9	IC 280-618851/24	200.0	42.989677	50.0	1667926.0	0.214948	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

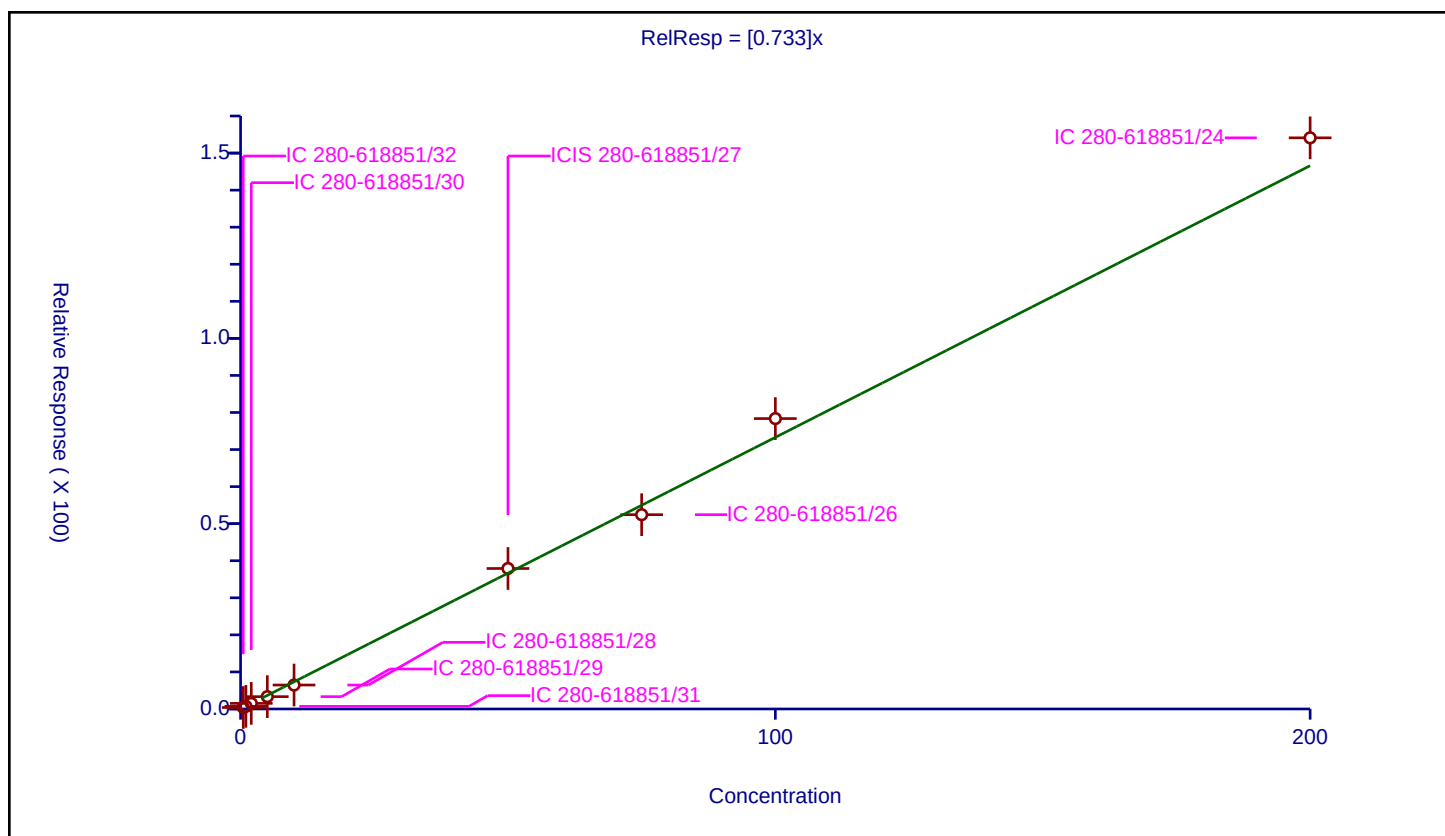
Curve Coefficients

Intercept: 0
 Slope: 0.733

Error Coefficients

Standard Error: 516000
 Relative Standard Error: 7.4
 Correlation Coefficient: 0.995
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.401618	50.0	372618.0	0.803235	Y
2	IC 280-618851/31	1.0	0.711493	50.0	362196.0	0.711493	Y
3	IC 280-618851/30	2.0	1.515324	50.0	350387.0	0.757662	Y
4	IC 280-618851/29	5.0	3.331155	50.0	390180.0	0.666231	Y
5	IC 280-618851/28	10.0	6.465919	50.0	392682.0	0.646592	Y
6	ICIS 280-618851/27	50.0	37.910457	50.0	359447.0	0.758209	Y
7	IC 280-618851/26	75.0	52.432186	50.0	374334.0	0.699096	Y
8	IC 280-618851/25	100.0	78.362913	50.0	361569.0	0.783629	Y
9	IC 280-618851/24	200.0	154.1119	50.0	407257.0	0.770559	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

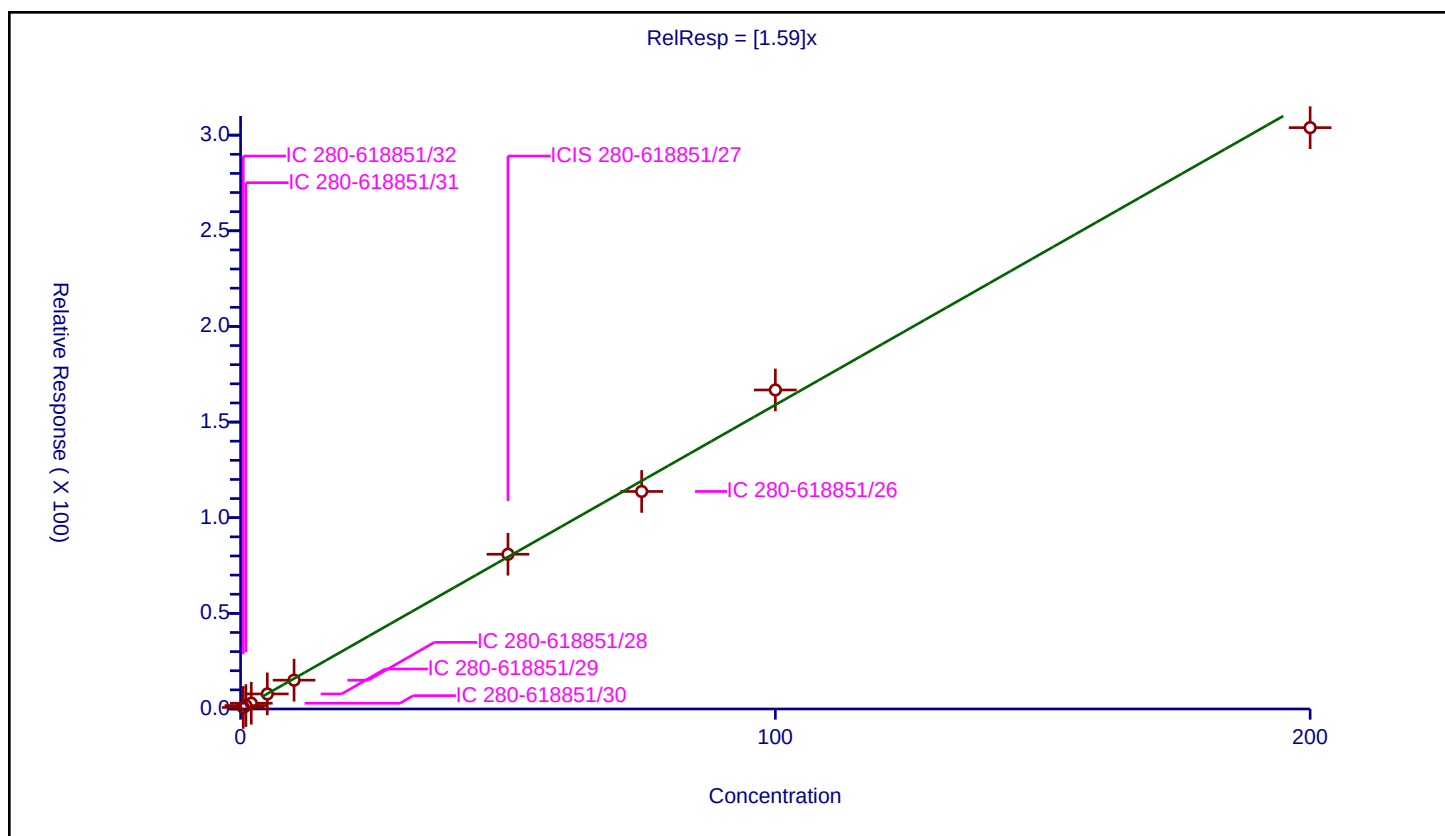
Curve Coefficients

Intercept: 0
Slope: 1.59

Error Coefficients

Standard Error: 1040000
Relative Standard Error: 6.1
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.804577	50.0	372618.0	1.609155	Y
2	IC 280-618851/31	1.0	1.795575	50.0	362196.0	1.795575	Y
3	IC 280-618851/30	2.0	3.003679	50.0	350387.0	1.501839	Y
4	IC 280-618851/29	5.0	7.867523	50.0	390180.0	1.573505	Y
5	IC 280-618851/28	10.0	15.0683	50.0	392682.0	1.50683	Y
6	ICIS 280-618851/27	50.0	80.90247	50.0	359447.0	1.618049	Y
7	IC 280-618851/26	75.0	113.726779	50.0	374334.0	1.516357	Y
8	IC 280-618851/25	100.0	166.782274	50.0	361569.0	1.667823	Y
9	IC 280-618851/24	200.0	303.92062	50.0	407257.0	1.519603	Y



Calibration

/ 2-Hexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

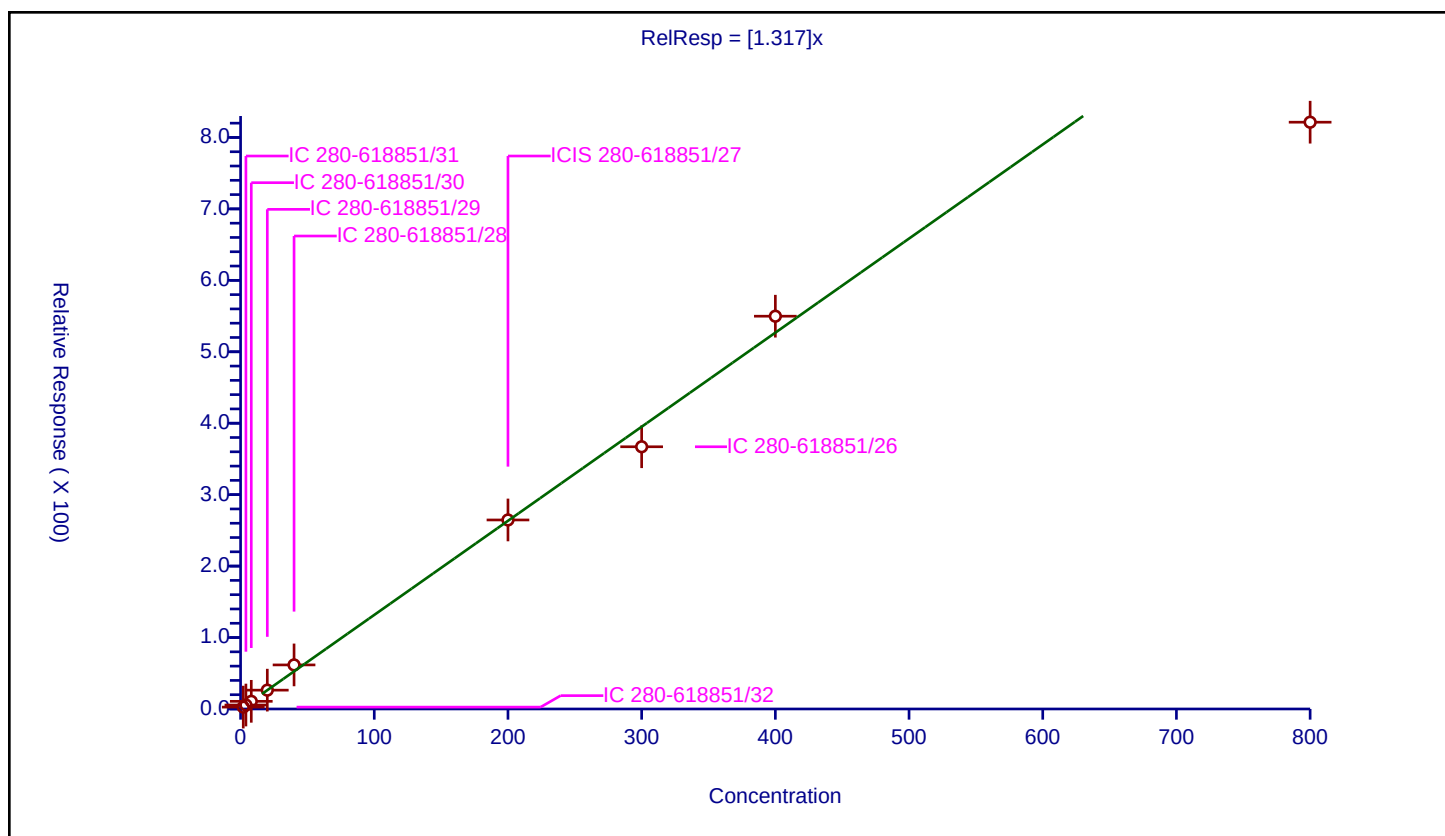
Curve Coefficients

Intercept: 0
Slope: 1.317

Error Coefficients

Standard Error: 3000000
Relative Standard Error: 10.5
Correlation Coefficient: 0.993
Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	2.0	2.627624	50.0	372618.0	1.313812	Y
2	IC 280-618851/31	4.0	5.546997	50.0	362196.0	1.386749	Y
3	IC 280-618851/30	8.0	10.742408	50.0	350387.0	1.342801	Y
4	IC 280-618851/29	20.0	26.38654	50.0	390180.0	1.319327	Y
5	IC 280-618851/28	40.0	61.673186	50.0	392682.0	1.54183	Y
6	ICIS 280-618851/27	200.0	264.577532	50.0	359447.0	1.322888	Y
7	IC 280-618851/26	300.0	367.031314	50.0	374334.0	1.223438	Y
8	IC 280-618851/25	400.0	549.777498	50.0	361569.0	1.374444	Y
9	IC 280-618851/24	800.0	821.339596	50.0	407257.0	1.026674	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

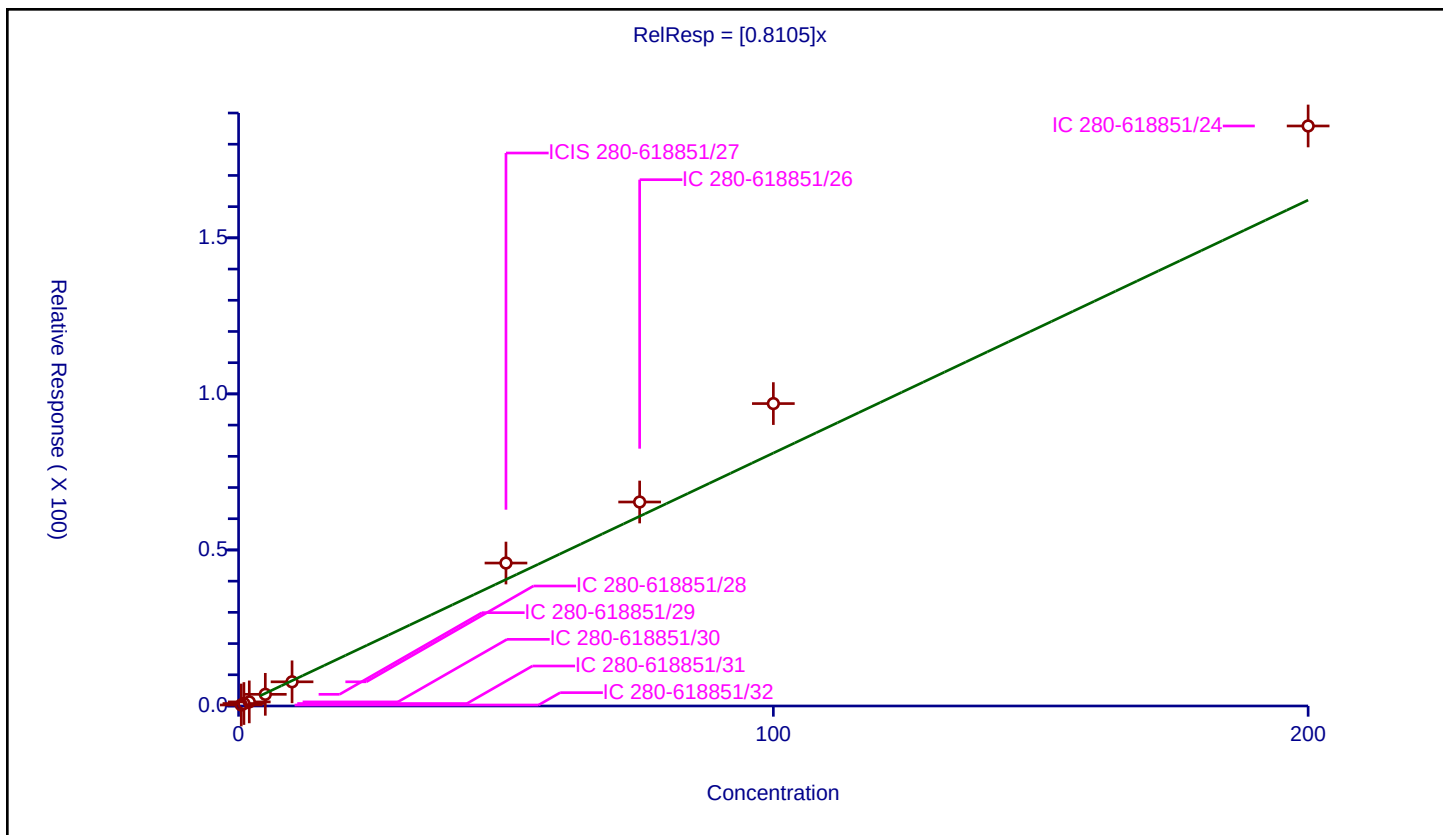
Curve Coefficients

Intercept: 0
 Slope: 0.8105

Error Coefficients

Standard Error: 626000
 Relative Standard Error: 14.7
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.318557	50.0	372618.0	0.637114	Y
2	IC 280-618851/31	1.0	0.793631	50.0	362196.0	0.793631	Y
3	IC 280-618851/30	2.0	1.310551	50.0	350387.0	0.655275	Y
4	IC 280-618851/29	5.0	3.740709	50.0	390180.0	0.748142	Y
5	IC 280-618851/28	10.0	7.744307	50.0	392682.0	0.774431	Y
6	ICIS 280-618851/27	50.0	45.806058	50.0	359447.0	0.916121	Y
7	IC 280-618851/26	75.0	65.360614	50.0	374334.0	0.871475	Y
8	IC 280-618851/25	100.0	96.897826	50.0	361569.0	0.968978	Y
9	IC 280-618851/24	200.0	185.84702	50.0	407257.0	0.929235	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

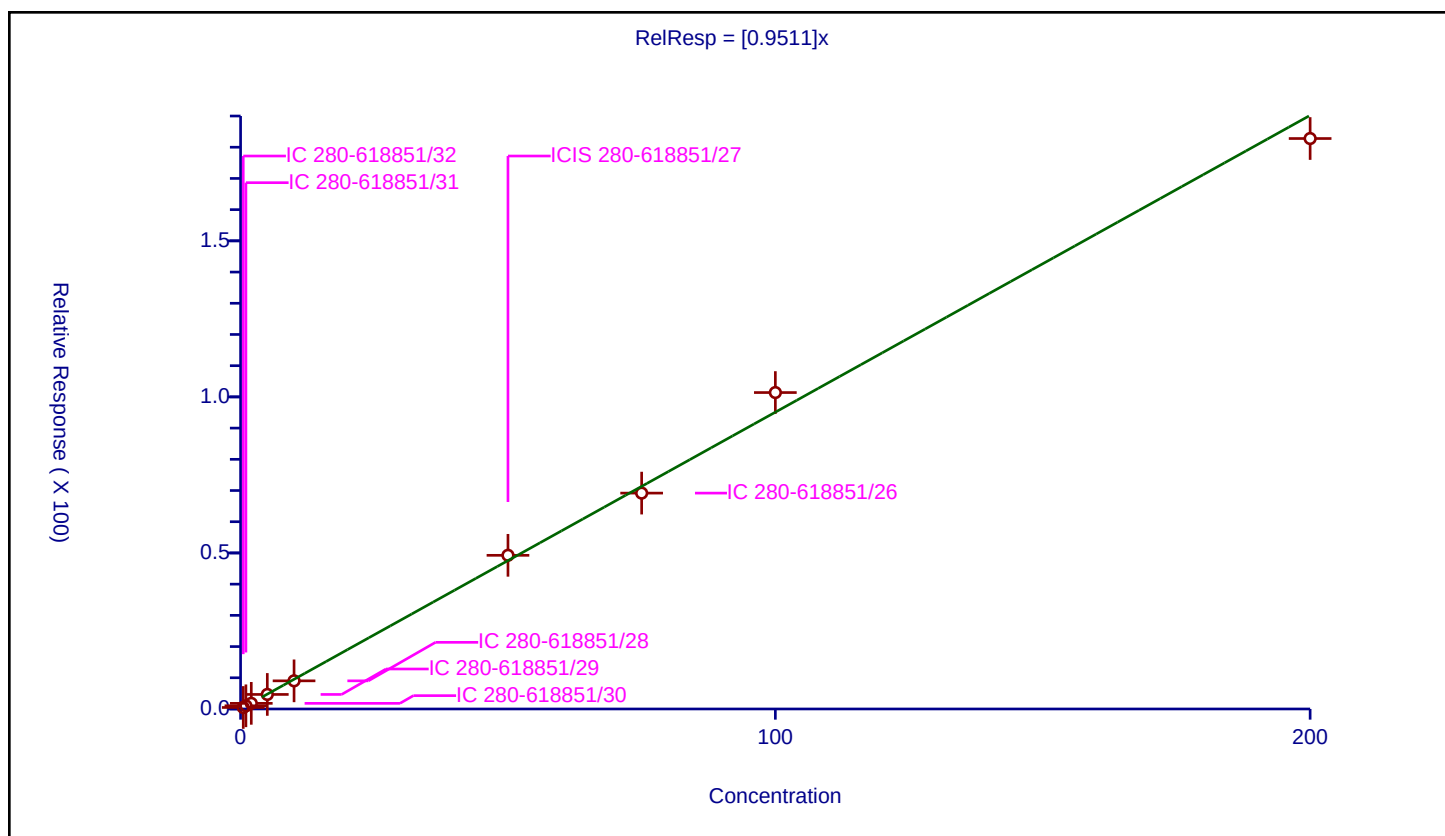
Curve Coefficients

Intercept: 0
 Slope: 0.9511

Error Coefficients

Standard Error: 628000
 Relative Standard Error: 4.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.48441	50.0	372618.0	0.968821	Y
2	IC 280-618851/31	1.0	1.018647	50.0	362196.0	1.018647	Y
3	IC 280-618851/30	2.0	1.804861	50.0	350387.0	0.902431	Y
4	IC 280-618851/29	5.0	4.662592	50.0	390180.0	0.932518	Y
5	IC 280-618851/28	10.0	9.022568	50.0	392682.0	0.902257	Y
6	ICIS 280-618851/27	50.0	49.238274	50.0	359447.0	0.984765	Y
7	IC 280-618851/26	75.0	69.17058	50.0	374334.0	0.922274	Y
8	IC 280-618851/25	100.0	101.393925	50.0	361569.0	1.013939	Y
9	IC 280-618851/24	200.0	182.785808	50.0	407257.0	0.913929	Y



Calibration

/ 1-Chlorohexane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

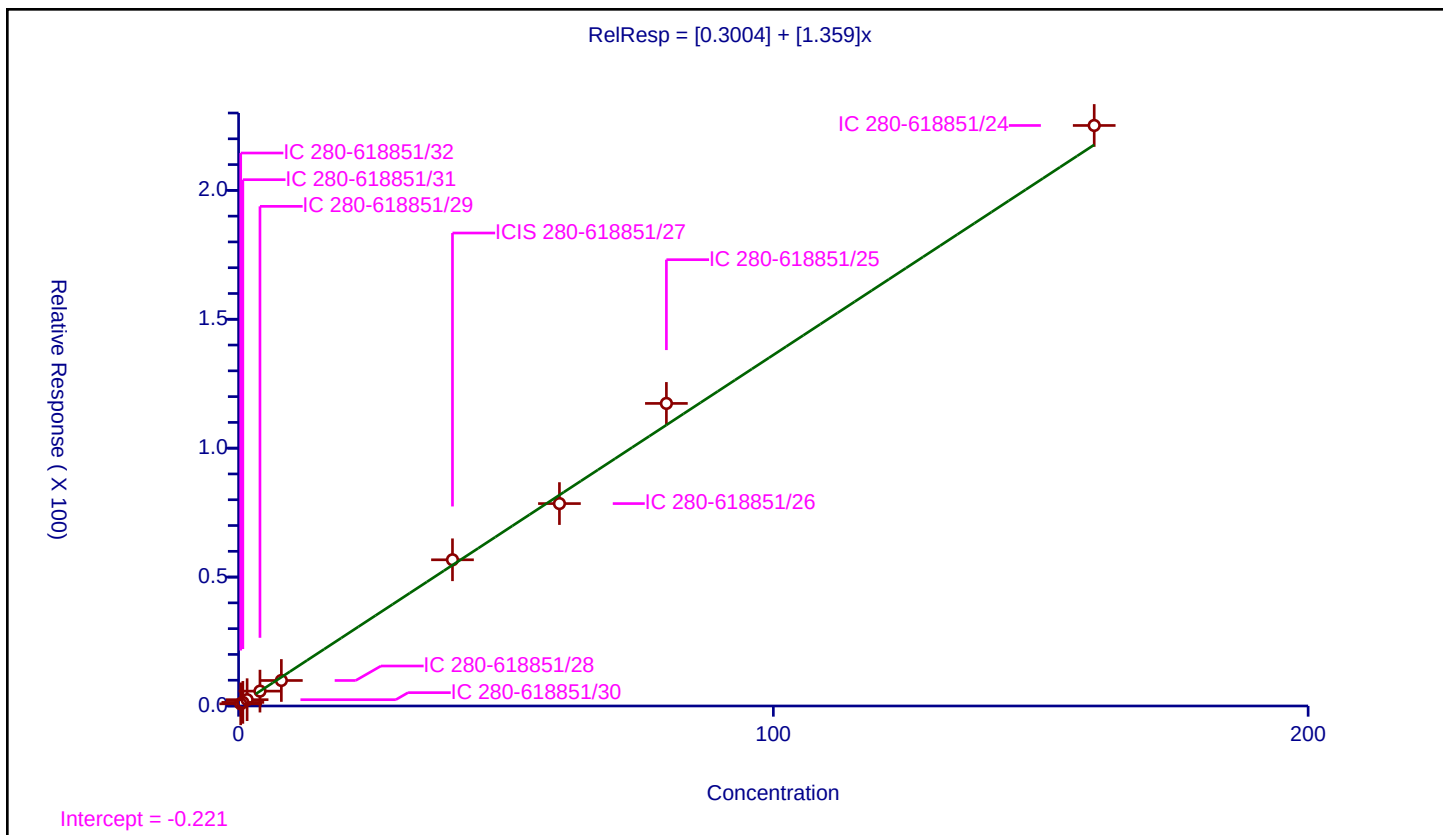
Curve Coefficients

Intercept: 0.3004
 Slope: 1.359

Error Coefficients

Standard Error: 811000
 Relative Standard Error: 5.9
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.4	0.844565	50.0	372618.0	2.111412	Y
2	IC 280-618851/31	0.8	1.401037	50.0	362196.0	1.751296	Y
3	IC 280-618851/30	1.6	2.446723	50.0	350387.0	1.529202	Y
4	IC 280-618851/29	4.0	5.770029	50.0	390180.0	1.442507	Y
5	IC 280-618851/28	8.0	9.897831	50.0	392682.0	1.237229	Y
6	ICIS 280-618851/27	40.0	56.705022	50.0	359447.0	1.417626	Y
7	IC 280-618851/26	60.0	78.51157	50.0	374334.0	1.308526	Y
8	IC 280-618851/25	80.0	117.360448	50.0	361569.0	1.467006	Y
9	IC 280-618851/24	160.0	225.166173	50.0	407257.0	1.407289	Y



Calibration

/ Chlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

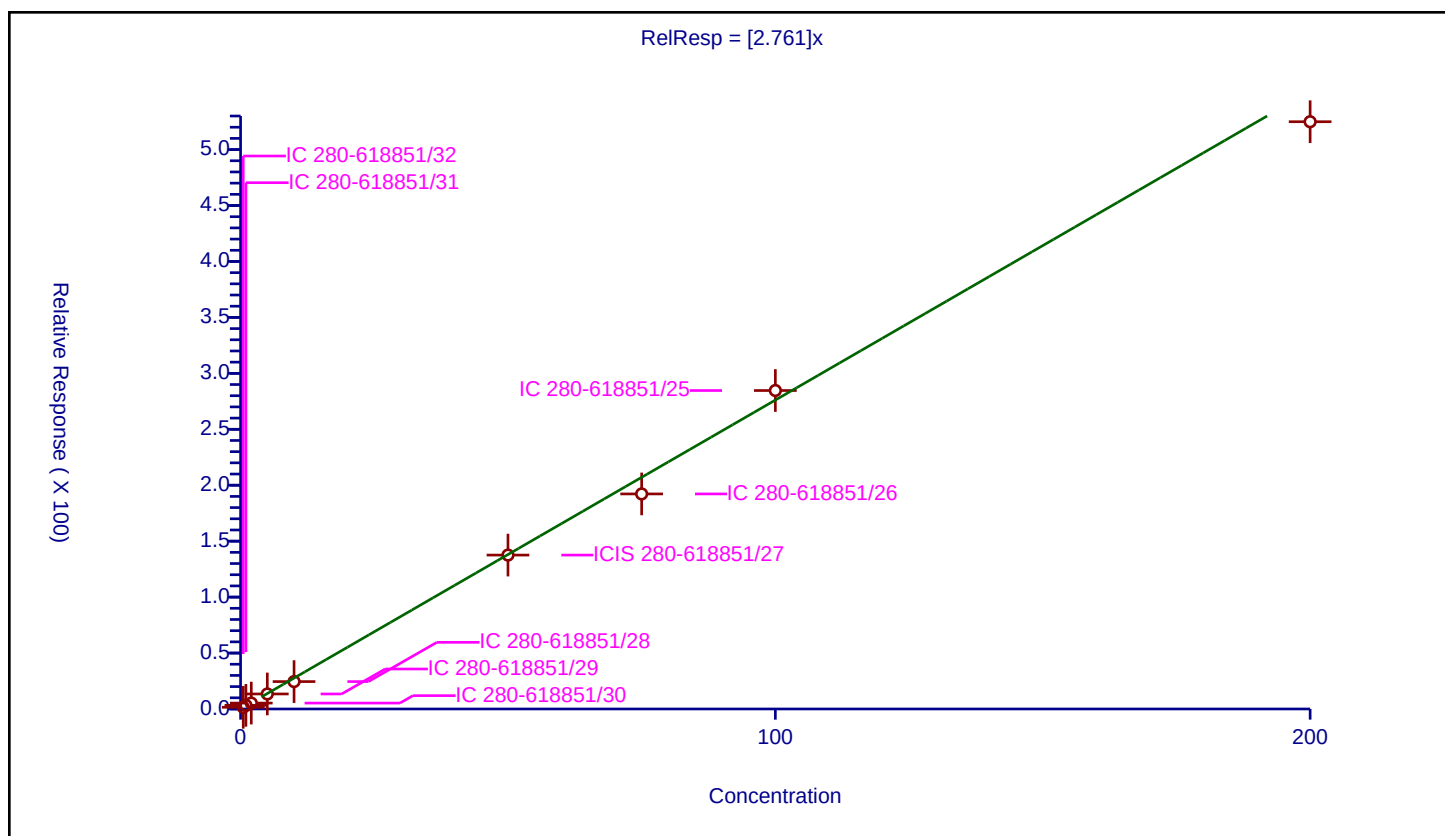
Curve Coefficients

Intercept: 0
Slope: 2.761

Error Coefficients

Standard Error: 1790000
Relative Standard Error: 9.1
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	1.522337	50.0	372618.0	3.044673	Y
2	IC 280-618851/31	1.0	3.25114	50.0	362196.0	3.25114	Y
3	IC 280-618851/30	2.0	5.268888	50.0	350387.0	2.634444	Y
4	IC 280-618851/29	5.0	13.429699	50.0	390180.0	2.68594	Y
5	IC 280-618851/28	10.0	24.481387	50.0	392682.0	2.448139	Y
6	ICIS 280-618851/27	50.0	137.56437	50.0	359447.0	2.751287	Y
7	IC 280-618851/26	75.0	192.211635	50.0	374334.0	2.562822	Y
8	IC 280-618851/25	100.0	284.634745	50.0	361569.0	2.846347	Y
9	IC 280-618851/24	200.0	524.888829	50.0	407257.0	2.624444	Y



Calibration

/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

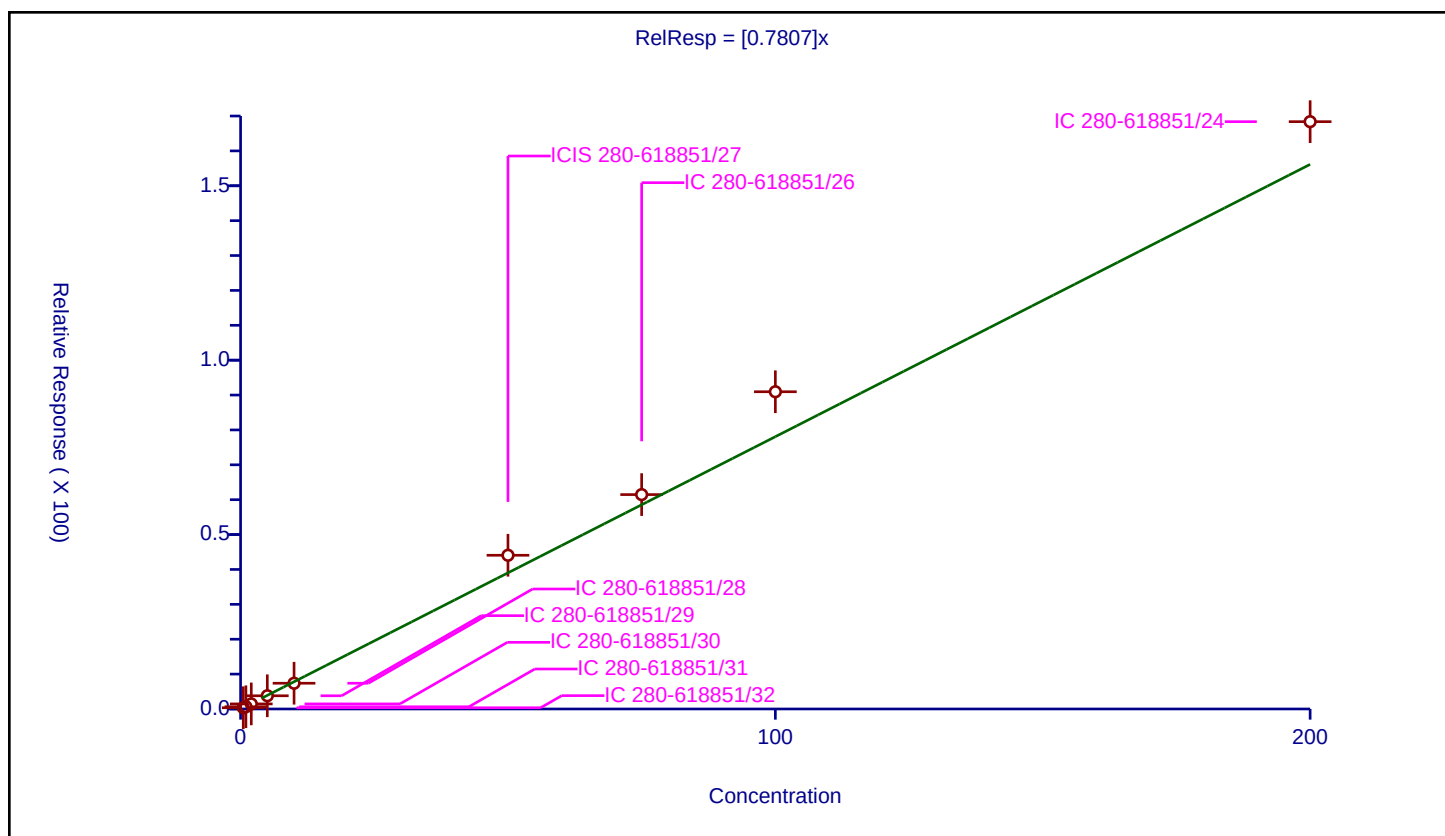
Curve Coefficients

Intercept: 0
Slope: 0.7807

Error Coefficients

Standard Error: 573000
Relative Standard Error: 11.3
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.355324	50.0	372618.0	0.710647	Y
2	IC 280-618851/31	1.0	0.639571	50.0	362196.0	0.639571	Y
3	IC 280-618851/30	2.0	1.454249	50.0	350387.0	0.727125	Y
4	IC 280-618851/29	5.0	3.789405	50.0	390180.0	0.757881	Y
5	IC 280-618851/28	10.0	7.384347	50.0	392682.0	0.738435	Y
6	ICIS 280-618851/27	50.0	44.07131	50.0	359447.0	0.881426	Y
7	IC 280-618851/26	75.0	61.465162	50.0	374334.0	0.819535	Y
8	IC 280-618851/25	100.0	90.948062	50.0	361569.0	0.909481	Y
9	IC 280-618851/24	200.0	168.381759	50.0	407257.0	0.841909	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

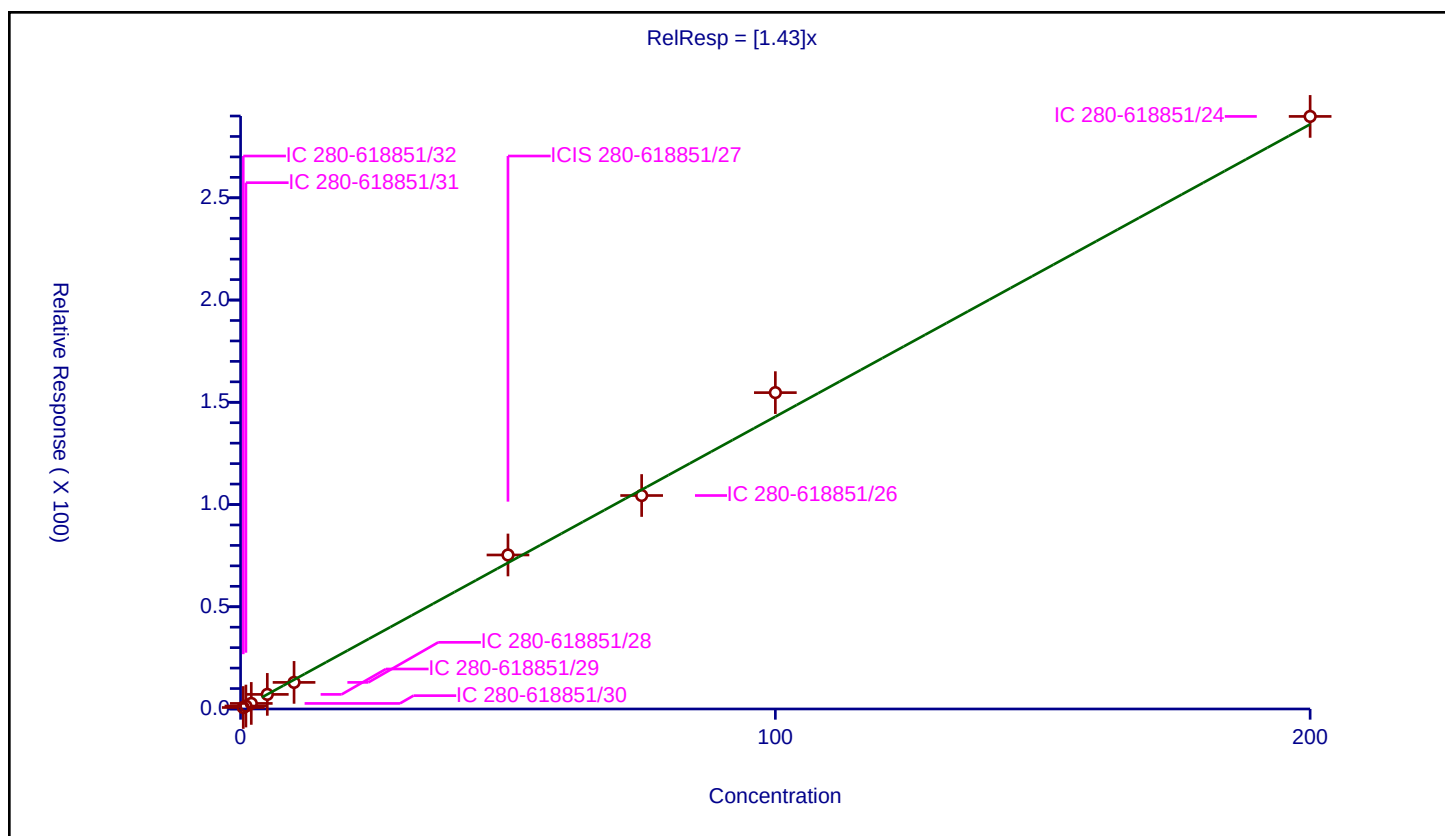
Curve Coefficients

Intercept: 0
Slope: 1.43

Error Coefficients

Standard Error: 984000
Relative Standard Error: 5.1
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.718967	50.0	372618.0	1.437934	Y
2	IC 280-618851/31	1.0	1.444246	50.0	362196.0	1.444246	Y
3	IC 280-618851/30	2.0	2.720278	50.0	350387.0	1.360139	Y
4	IC 280-618851/29	5.0	7.145933	50.0	390180.0	1.429187	Y
5	IC 280-618851/28	10.0	13.01282	50.0	392682.0	1.301282	Y
6	ICIS 280-618851/27	50.0	75.318475	50.0	359447.0	1.50637	Y
7	IC 280-618851/26	75.0	104.40115	50.0	374334.0	1.392015	Y
8	IC 280-618851/25	100.0	154.721782	50.0	361569.0	1.547218	Y
9	IC 280-618851/24	200.0	289.800298	50.0	407257.0	1.449001	Y



Calibration

/ m-Xylene & p-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

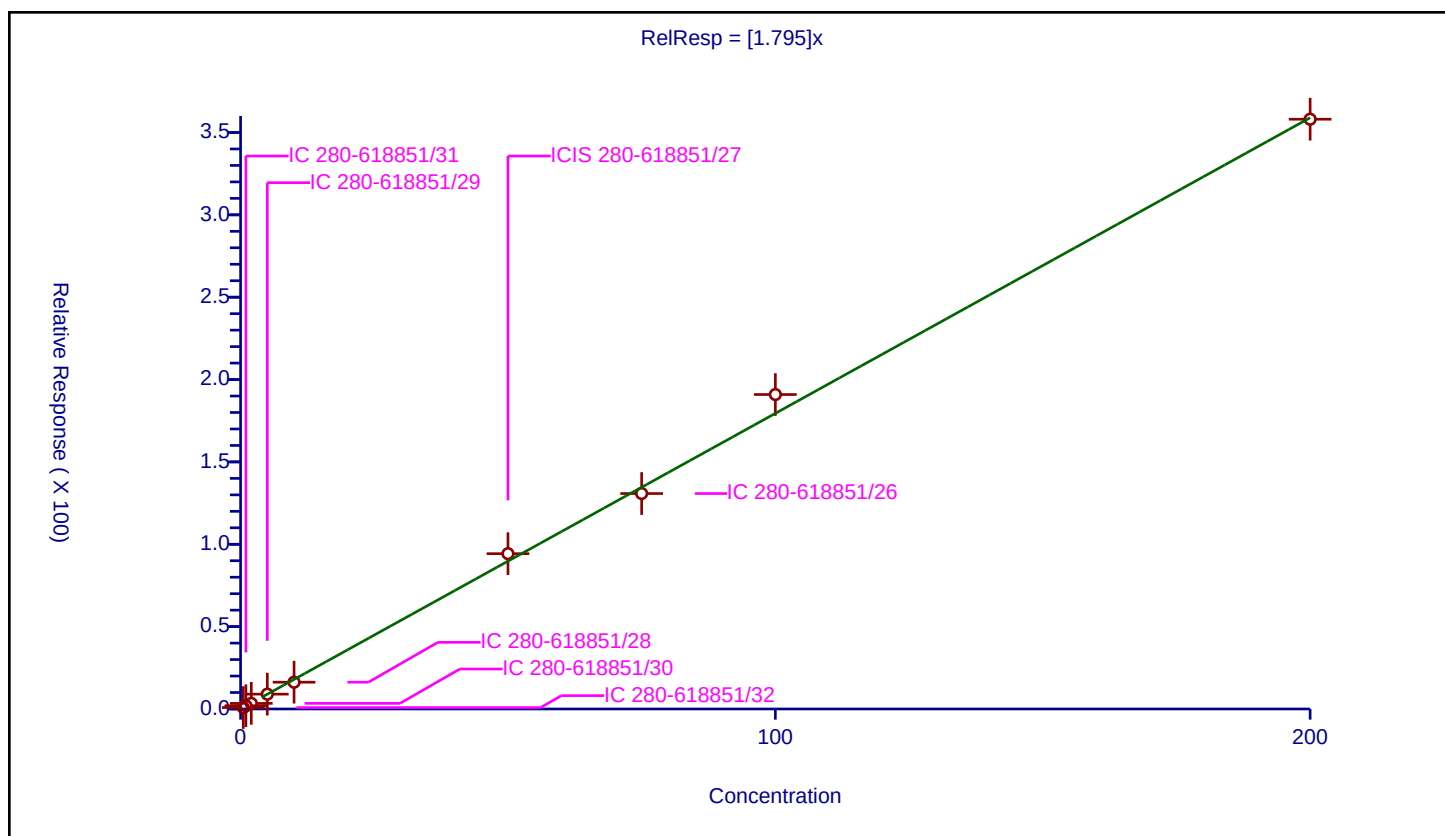
Curve Coefficients

Intercept: 0
Slope: 1.795

Error Coefficients

Standard Error: 1220000
Relative Standard Error: 6.1
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.862546	50.0	372618.0	1.725091	Y
2	IC 280-618851/31	1.0	1.968409	50.0	362196.0	1.968409	Y
3	IC 280-618851/30	2.0	3.402666	50.0	350387.0	1.701333	Y
4	IC 280-618851/29	5.0	9.009688	50.0	390180.0	1.801938	Y
5	IC 280-618851/28	10.0	16.26265	50.0	392682.0	1.626265	Y
6	ICIS 280-618851/27	50.0	94.301524	50.0	359447.0	1.88603	Y
7	IC 280-618851/26	75.0	130.808983	50.0	374334.0	1.74412	Y
8	IC 280-618851/25	100.0	190.923586	50.0	361569.0	1.909236	Y
9	IC 280-618851/24	200.0	358.057443	50.0	407257.0	1.790287	Y



Calibration

/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

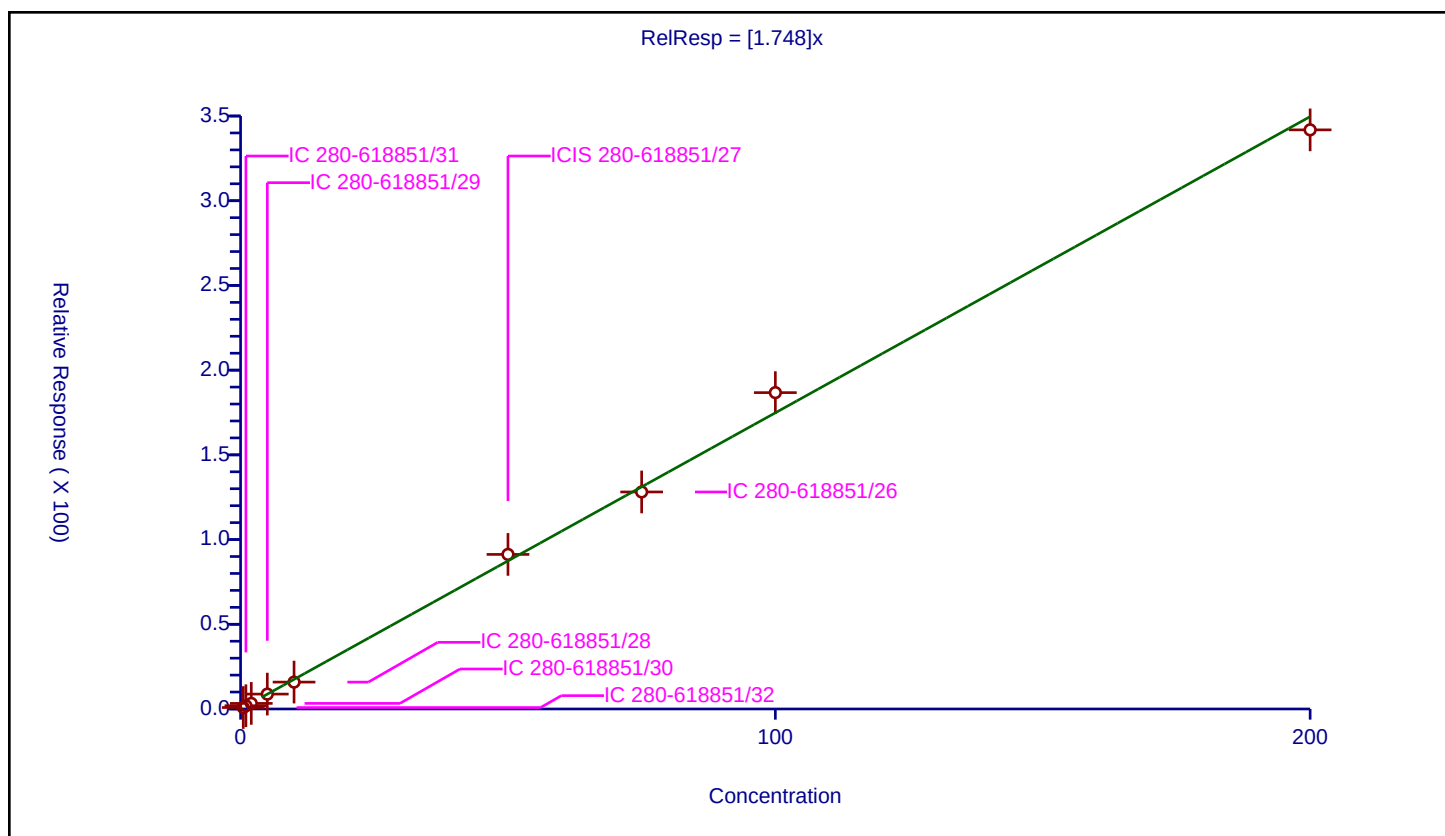
Curve Coefficients

Intercept: 0
 Slope: 1.748

Error Coefficients

Standard Error: 1170000
 Relative Standard Error: 5.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.863351	50.0	372618.0	1.726701	Y
2	IC 280-618851/31	1.0	1.90477	50.0	362196.0	1.90477	Y
3	IC 280-618851/30	2.0	3.29236	50.0	350387.0	1.64618	Y
4	IC 280-618851/29	5.0	8.797222	50.0	390180.0	1.759444	Y
5	IC 280-618851/28	10.0	15.872385	50.0	392682.0	1.587239	Y
6	ICIS 280-618851/27	50.0	91.241824	50.0	359447.0	1.824836	Y
7	IC 280-618851/26	75.0	128.105783	50.0	374334.0	1.708077	Y
8	IC 280-618851/25	100.0	186.737663	50.0	361569.0	1.867377	Y
9	IC 280-618851/24	200.0	341.833903	50.0	407257.0	1.70917	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

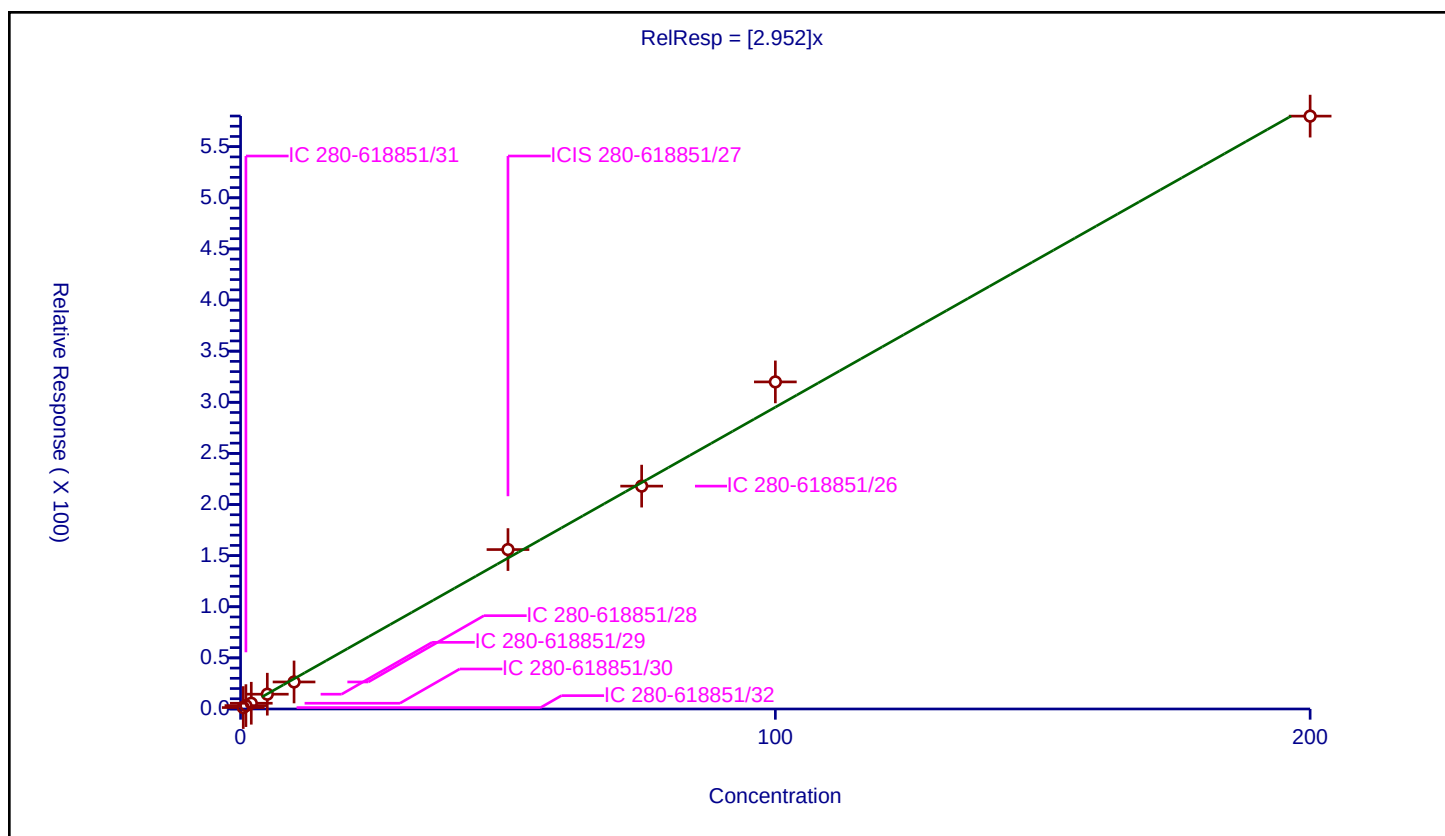
Curve Coefficients

Intercept: 0
Slope: 2.952

Error Coefficients

Standard Error: 1990000
Relative Standard Error: 7.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	1.405058	50.0	372618.0	2.810117	Y
2	IC 280-618851/31	1.0	3.286618	50.0	362196.0	3.286618	Y
3	IC 280-618851/30	2.0	5.628919	50.0	350387.0	2.814459	Y
4	IC 280-618851/29	5.0	14.454995	50.0	390180.0	2.890999	Y
5	IC 280-618851/28	10.0	26.428892	50.0	392682.0	2.642889	Y
6	ICIS 280-618851/27	50.0	155.935089	50.0	359447.0	3.118702	Y
7	IC 280-618851/26	75.0	217.999434	50.0	374334.0	2.906659	Y
8	IC 280-618851/25	100.0	319.931604	50.0	361569.0	3.199316	Y
9	IC 280-618851/24	200.0	579.889848	50.0	407257.0	2.899449	Y



Calibration

/ Bromoform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

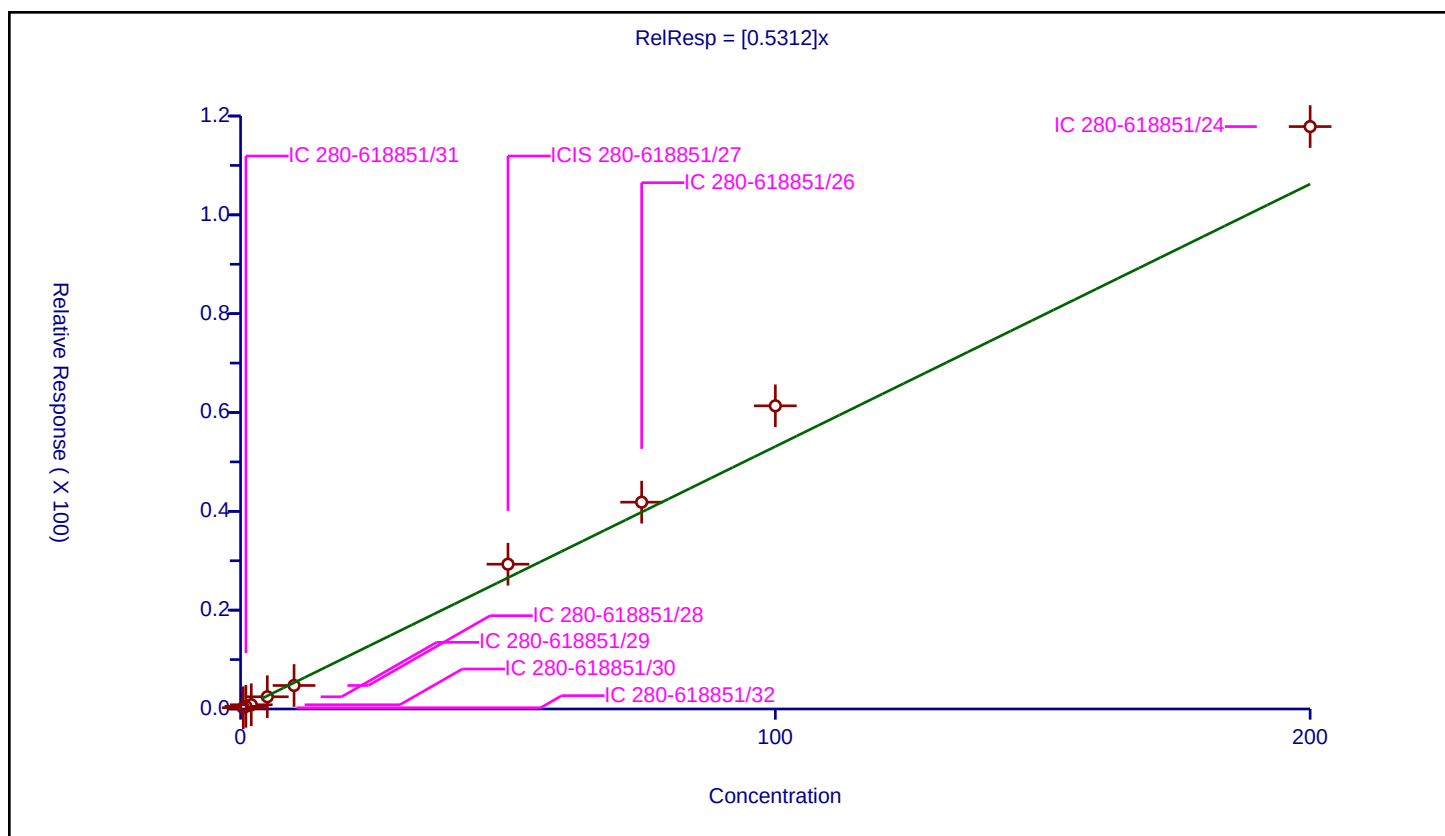
Curve Coefficients

Intercept: 0
 Slope: 0.5312

Error Coefficients

Standard Error: 397000
 Relative Standard Error: 11.5
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.249451	50.0	372618.0	0.498902	Y
2	IC 280-618851/31	1.0	0.534793	50.0	362196.0	0.534793	Y
3	IC 280-618851/30	2.0	0.859336	50.0	350387.0	0.429668	Y
4	IC 280-618851/29	5.0	2.472705	50.0	390180.0	0.494541	Y
5	IC 280-618851/28	10.0	4.757412	50.0	392682.0	0.475741	Y
6	ICIS 280-618851/27	50.0	29.303068	50.0	359447.0	0.586061	Y
7	IC 280-618851/26	75.0	41.853532	50.0	374334.0	0.558047	Y
8	IC 280-618851/25	100.0	61.349286	50.0	361569.0	0.613493	Y
9	IC 280-618851/24	200.0	117.860589	50.0	407257.0	0.589303	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

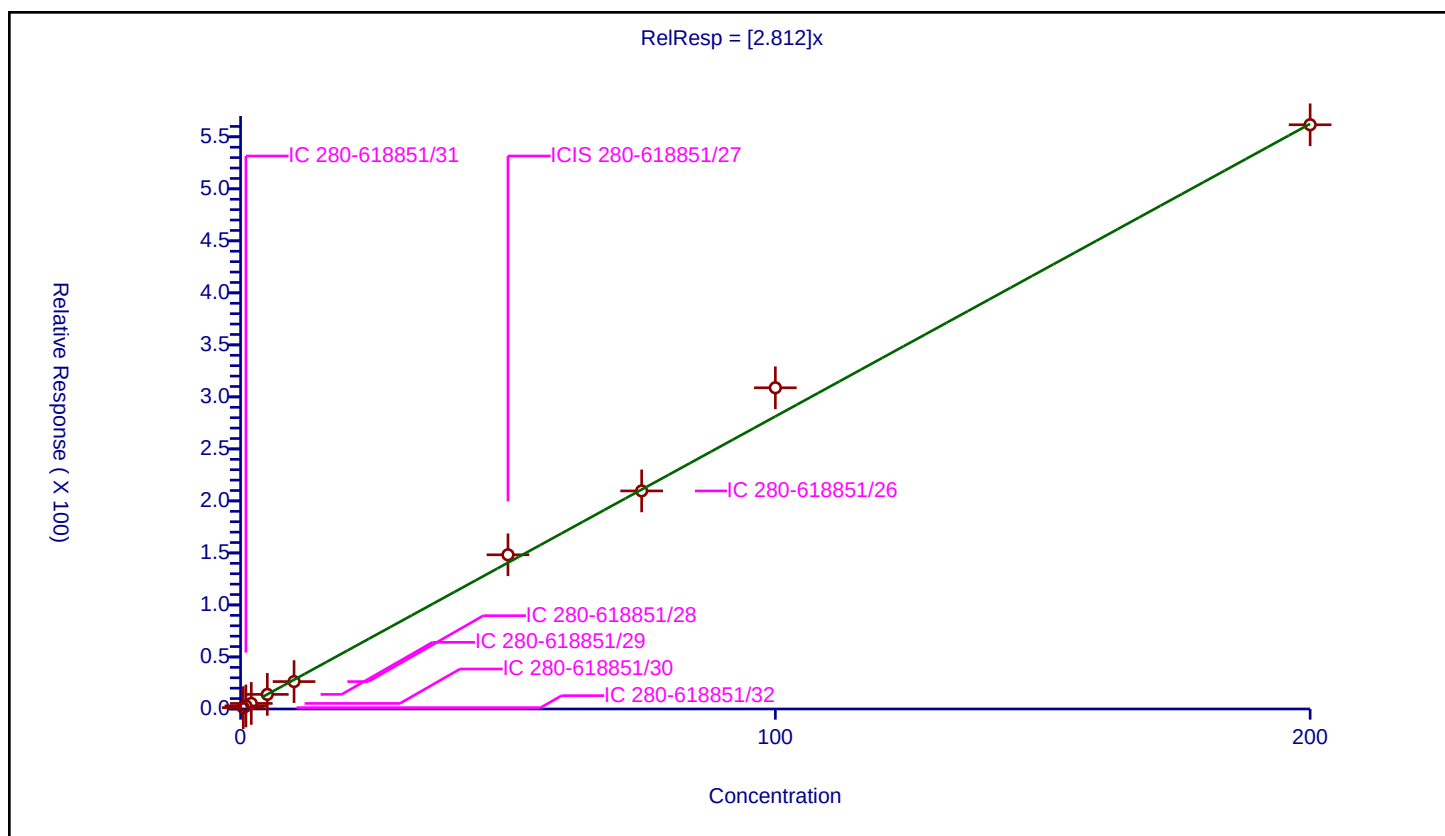
Curve Coefficients

Intercept: 0
Slope: 2.812

Error Coefficients

Standard Error: 3000000
Relative Standard Error: 6.1
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	1.284186	50.0	582548.0	2.568372	Y
2	IC 280-618851/31	1.0	2.972372	50.0	586804.0	2.972372	Y
3	IC 280-618851/30	2.0	5.34358	50.0	545346.0	2.67179	Y
4	IC 280-618851/29	5.0	14.037444	50.0	607315.0	2.807489	Y
5	IC 280-618851/28	10.0	26.349664	50.0	608040.0	2.634966	Y
6	ICIS 280-618851/27	50.0	148.235261	50.0	567591.0	2.964705	Y
7	IC 280-618851/26	75.0	209.630311	50.0	581570.0	2.795071	Y
8	IC 280-618851/25	100.0	308.771601	50.0	554038.0	3.087716	Y
9	IC 280-618851/24	200.0	561.593862	50.0	637389.0	2.807969	Y



Calibration

/ Cyclohexanone

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

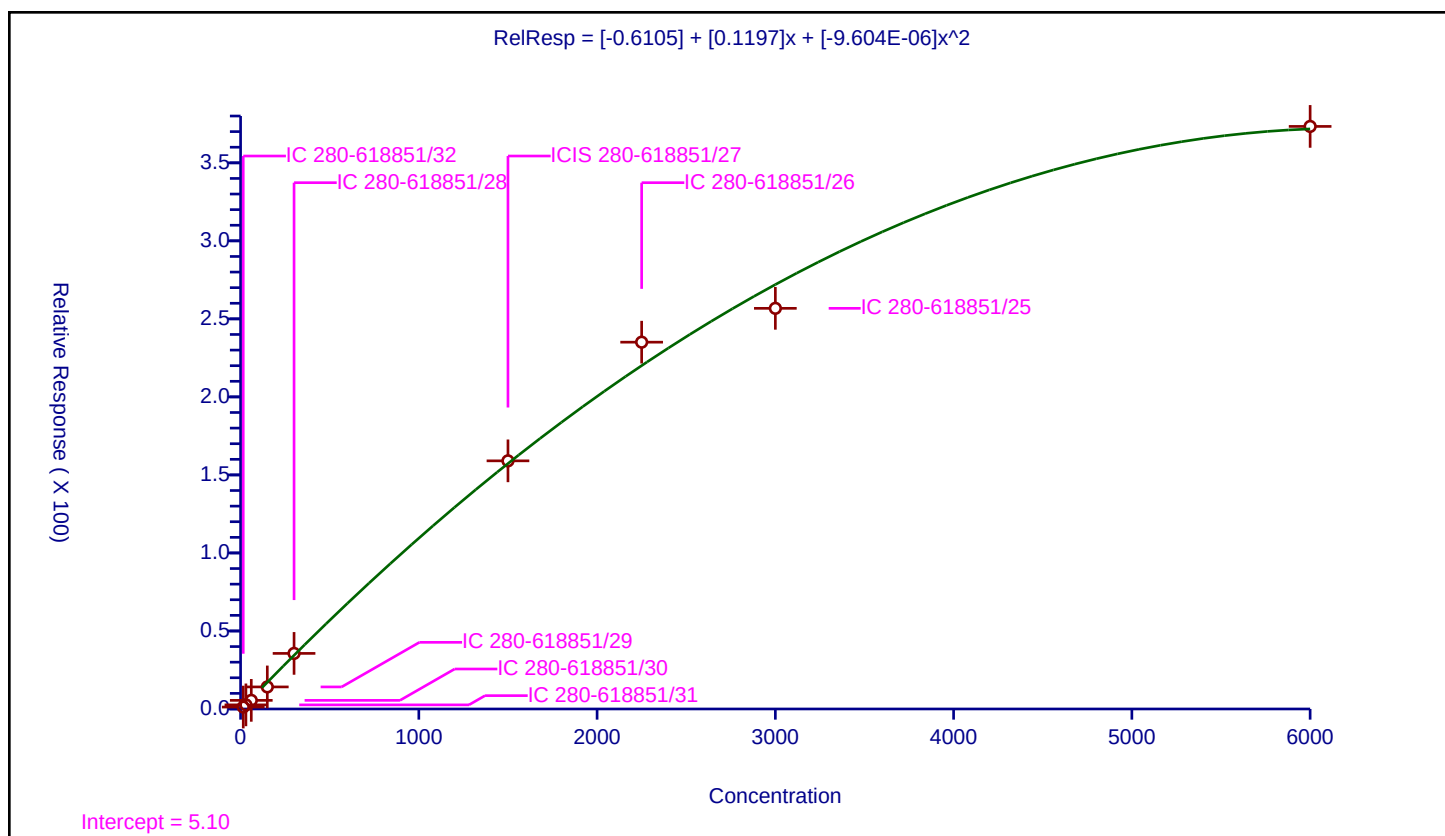
Curve Coefficients

Intercept: -0.6105
Slope: 0.1197
Second Order: -9.604E-06

Error Coefficients

Standard Error: 1690000
Relative Standard Error: NaN
Correlation Coefficient: 0.990
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	15.0	1.246719	50.0	372618.0	0.083115	Y
2	IC 280-618851/31	30.0	2.646219	50.0	362196.0	0.088207	Y
3	IC 280-618851/30	60.0	5.526318	50.0	350387.0	0.092105	Y
4	IC 280-618851/29	150.0	14.138346	50.0	390180.0	0.094256	Y
5	IC 280-618851/28	300.0	35.619534	50.0	392682.0	0.118732	Y
6	ICIS 280-618851/27	1500.0	159.01329	50.0	359447.0	0.106009	Y
7	IC 280-618851/26	2250.0	235.071353	50.0	374334.0	0.104476	Y
8	IC 280-618851/25	3000.0	256.755834	50.0	361569.0	0.085585	Y
9	IC 280-618851/24	6000.0	373.329617	50.0	407257.0	0.062222	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

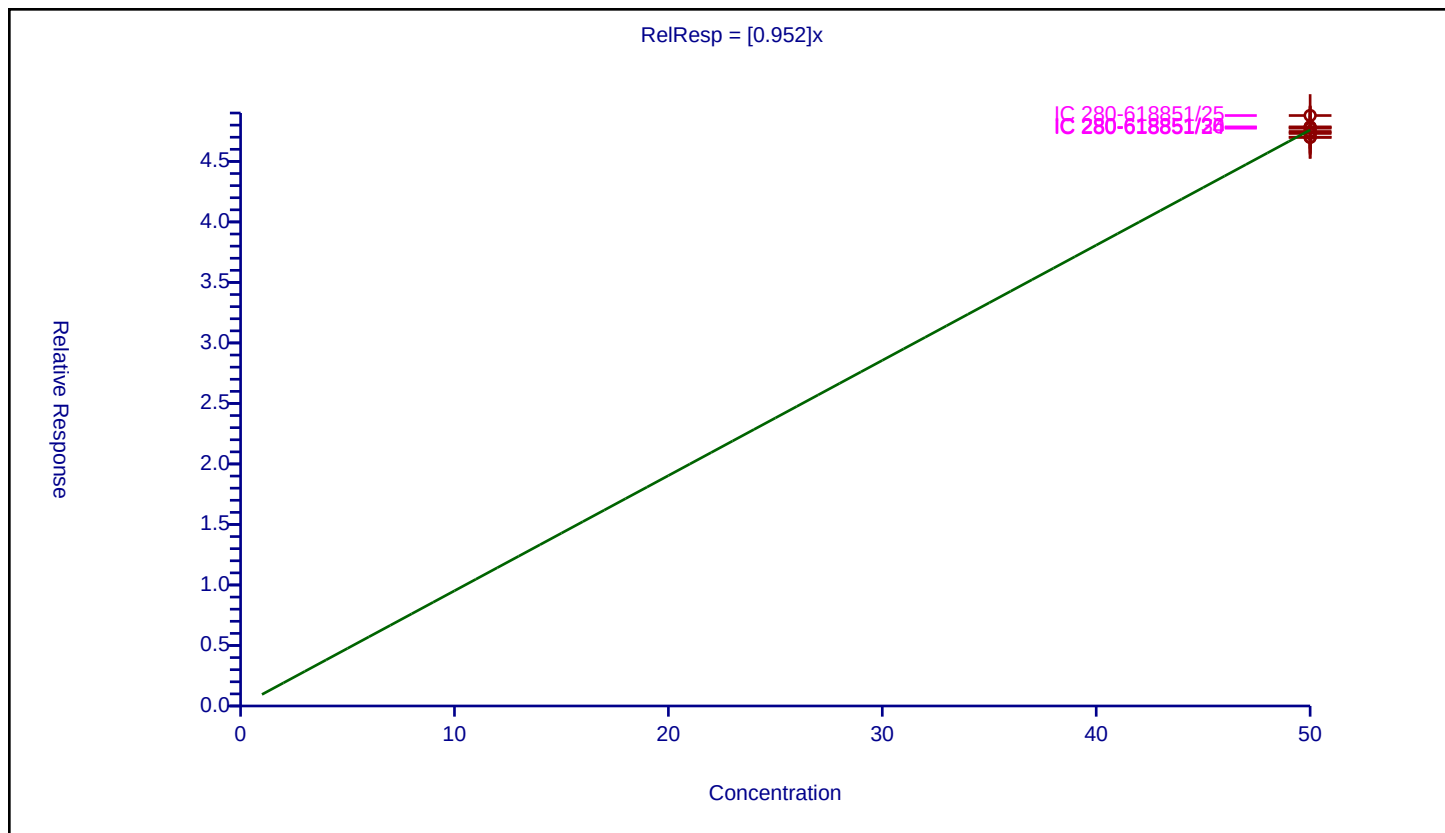
Curve Coefficients

Intercept: 0
 Slope: 0.952

Error Coefficients

Standard Error: 592000
 Relative Standard Error: 1.2
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/24	50.0	47.74698	50.0	637389.0	0.95494	Y
2	IC 280-618851/25	50.0	48.793855	50.0	554038.0	0.975877	Y
3	IC 280-618851/26	50.0	47.812129	50.0	581570.0	0.956243	Y
4	ICIS 280-618851/27	50.0	47.474502	50.0	567591.0	0.94949	Y
5	IC 280-618851/28	50.0	47.003651	50.0	608040.0	0.940073	Y
6	IC 280-618851/29	50.0	47.309633	50.0	607315.0	0.946193	Y
7	IC 280-618851/30	50.0	47.85659	50.0	545346.0	0.957132	Y
8	IC 280-618851/31	50.0	46.988943	50.0	586804.0	0.939779	Y
9	IC 280-618851/32	50.0	47.396695	50.0	582548.0	0.947934	Y



Calibration

/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

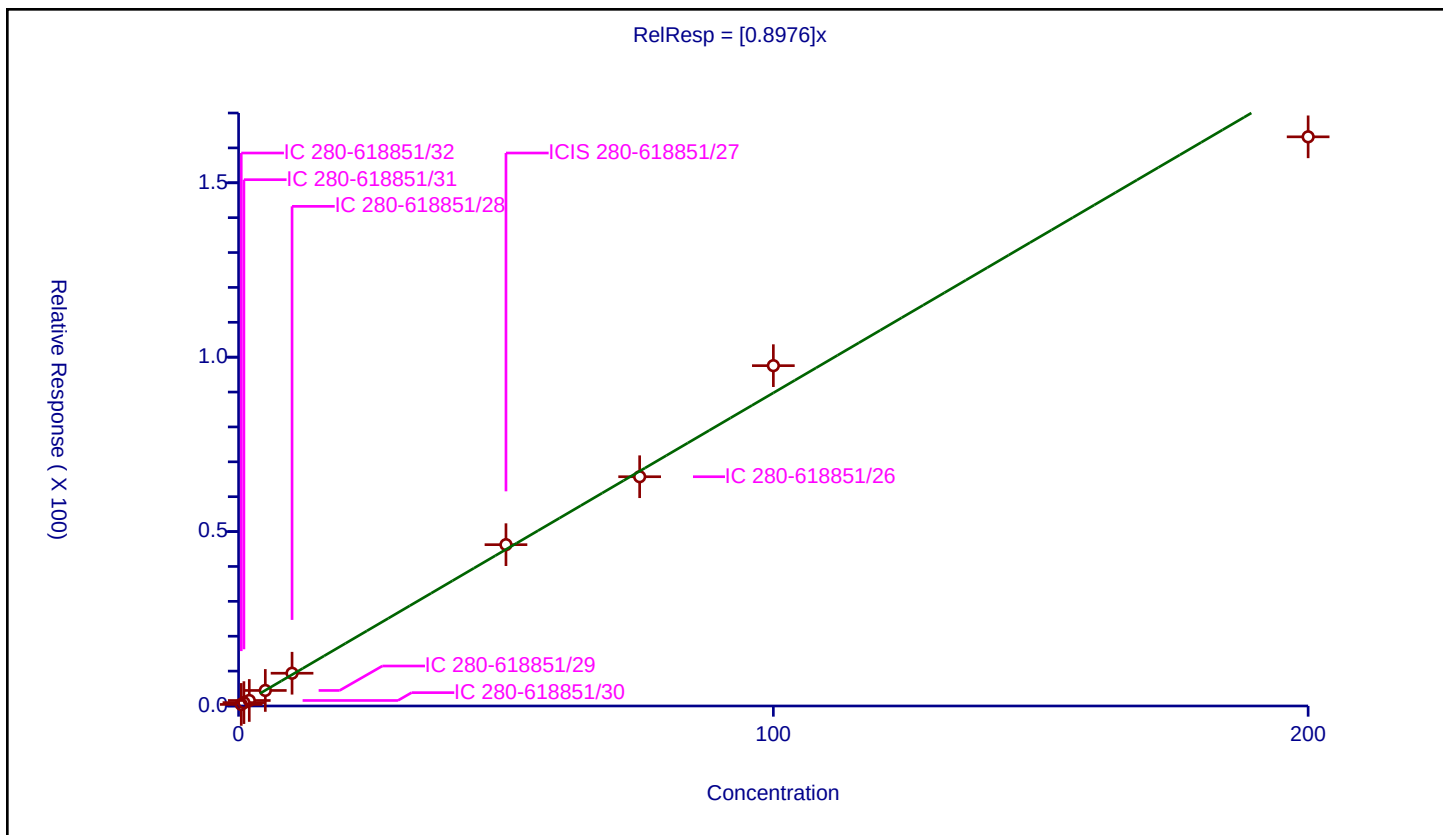
Curve Coefficients

Intercept: 0
Slope: 0.8976

Error Coefficients

Standard Error: 892000
Relative Standard Error: 7.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.450864	50.0	582548.0	0.901728	Y
2	IC 280-618851/31	1.0	0.964206	50.0	586804.0	0.964206	Y
3	IC 280-618851/30	2.0	1.581656	50.0	545346.0	0.790828	Y
4	IC 280-618851/29	5.0	4.449668	50.0	607315.0	0.889934	Y
5	IC 280-618851/28	10.0	9.390583	50.0	608040.0	0.939058	Y
6	ICIS 280-618851/27	50.0	46.249236	50.0	567591.0	0.924985	Y
7	IC 280-618851/26	75.0	65.731554	50.0	581570.0	0.876421	Y
8	IC 280-618851/25	100.0	97.570383	50.0	554038.0	0.975704	Y
9	IC 280-618851/24	200.0	163.175392	50.0	637389.0	0.815877	Y



Calibration

/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

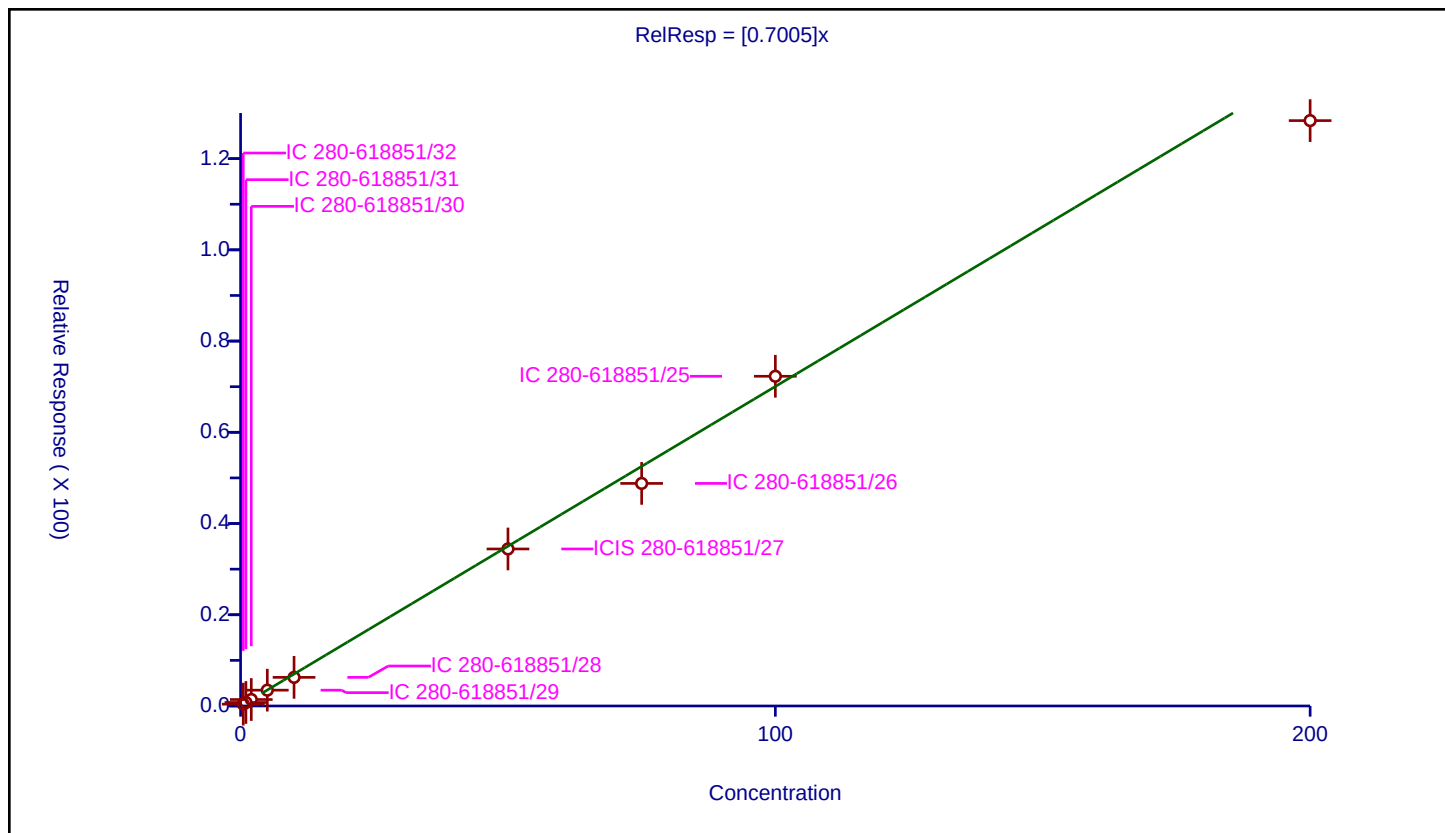
Curve Coefficients

Intercept: 0
Slope: 0.7005

Error Coefficients

Standard Error: 689000
Relative Standard Error: 8.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.400654	50.0	582548.0	0.801307	Y
2	IC 280-618851/31	1.0	0.769252	50.0	586804.0	0.769252	Y
3	IC 280-618851/30	2.0	1.418182	50.0	545346.0	0.709091	Y
4	IC 280-618851/29	5.0	3.467887	50.0	607315.0	0.693577	Y
5	IC 280-618851/28	10.0	6.275327	50.0	608040.0	0.627533	Y
6	ICIS 280-618851/27	50.0	34.426198	50.0	567591.0	0.688524	Y
7	IC 280-618851/26	75.0	48.793438	50.0	581570.0	0.650579	Y
8	IC 280-618851/25	100.0	72.28737	50.0	554038.0	0.722874	Y
9	IC 280-618851/24	200.0	128.334031	50.0	637389.0	0.64167	Y



Calibration

/ trans-1,4-Dichloro-2-butene

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

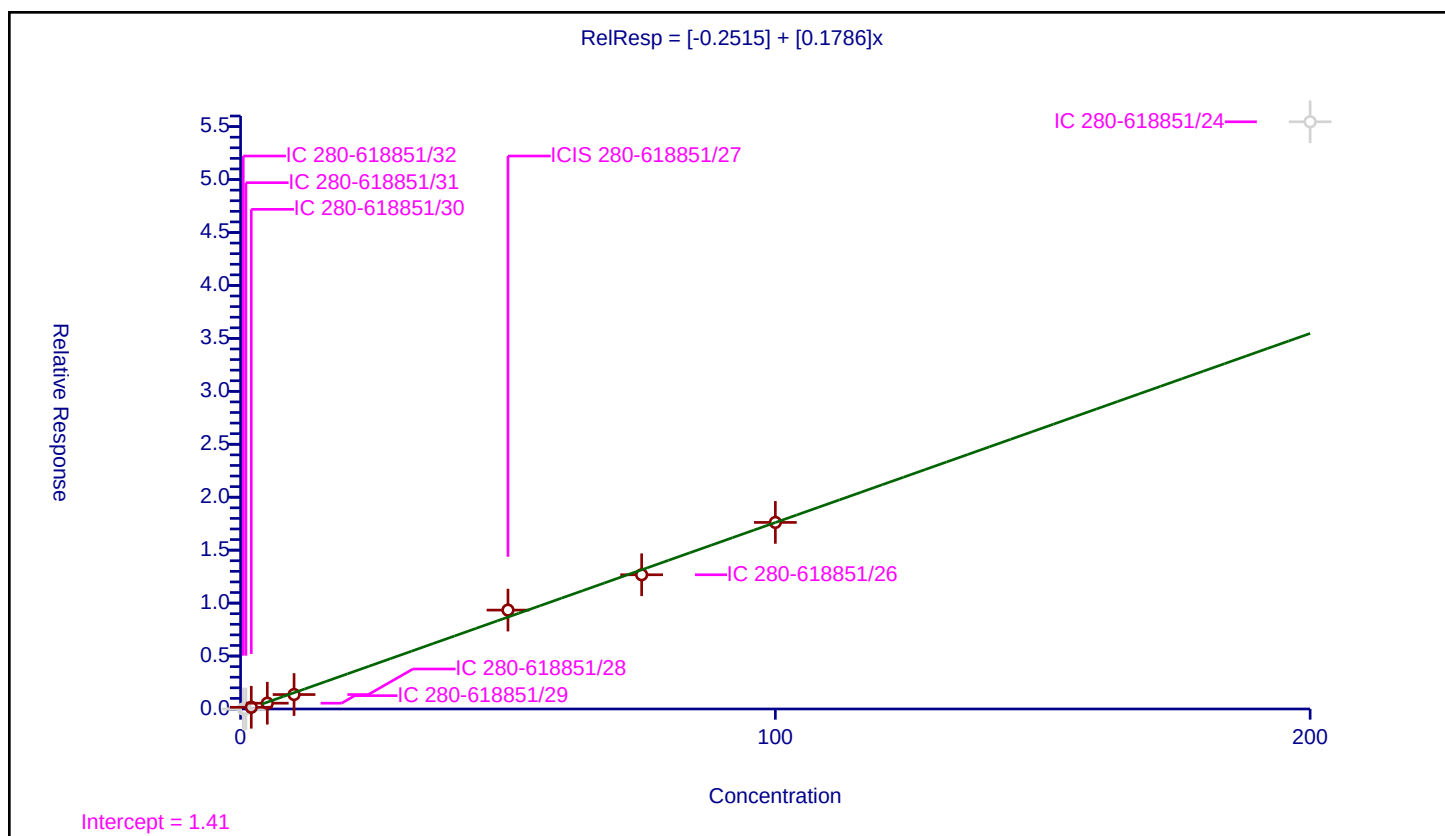
Curve Coefficients

Intercept: -0.2515
Slope: 0.1786

Error Coefficients

Standard Error: 134000
Relative Standard Error: 11.5
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.0	50.0	582548.0	0.0	N
2	IC 280-618851/31	1.0	0.0	50.0	586804.0	0.0	N
3	IC 280-618851/30	2.0	0.163016	50.0	545346.0	0.081508	Y
4	IC 280-618851/29	5.0	0.547327	50.0	607315.0	0.109465	Y
5	IC 280-618851/28	10.0	1.364548	50.0	608040.0	0.136455	Y
6	ICIS 280-618851/27	50.0	9.339648	50.0	567591.0	0.186793	Y
7	IC 280-618851/26	75.0	12.675688	50.0	581570.0	0.169009	Y
8	IC 280-618851/25	100.0	17.620362	50.0	554038.0	0.176204	Y
9	IC 280-618851/24	200.0	55.452322	50.0	637389.0	0.277262	N



Calibration

/ 1,2,3-Trichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

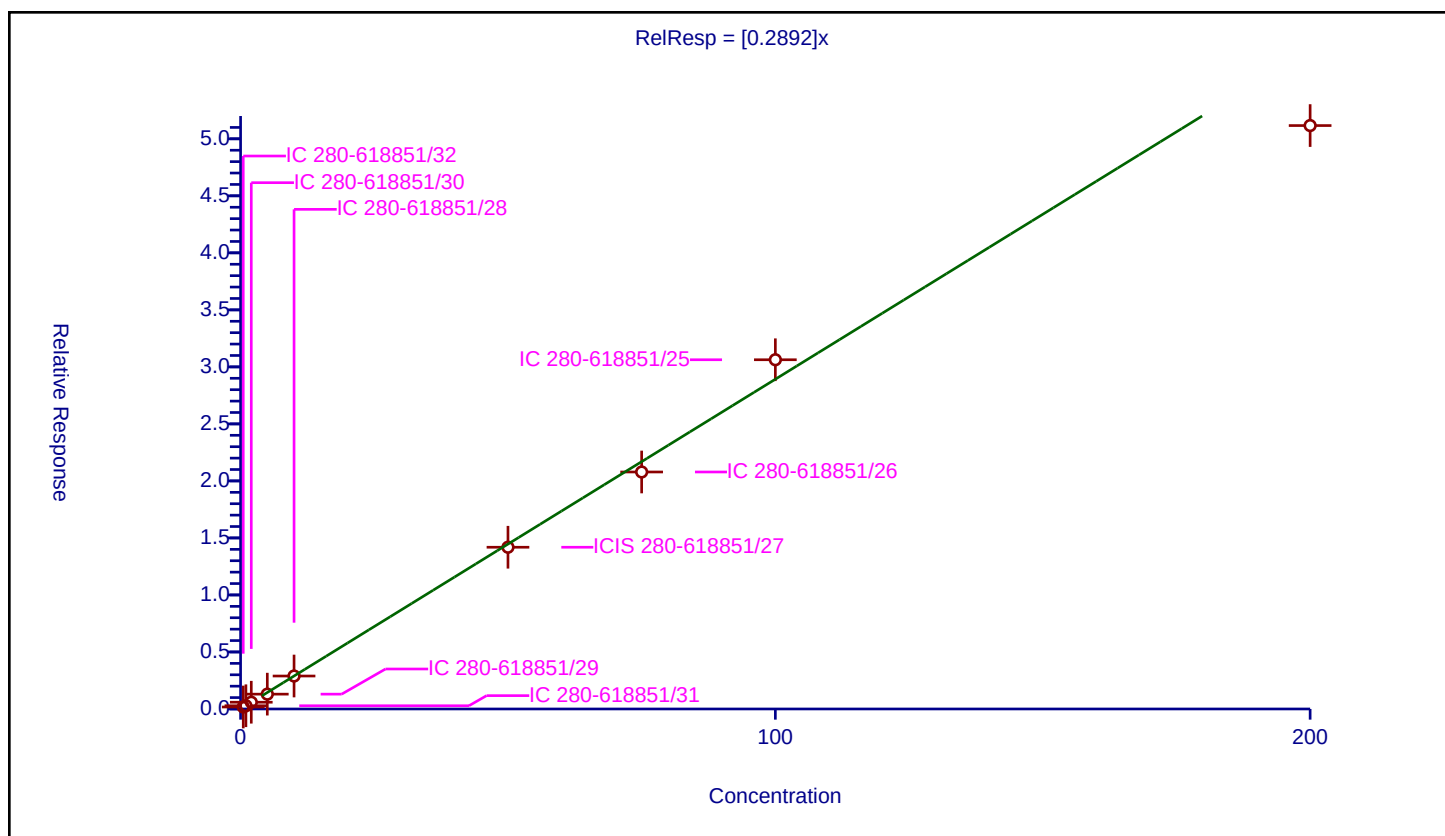
Curve Coefficients

Intercept: 0
Slope: 0.2892

Error Coefficients

Standard Error: 280000
Relative Standard Error: 9.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.175007	50.0	582548.0	0.350014	Y
2	IC 280-618851/31	1.0	0.28374	50.0	586804.0	0.28374	Y
3	IC 280-618851/30	2.0	0.592835	50.0	545346.0	0.296417	Y
4	IC 280-618851/29	5.0	1.302454	50.0	607315.0	0.260491	Y
5	IC 280-618851/28	10.0	2.892326	50.0	608040.0	0.289233	Y
6	ICIS 280-618851/27	50.0	14.185038	50.0	567591.0	0.283701	Y
7	IC 280-618851/26	75.0	20.782365	50.0	581570.0	0.277098	Y
8	IC 280-618851/25	100.0	30.6266	50.0	554038.0	0.306266	Y
9	IC 280-618851/24	200.0	51.162477	50.0	637389.0	0.255812	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

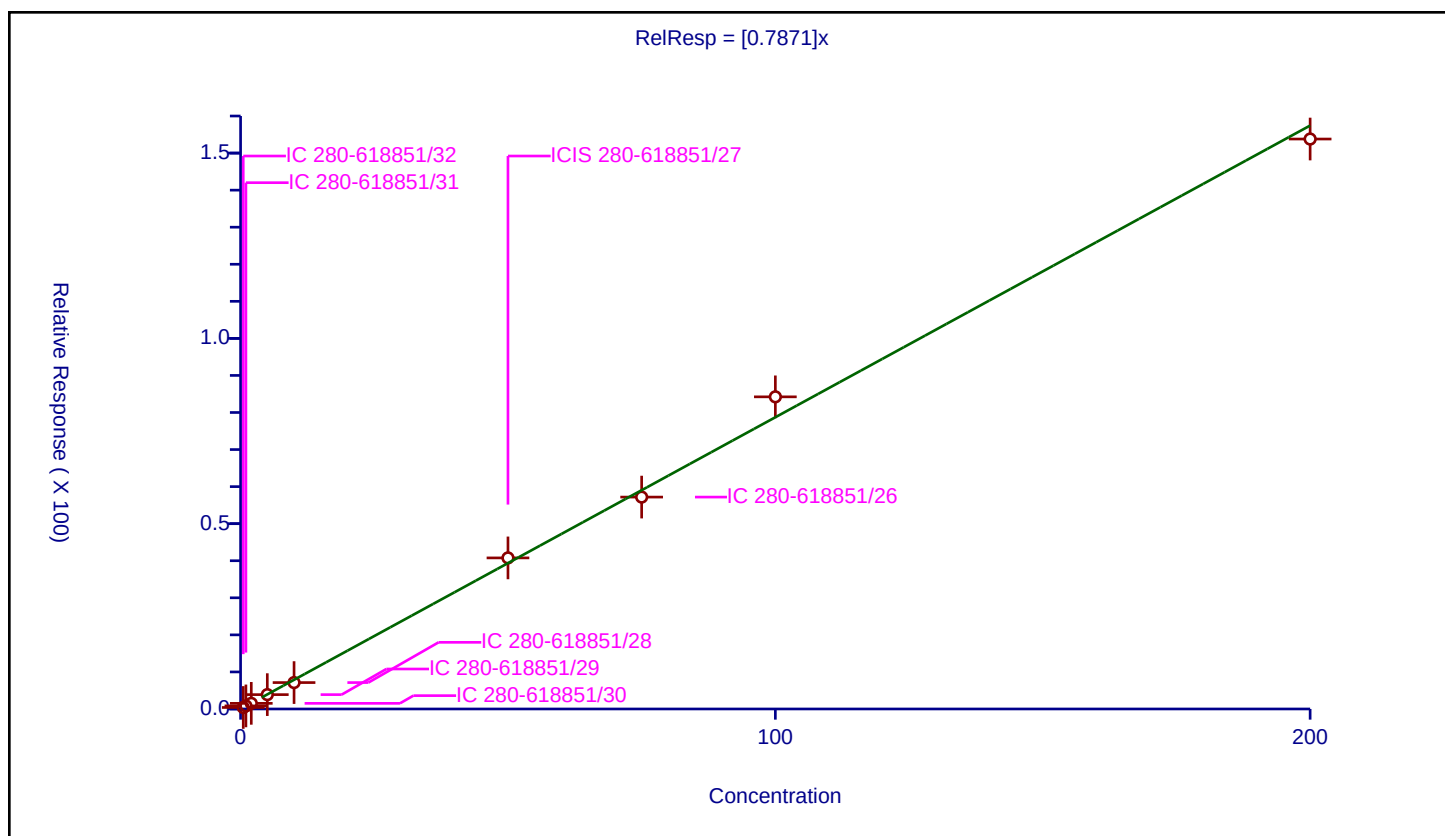
Curve Coefficients

Intercept: 0
Slope: 0.7871

Error Coefficients

Standard Error: 820000
Relative Standard Error: 5.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.409752	50.0	582548.0	0.819503	Y
2	IC 280-618851/31	1.0	0.828982	50.0	586804.0	0.828982	Y
3	IC 280-618851/30	2.0	1.520044	50.0	545346.0	0.760022	Y
4	IC 280-618851/29	5.0	3.871961	50.0	607315.0	0.774392	Y
5	IC 280-618851/28	10.0	7.123873	50.0	608040.0	0.712387	Y
6	ICIS 280-618851/27	50.0	40.764124	50.0	567591.0	0.815282	Y
7	IC 280-618851/26	75.0	57.179617	50.0	581570.0	0.762395	Y
8	IC 280-618851/25	100.0	84.228789	50.0	554038.0	0.842288	Y
9	IC 280-618851/24	200.0	153.788895	50.0	637389.0	0.768944	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

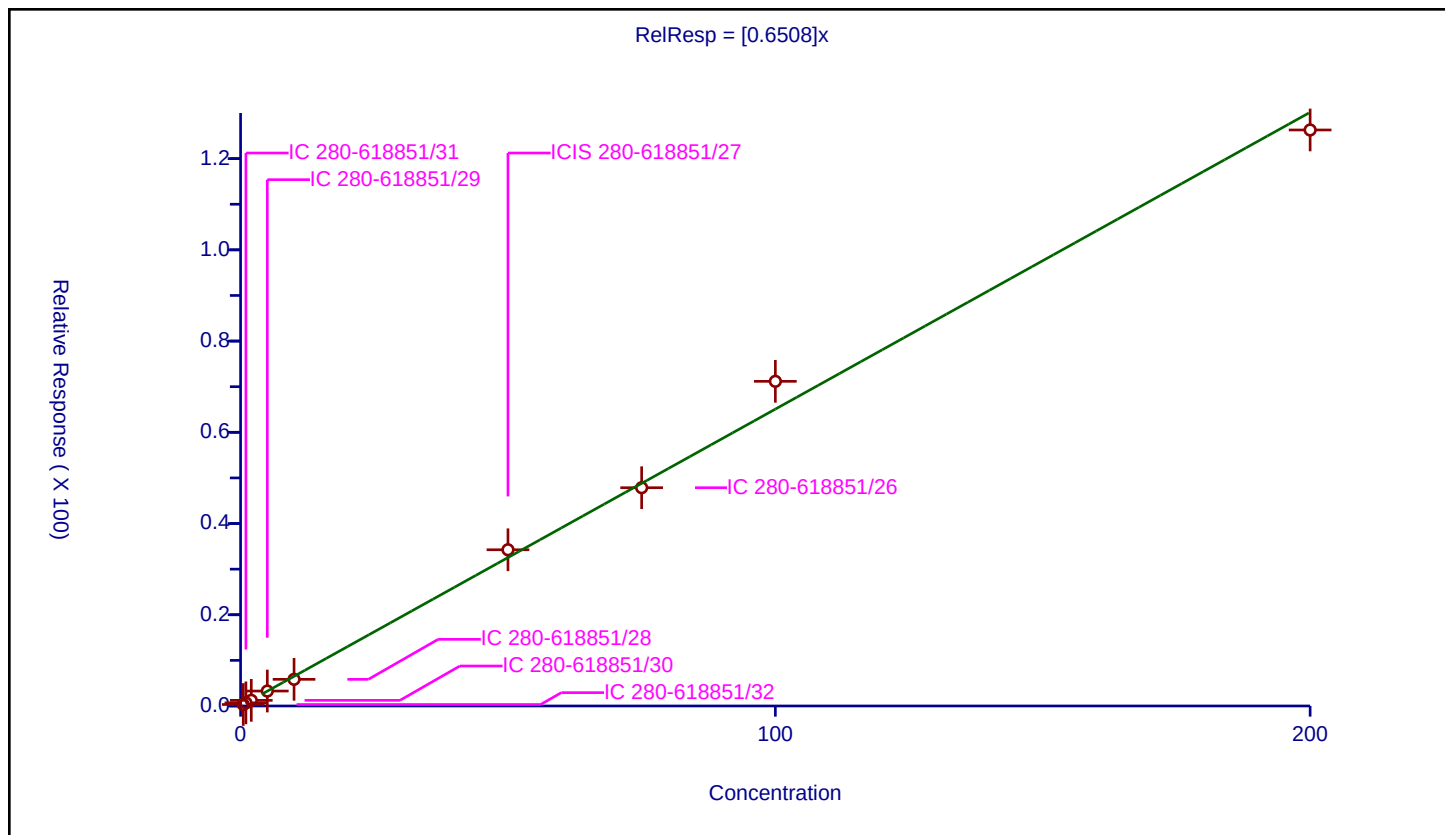
Curve Coefficients

Intercept: 0
 Slope: 0.6508

Error Coefficients

Standard Error: 678000
 Relative Standard Error: 6.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.322549	50.0	582548.0	0.645097	Y
2	IC 280-618851/31	1.0	0.687964	50.0	586804.0	0.687964	Y
3	IC 280-618851/30	2.0	1.23738	50.0	545346.0	0.61869	Y
4	IC 280-618851/29	5.0	3.275648	50.0	607315.0	0.65513	Y
5	IC 280-618851/28	10.0	5.841392	50.0	608040.0	0.584139	Y
6	ICIS 280-618851/27	50.0	34.250631	50.0	567591.0	0.685013	Y
7	IC 280-618851/26	75.0	47.854085	50.0	581570.0	0.638054	Y
8	IC 280-618851/25	100.0	71.176526	50.0	554038.0	0.711765	Y
9	IC 280-618851/24	200.0	126.281674	50.0	637389.0	0.631408	Y



Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

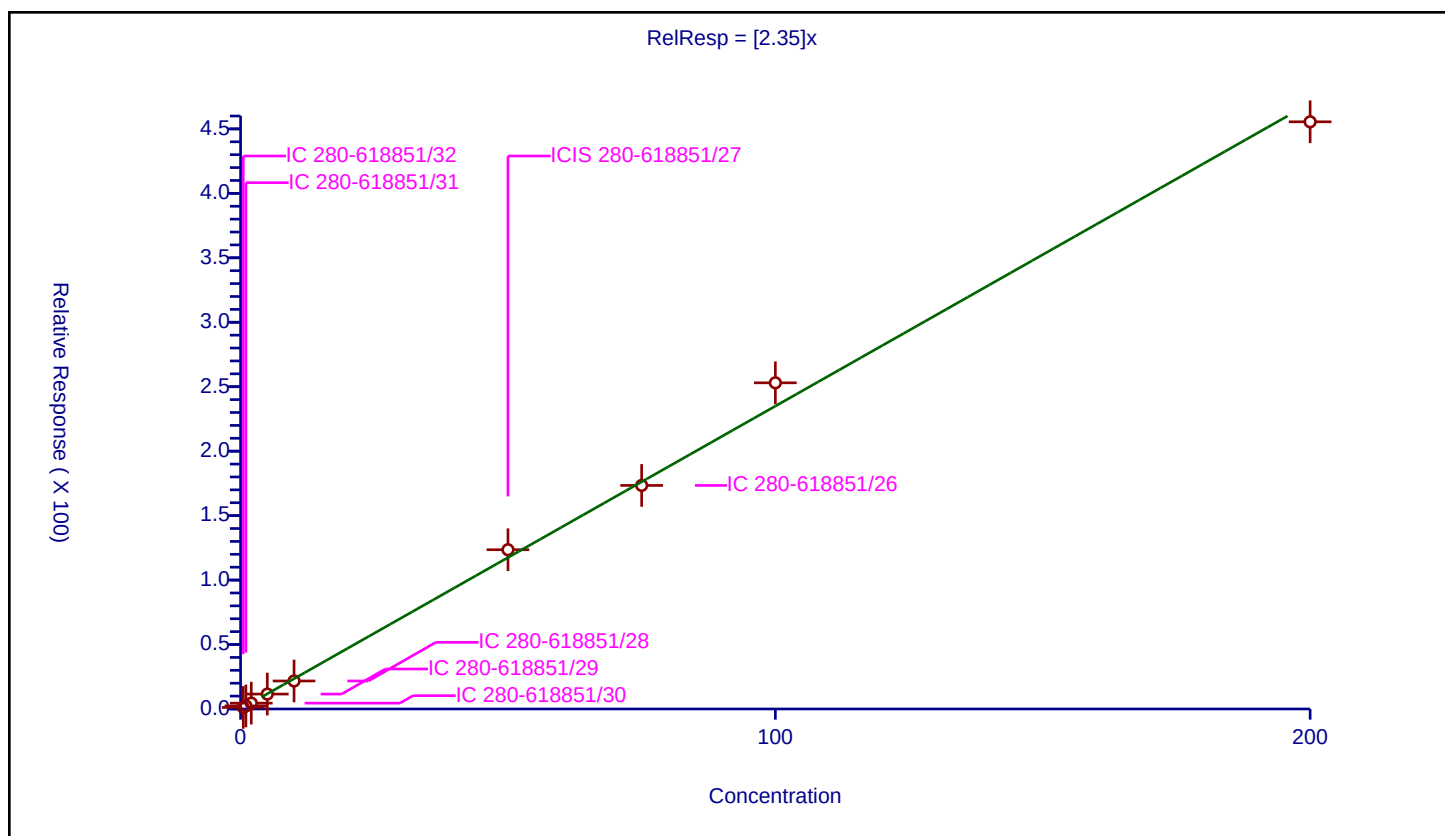
Curve Coefficients

Intercept: 0
Slope: 2.35

Error Coefficients

Standard Error: 2440000
Relative Standard Error: 4.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	1.210887	50.0	582548.0	2.421775	Y
2	IC 280-618851/31	1.0	2.376262	50.0	586804.0	2.376262	Y
3	IC 280-618851/30	2.0	4.537211	50.0	545346.0	2.268606	Y
4	IC 280-618851/29	5.0	11.580234	50.0	607315.0	2.316047	Y
5	IC 280-618851/28	10.0	21.723735	50.0	608040.0	2.172374	Y
6	ICIS 280-618851/27	50.0	123.54759	50.0	567591.0	2.470952	Y
7	IC 280-618851/26	75.0	173.434238	50.0	581570.0	2.312457	Y
8	IC 280-618851/25	100.0	253.02028	50.0	554038.0	2.530203	Y
9	IC 280-618851/24	200.0	455.507312	50.0	637389.0	2.277537	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

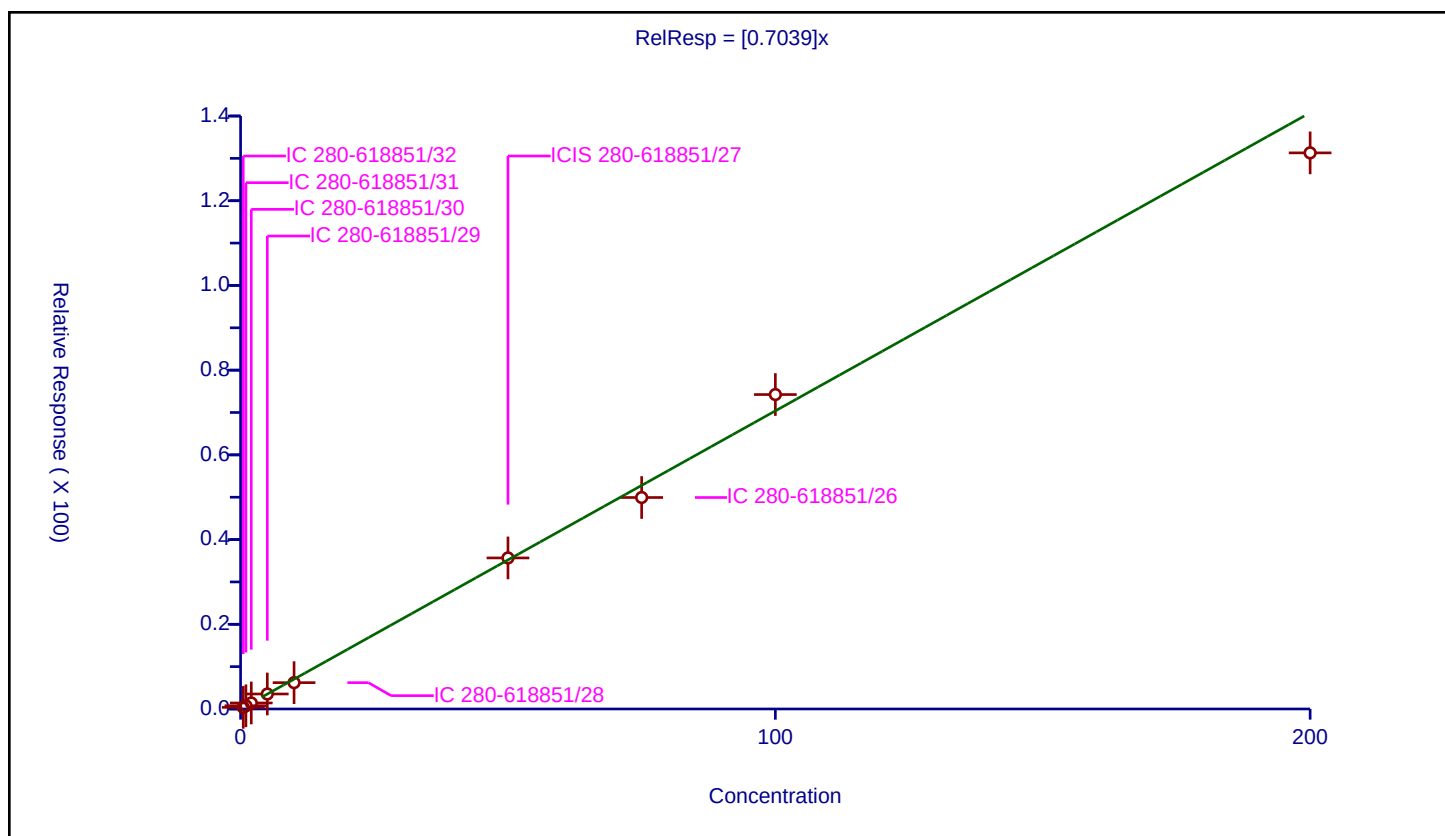
Curve Coefficients

Intercept: 0
 Slope: 0.7039

Error Coefficients

Standard Error: 706000
 Relative Standard Error: 6.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.378166	50.0	582548.0	0.756333	Y
2	IC 280-618851/31	1.0	0.760561	50.0	586804.0	0.760561	Y
3	IC 280-618851/30	2.0	1.420108	50.0	545346.0	0.710054	Y
4	IC 280-618851/29	5.0	3.540173	50.0	607315.0	0.708035	Y
5	IC 280-618851/28	10.0	6.218917	50.0	608040.0	0.621892	Y
6	ICIS 280-618851/27	50.0	35.664942	50.0	567591.0	0.713299	Y
7	IC 280-618851/26	75.0	49.932252	50.0	581570.0	0.665763	Y
8	IC 280-618851/25	100.0	74.240395	50.0	554038.0	0.742404	Y
9	IC 280-618851/24	200.0	131.301215	50.0	637389.0	0.656506	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

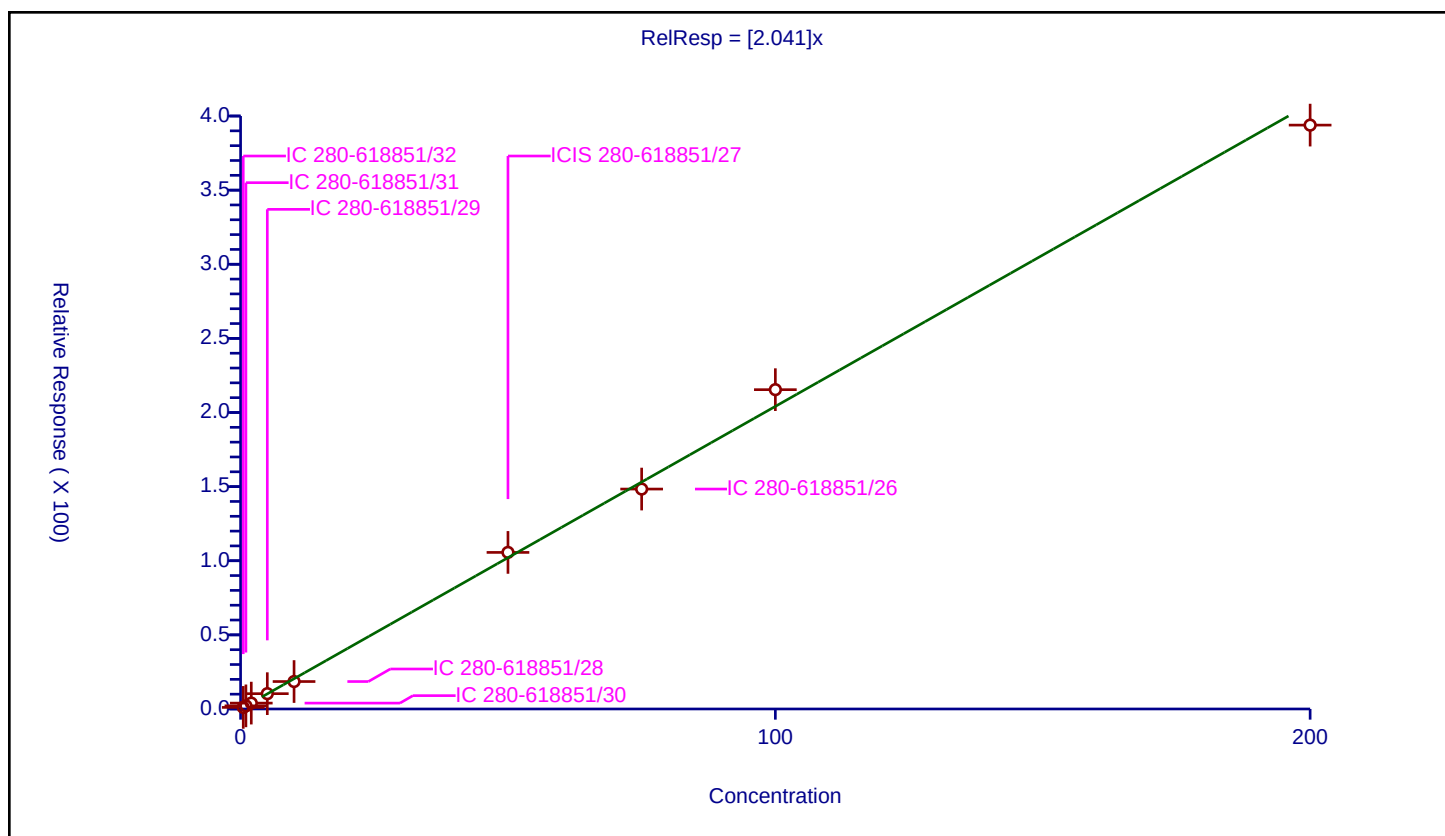
Curve Coefficients

Intercept: 0
Slope: 2.041

Error Coefficients

Standard Error: 2100000
Relative Standard Error: 5.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	1.07313	50.0	582548.0	2.146261	Y
2	IC 280-618851/31	1.0	2.107603	50.0	586804.0	2.107603	Y
3	IC 280-618851/30	2.0	3.967023	50.0	545346.0	1.983511	Y
4	IC 280-618851/29	5.0	10.341915	50.0	607315.0	2.068383	Y
5	IC 280-618851/28	10.0	18.512022	50.0	608040.0	1.851202	Y
6	ICIS 280-618851/27	50.0	105.626146	50.0	567591.0	2.112523	Y
7	IC 280-618851/26	75.0	148.366147	50.0	581570.0	1.978215	Y
8	IC 280-618851/25	100.0	215.40481	50.0	554038.0	2.154048	Y
9	IC 280-618851/24	200.0	393.862931	50.0	637389.0	1.969315	Y



Calibration

/ 1,2,4-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

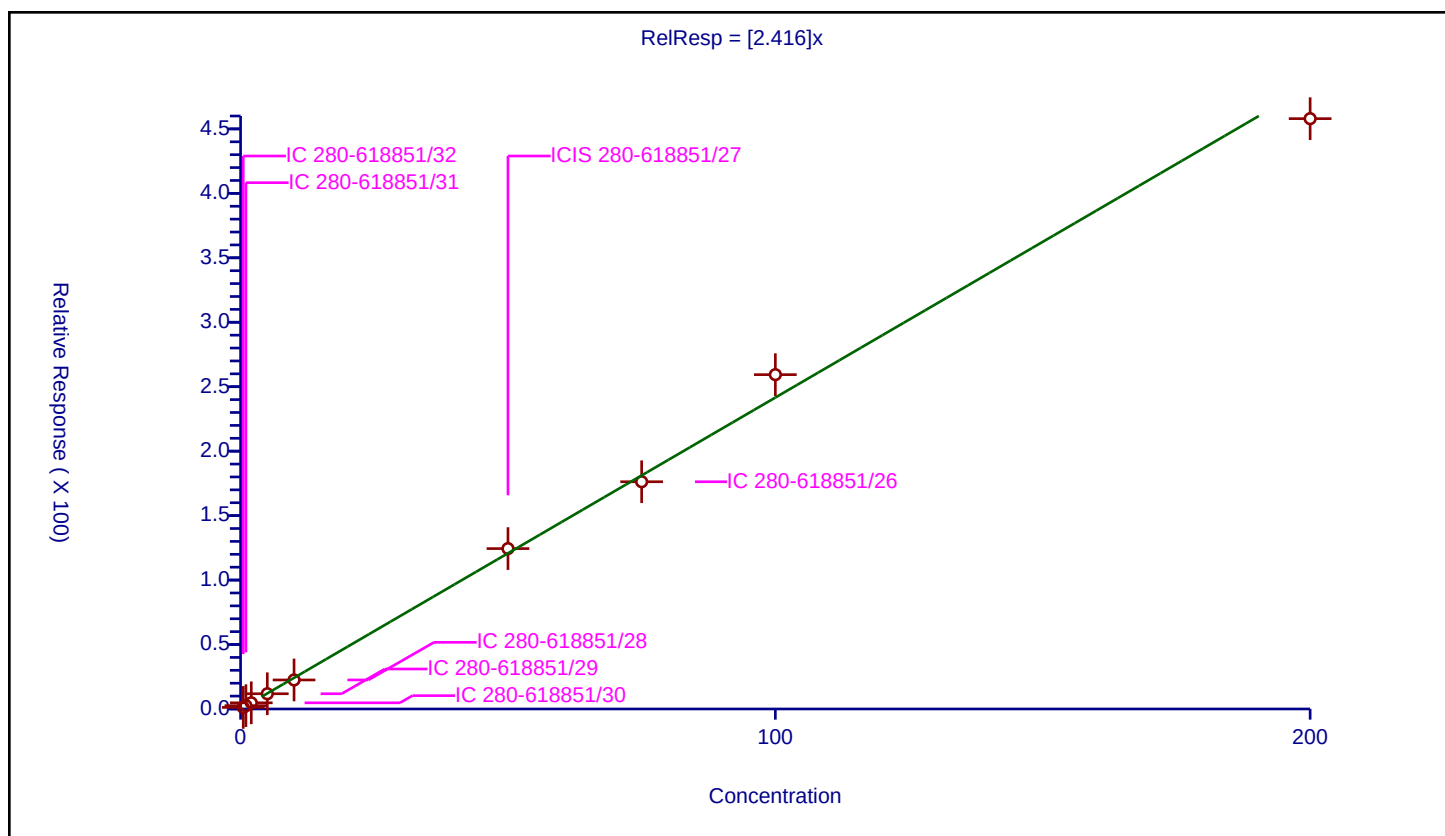
Curve Coefficients

Intercept: 0
Slope: 2.416

Error Coefficients

Standard Error: 2470000
Relative Standard Error: 4.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	1.215007	50.0	582548.0	2.430014	Y
2	IC 280-618851/31	1.0	2.580674	50.0	586804.0	2.580674	Y
3	IC 280-618851/30	2.0	4.789803	50.0	545346.0	2.394902	Y
4	IC 280-618851/29	5.0	11.814627	50.0	607315.0	2.362925	Y
5	IC 280-618851/28	10.0	22.5236	50.0	608040.0	2.25236	Y
6	ICIS 280-618851/27	50.0	124.420842	50.0	567591.0	2.488417	Y
7	IC 280-618851/26	75.0	176.290472	50.0	581570.0	2.35054	Y
8	IC 280-618851/25	100.0	259.359376	50.0	554038.0	2.593594	Y
9	IC 280-618851/24	200.0	457.950404	50.0	637389.0	2.289752	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

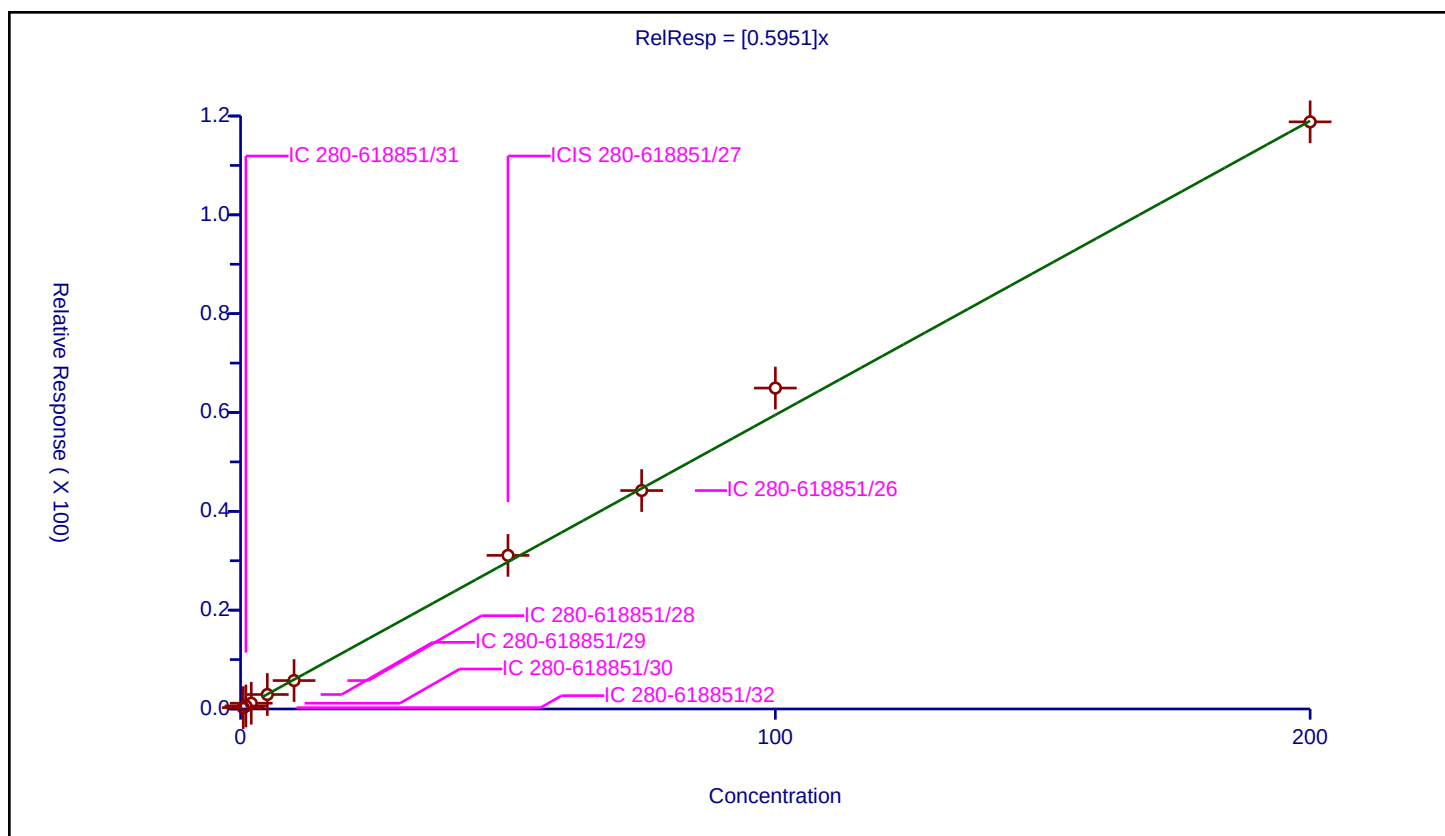
Curve Coefficients

Intercept: 0
 Slope: 0.5951

Error Coefficients

Standard Error: 633000
 Relative Standard Error: 5.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.271222	50.0	582548.0	0.542445	Y
2	IC 280-618851/31	1.0	0.612896	50.0	586804.0	0.612896	Y
3	IC 280-618851/30	2.0	1.167057	50.0	545346.0	0.583529	Y
4	IC 280-618851/29	5.0	2.932416	50.0	607315.0	0.586483	Y
5	IC 280-618851/28	10.0	5.757763	50.0	608040.0	0.575776	Y
6	ICIS 280-618851/27	50.0	31.086117	50.0	567591.0	0.621722	Y
7	IC 280-618851/26	75.0	44.203191	50.0	581570.0	0.589376	Y
8	IC 280-618851/25	100.0	64.942296	50.0	554038.0	0.649423	Y
9	IC 280-618851/24	200.0	118.820453	50.0	637389.0	0.594102	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

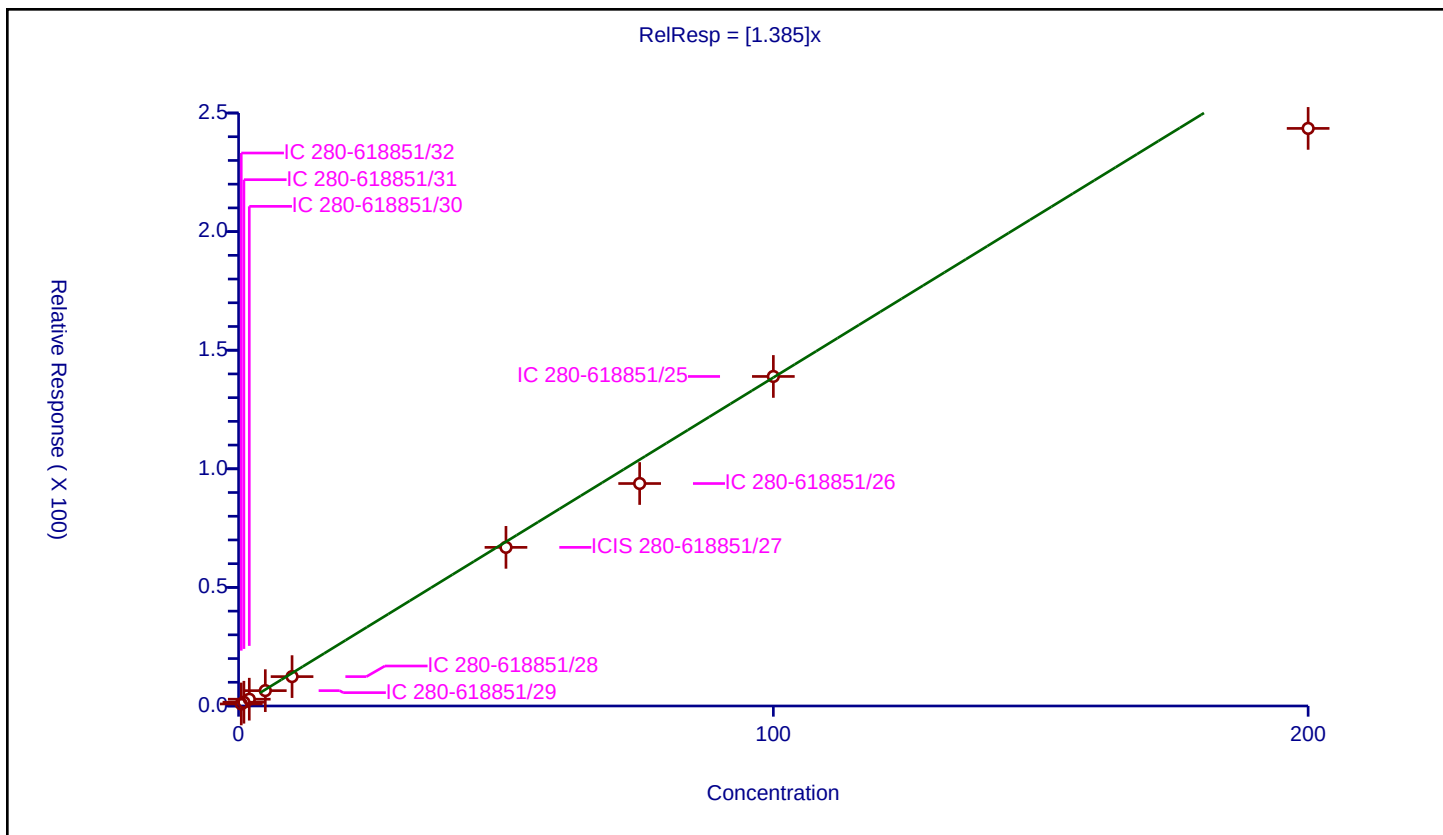
Curve Coefficients

Intercept: 0
Slope: 1.385

Error Coefficients

Standard Error: 1310000
Relative Standard Error: 12.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.862161	50.0	582548.0	1.724321	Y
2	IC 280-618851/31	1.0	1.581704	50.0	586804.0	1.581704	Y
3	IC 280-618851/30	2.0	2.859652	50.0	545346.0	1.429826	Y
4	IC 280-618851/29	5.0	6.468884	50.0	607315.0	1.293777	Y
5	IC 280-618851/28	10.0	12.388741	50.0	608040.0	1.238874	Y
6	ICIS 280-618851/27	50.0	66.87791	50.0	567591.0	1.337558	Y
7	IC 280-618851/26	75.0	93.793868	50.0	581570.0	1.250585	Y
8	IC 280-618851/25	100.0	138.931174	50.0	554038.0	1.389312	Y
9	IC 280-618851/24	200.0	243.515498	50.0	637389.0	1.217577	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

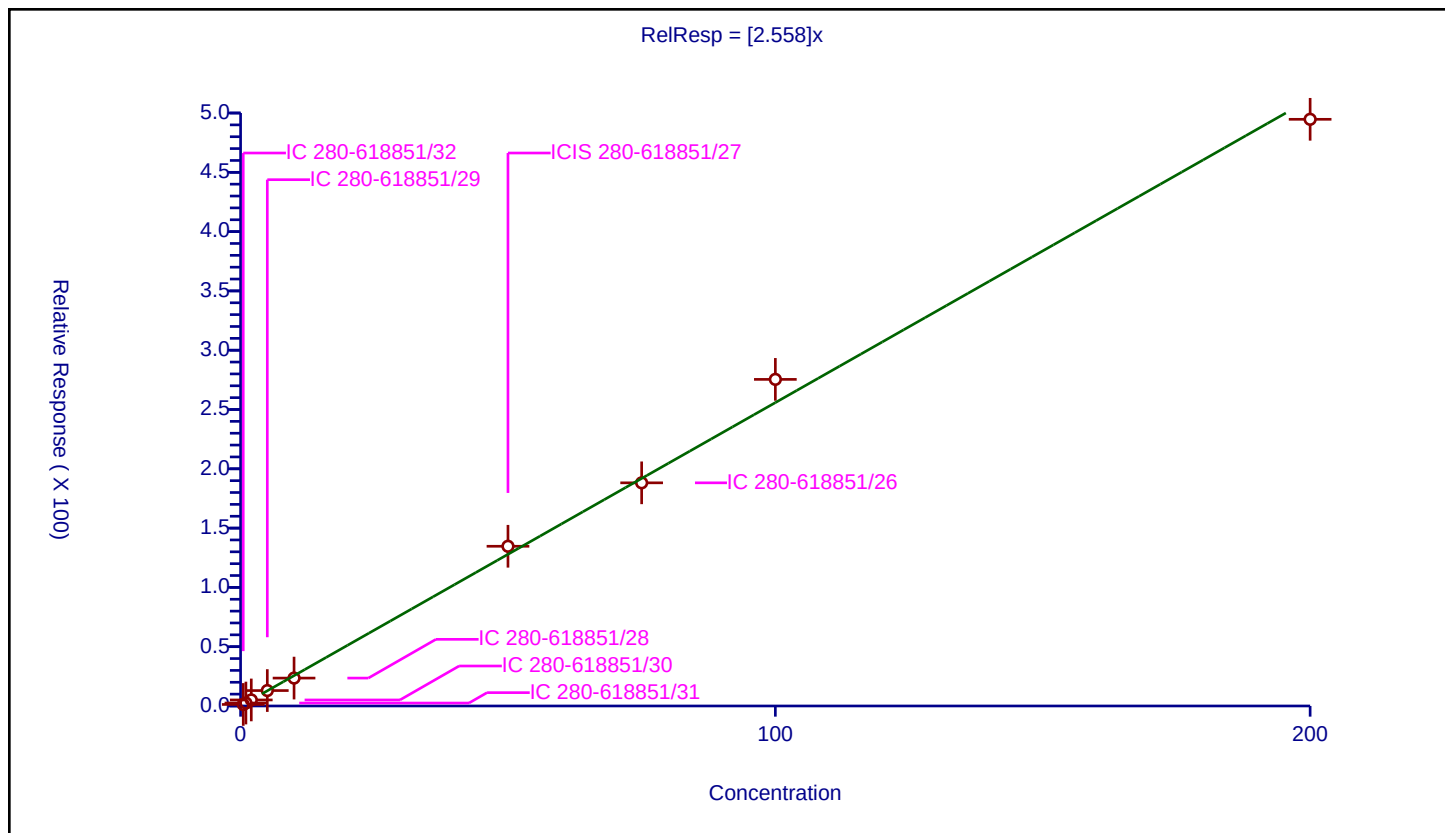
Curve Coefficients

Intercept: 0
Slope: 2.558

Error Coefficients

Standard Error: 2650000
Relative Standard Error: 4.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	1.295601	50.0	582548.0	2.591203	Y
2	IC 280-618851/31	1.0	2.494871	50.0	586804.0	2.494871	Y
3	IC 280-618851/30	2.0	5.10254	50.0	545346.0	2.55127	Y
4	IC 280-618851/29	5.0	13.006183	50.0	607315.0	2.601237	Y
5	IC 280-618851/28	10.0	23.541708	50.0	608040.0	2.354171	Y
6	ICIS 280-618851/27	50.0	134.684042	50.0	567591.0	2.693681	Y
7	IC 280-618851/26	75.0	188.175284	50.0	581570.0	2.509004	Y
8	IC 280-618851/25	100.0	275.398077	50.0	554038.0	2.753981	Y
9	IC 280-618851/24	200.0	494.703784	50.0	637389.0	2.473519	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

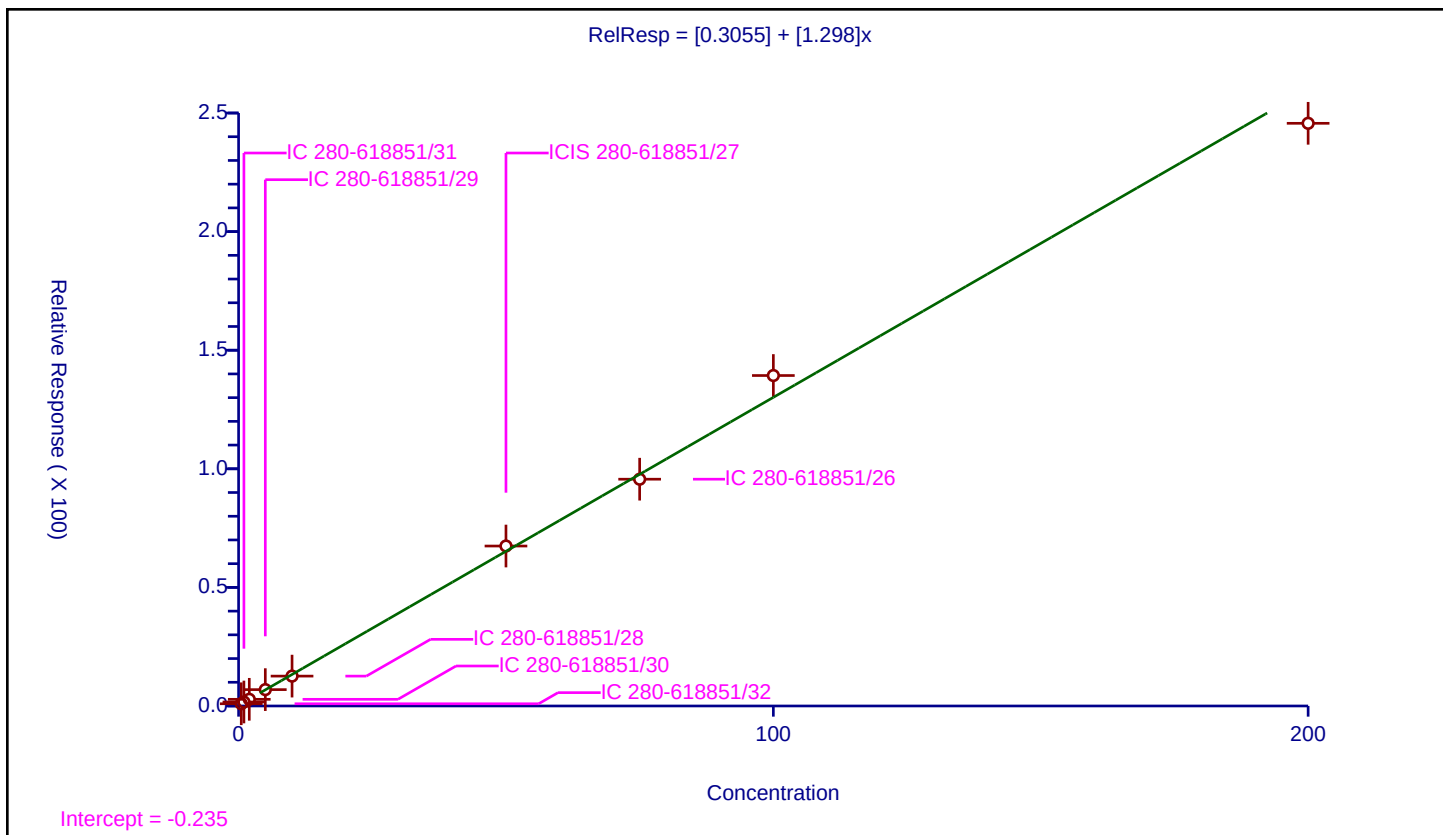
Curve Coefficients

Intercept: 0.3055
 Slope: 1.298

Error Coefficients

Standard Error: 1420000
 Relative Standard Error: 5.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.939665	50.0	582548.0	1.87933	Y
2	IC 280-618851/31	1.0	1.685231	50.0	586804.0	1.685231	Y
3	IC 280-618851/30	2.0	2.821236	50.0	545346.0	1.410618	Y
4	IC 280-618851/29	5.0	6.897327	50.0	607315.0	1.379465	Y
5	IC 280-618851/28	10.0	12.593908	50.0	608040.0	1.259391	Y
6	ICIS 280-618851/27	50.0	67.441344	50.0	567591.0	1.348827	Y
7	IC 280-618851/26	75.0	95.613942	50.0	581570.0	1.274853	Y
8	IC 280-618851/25	100.0	139.328891	50.0	554038.0	1.393289	Y
9	IC 280-618851/24	200.0	245.661205	50.0	637389.0	1.228306	Y



Calibration

/ n-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

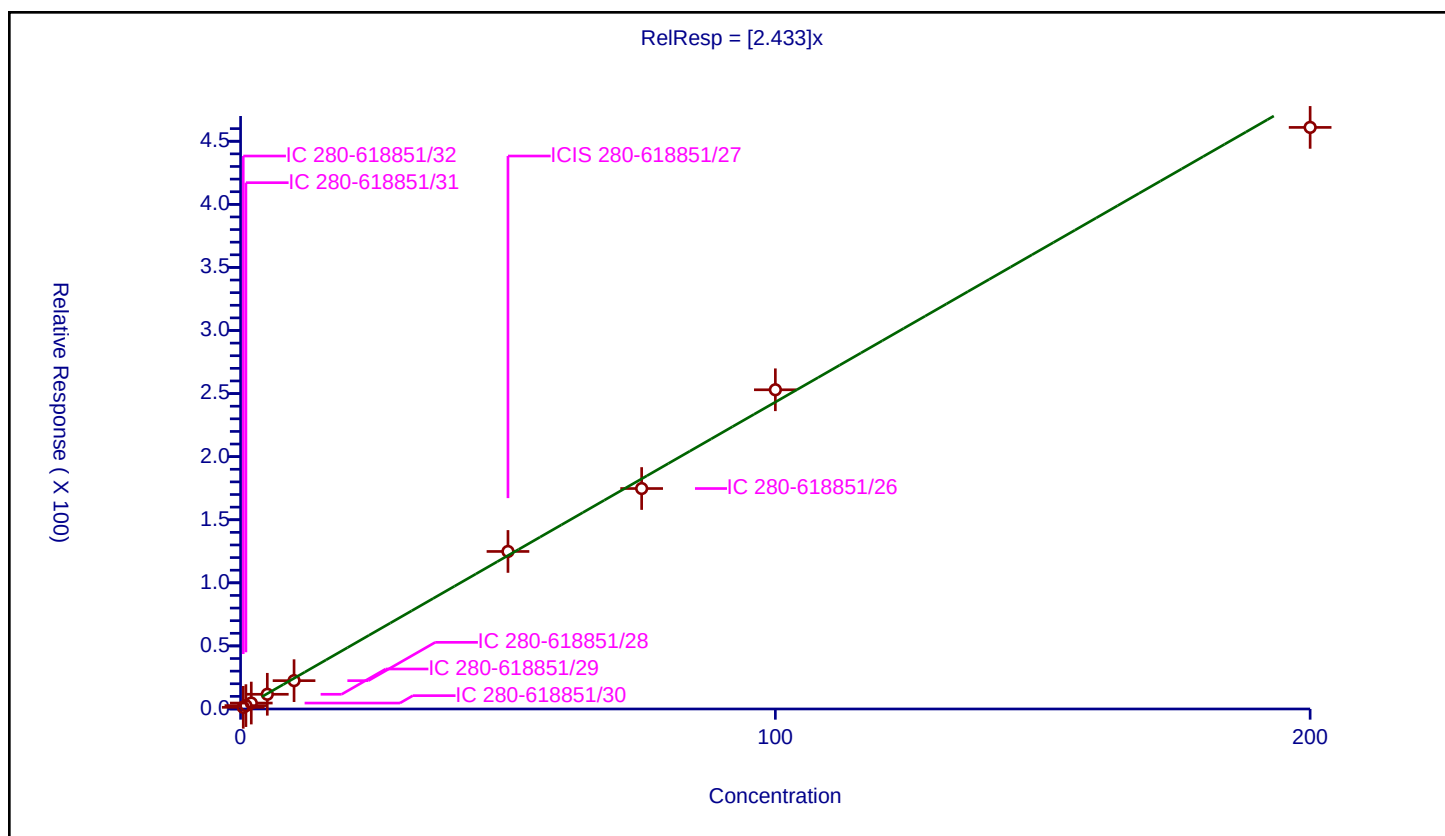
Curve Coefficients

Intercept: 0
Slope: 2.433

Error Coefficients

Standard Error: 2470000
Relative Standard Error: 6.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	1.31148	50.0	582548.0	2.62296	Y
2	IC 280-618851/31	1.0	2.679941	50.0	586804.0	2.679941	Y
3	IC 280-618851/30	2.0	4.701694	50.0	545346.0	2.350847	Y
4	IC 280-618851/29	5.0	11.662729	50.0	607315.0	2.332546	Y
5	IC 280-618851/28	10.0	22.449428	50.0	608040.0	2.244943	Y
6	ICIS 280-618851/27	50.0	124.859274	50.0	567591.0	2.497185	Y
7	IC 280-618851/26	75.0	174.736145	50.0	581570.0	2.329815	Y
8	IC 280-618851/25	100.0	253.008729	50.0	554038.0	2.530087	Y
9	IC 280-618851/24	200.0	460.983324	50.0	637389.0	2.304917	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

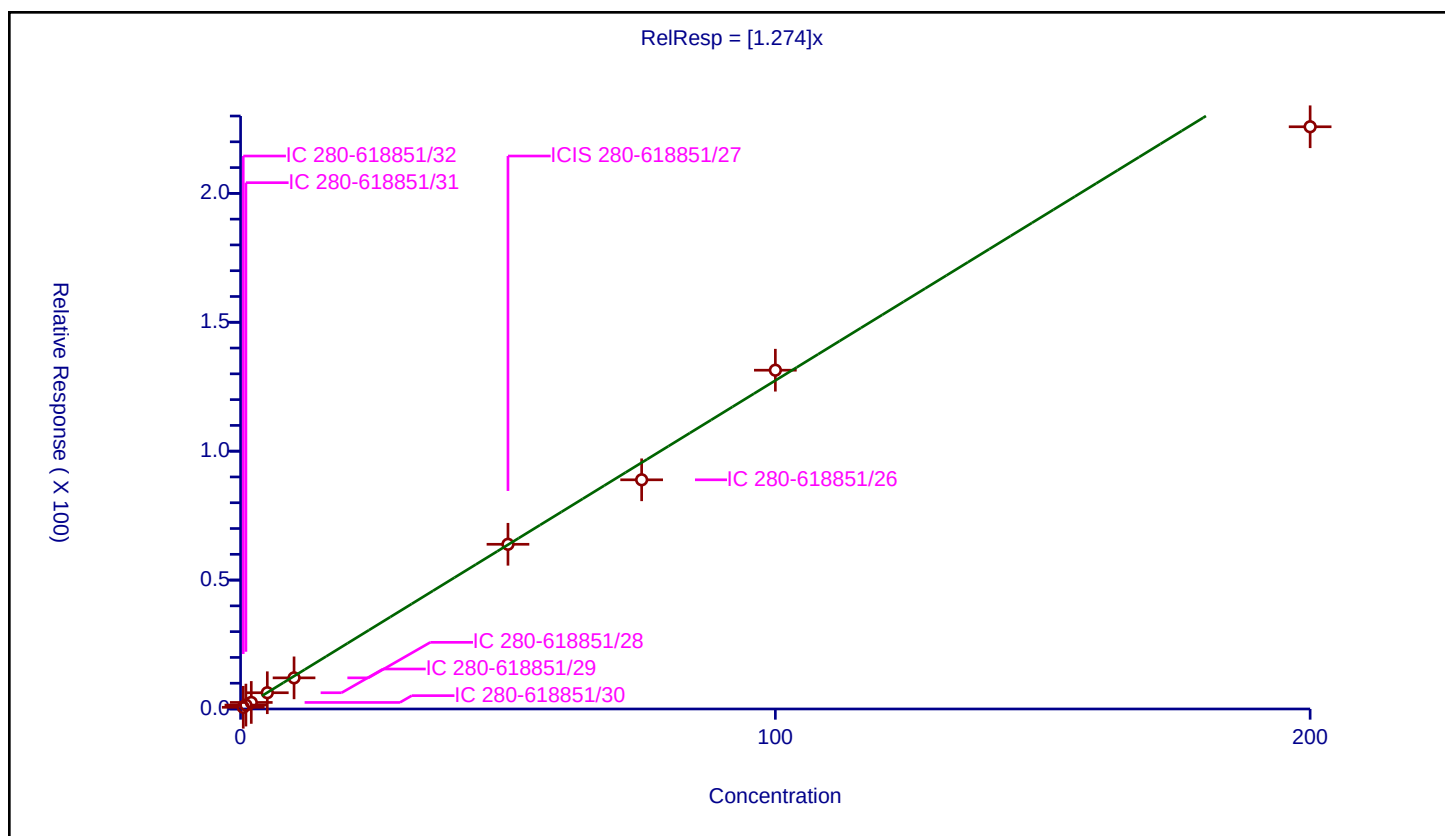
Curve Coefficients

Intercept: 0
Slope: 1.274

Error Coefficients

Standard Error: 1230000
Relative Standard Error: 8.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.653423	50.0	582548.0	1.306845	Y
2	IC 280-618851/31	1.0	1.514049	50.0	586804.0	1.514049	Y
3	IC 280-618851/30	2.0	2.543339	50.0	545346.0	1.27167	Y
4	IC 280-618851/29	5.0	6.30159	50.0	607315.0	1.260318	Y
5	IC 280-618851/28	10.0	12.077824	50.0	608040.0	1.207782	Y
6	ICIS 280-618851/27	50.0	63.884998	50.0	567591.0	1.2777	Y
7	IC 280-618851/26	75.0	88.90039	50.0	581570.0	1.185339	Y
8	IC 280-618851/25	100.0	131.410932	50.0	554038.0	1.314109	Y
9	IC 280-618851/24	200.0	225.835008	50.0	637389.0	1.129175	Y



Calibration

/ 1,2-Dibromo-3-Chloropropane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

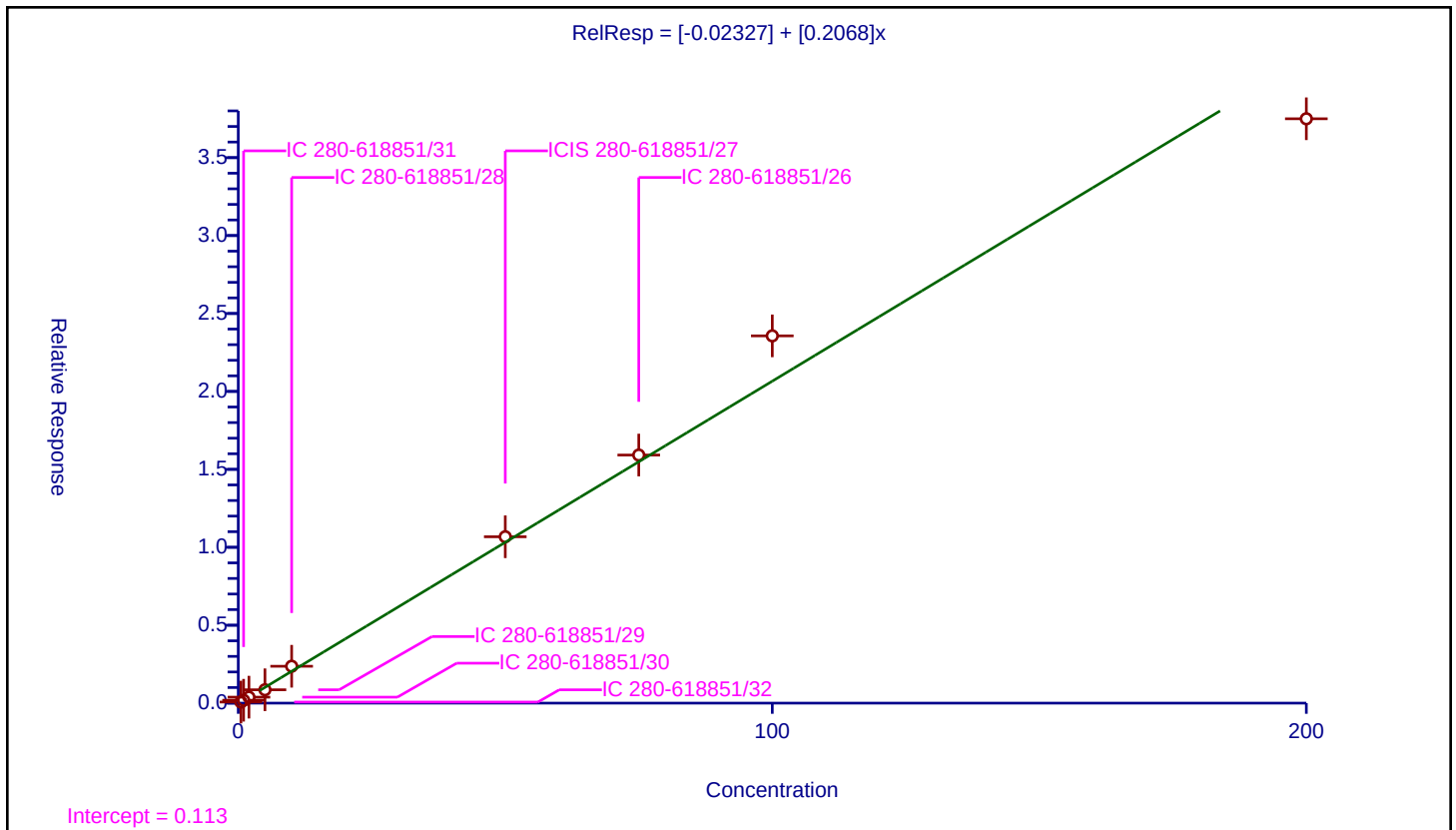
Curve Coefficients

Intercept: -0.02327
 Slope: 0.2068

Error Coefficients

Standard Error: 222000
 Relative Standard Error: 11.2
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.069093	50.0	582548.0	0.138186	Y
2	IC 280-618851/31	1.0	0.185156	50.0	586804.0	0.185156	Y
3	IC 280-618851/30	2.0	0.383426	50.0	545346.0	0.191713	Y
4	IC 280-618851/29	5.0	0.856228	50.0	607315.0	0.171246	Y
5	IC 280-618851/28	10.0	2.366045	50.0	608040.0	0.236604	Y
6	ICIS 280-618851/27	50.0	10.675293	50.0	567591.0	0.213506	Y
7	IC 280-618851/26	75.0	15.918204	50.0	581570.0	0.212243	Y
8	IC 280-618851/25	100.0	23.5649	50.0	554038.0	0.235649	Y
9	IC 280-618851/24	200.0	37.493744	50.0	637389.0	0.187469	Y



Calibration

/ 1,2,4-Trichlorobenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

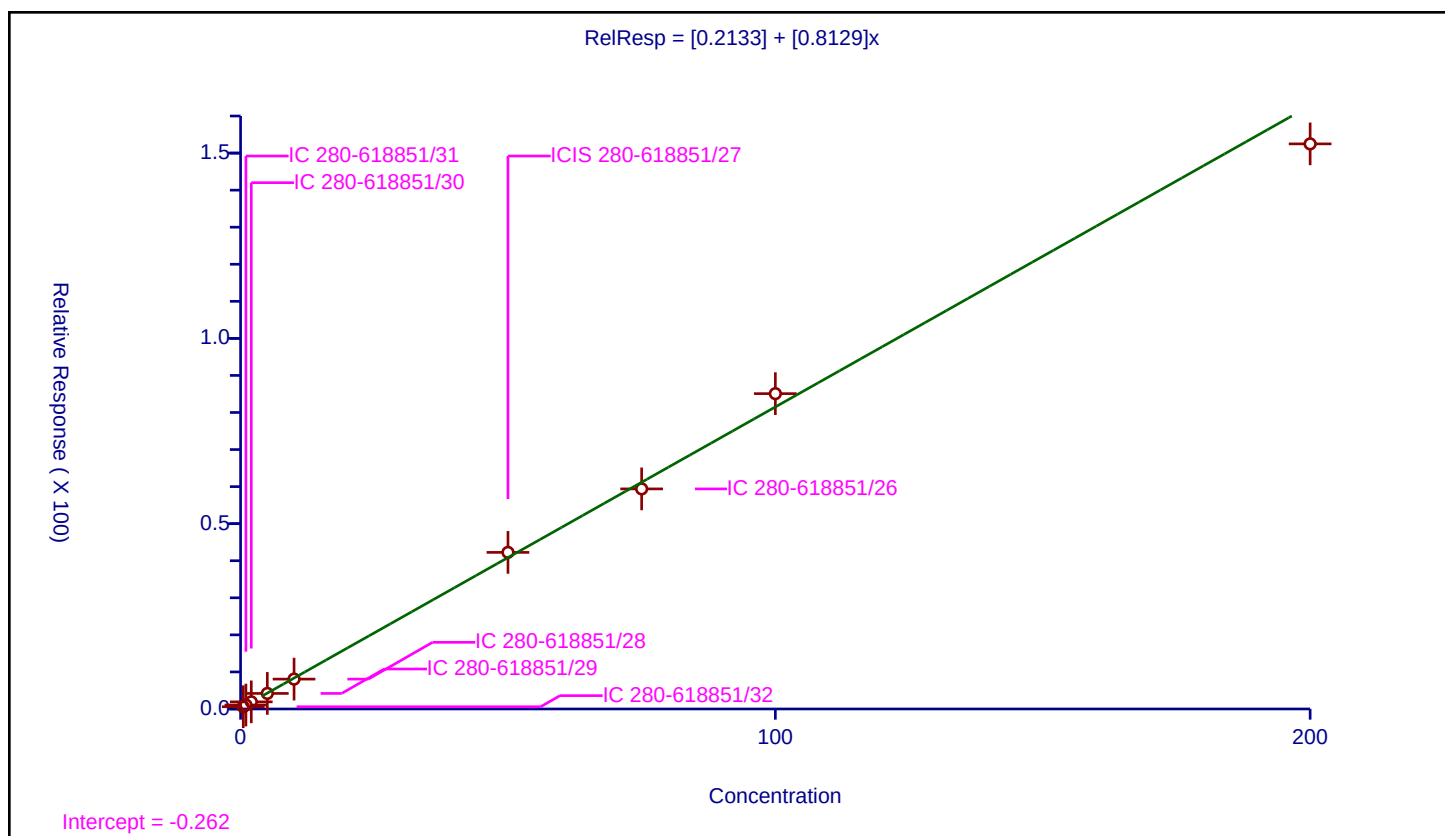
Curve Coefficients

Intercept: 0.2133
 Slope: 0.8129

Error Coefficients

Standard Error: 877000
 Relative Standard Error: 4.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.604929	50.0	582548.0	1.209857	Y
2	IC 280-618851/31	1.0	1.070204	50.0	586804.0	1.070204	Y
3	IC 280-618851/30	2.0	1.922358	50.0	545346.0	0.961179	Y
4	IC 280-618851/29	5.0	4.195187	50.0	607315.0	0.839037	Y
5	IC 280-618851/28	10.0	8.059174	50.0	608040.0	0.805917	Y
6	ICIS 280-618851/27	50.0	42.258158	50.0	567591.0	0.845163	Y
7	IC 280-618851/26	75.0	59.386746	50.0	581570.0	0.791823	Y
8	IC 280-618851/25	100.0	85.089651	50.0	554038.0	0.850897	Y
9	IC 280-618851/24	200.0	152.480353	50.0	637389.0	0.762402	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

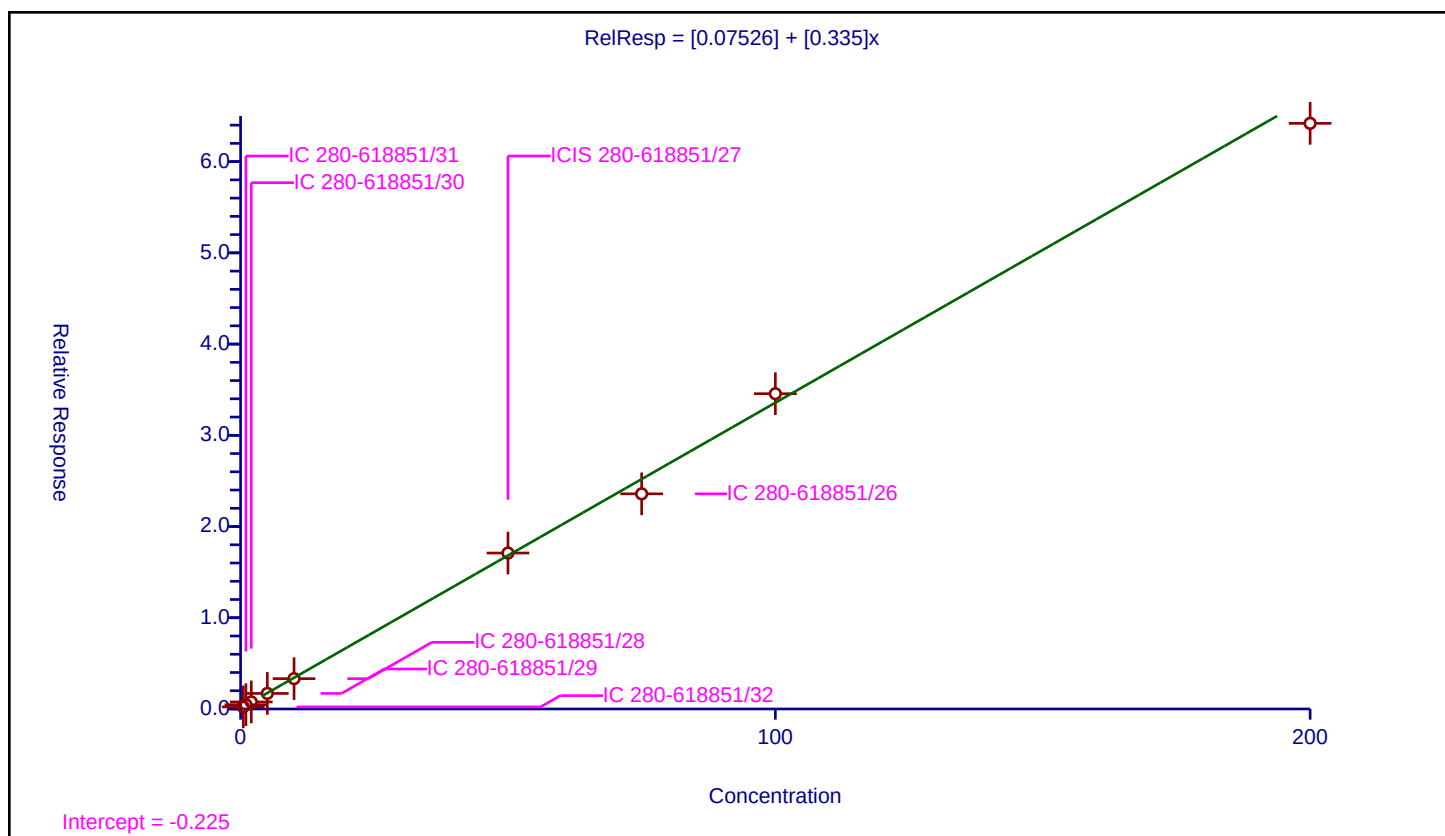
Curve Coefficients

Intercept: 0.07526
Slope: 0.335

Error Coefficients

Standard Error: 365000
Relative Standard Error: 8.0
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.22805	50.0	582548.0	0.4561	Y
2	IC 280-618851/31	1.0	0.464891	50.0	586804.0	0.464891	Y
3	IC 280-618851/30	2.0	0.773087	50.0	545346.0	0.386544	Y
4	IC 280-618851/29	5.0	1.707022	50.0	607315.0	0.341404	Y
5	IC 280-618851/28	10.0	3.324041	50.0	608040.0	0.332404	Y
6	ICIS 280-618851/27	50.0	17.096025	50.0	567591.0	0.341921	Y
7	IC 280-618851/26	75.0	23.584693	50.0	581570.0	0.314463	Y
8	IC 280-618851/25	100.0	34.561167	50.0	554038.0	0.345612	Y
9	IC 280-618851/24	200.0	64.196825	50.0	637389.0	0.320984	Y



Calibration

/ Naphthalene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

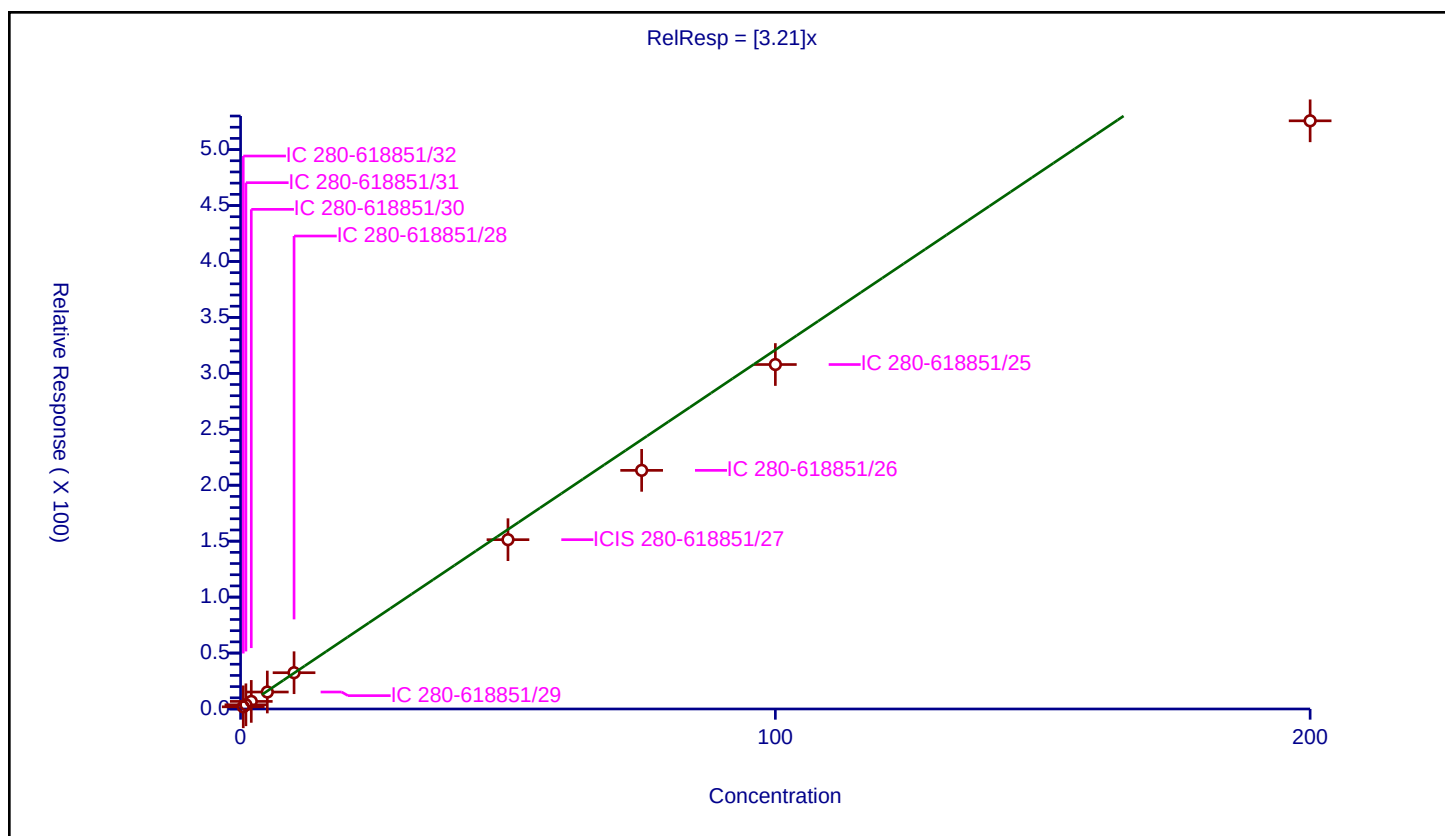
Curve Coefficients

Intercept: 0
Slope: 3.21

Error Coefficients

Standard Error: 2870000
Relative Standard Error: 12.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	1.939754	50.0	582548.0	3.879509	Y
2	IC 280-618851/31	1.0	3.757473	50.0	586804.0	3.757473	Y
3	IC 280-618851/30	2.0	6.792568	50.0	545346.0	3.396284	Y
4	IC 280-618851/29	5.0	15.168488	50.0	607315.0	3.033698	Y
5	IC 280-618851/28	10.0	32.423114	50.0	608040.0	3.242311	Y
6	ICIS 280-618851/27	50.0	151.341987	50.0	567591.0	3.02684	Y
7	IC 280-618851/26	75.0	213.287996	50.0	581570.0	2.84384	Y
8	IC 280-618851/25	100.0	307.894585	50.0	554038.0	3.078946	Y
9	IC 280-618851/24	200.0	525.708319	50.0	637389.0	2.628542	Y



Calibration

/ 1,2,3-Trichlorobenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

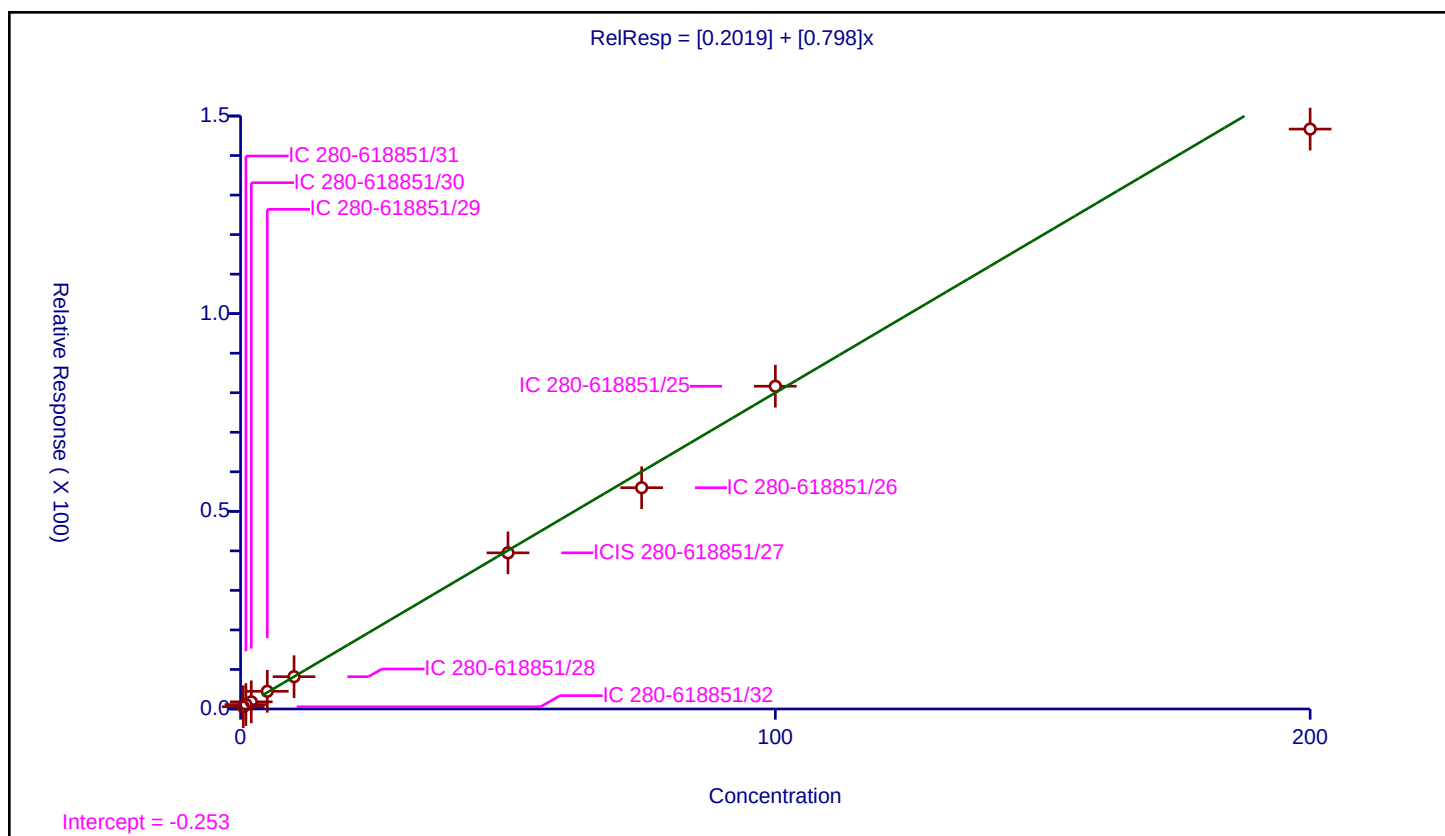
Curve Coefficients

Intercept: 0.2019
 Slope: 0.798

Error Coefficients

Standard Error: 841000
 Relative Standard Error: 8.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-618851/32	0.5	0.56785	50.0	582548.0	1.1357	Y
2	IC 280-618851/31	1.0	1.118005	50.0	586804.0	1.118005	Y
3	IC 280-618851/30	2.0	1.812977	50.0	545346.0	0.906489	Y
4	IC 280-618851/29	5.0	4.476343	50.0	607315.0	0.895269	Y
5	IC 280-618851/28	10.0	8.169528	50.0	608040.0	0.816953	Y
6	ICIS 280-618851/27	50.0	39.498864	50.0	567591.0	0.789977	Y
7	IC 280-618851/26	75.0	55.973829	50.0	581570.0	0.746318	Y
8	IC 280-618851/25	100.0	81.642866	50.0	554038.0	0.816429	Y
9	IC 280-618851/24	200.0	146.696366	50.0	637389.0	0.733482	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 619014
SDG No.: _____
Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/10/2023 23:01 Calibration End Date: 07/11/2023 01:38 Calibration ID: 82420

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-619014/31	MS13_003265.D
Level 2	IC 280-619014/30	MS13_003264.D
Level 3	IC 280-619014/29	MS13_003263.D
Level 4	IC 280-619014/28	MS13_003262.D
Level 5	IC 280-619014/27	MS13_003261.D
Level 6	IC 280-619014/26	MS13_003260.D
Level 7	IC 280-619014/25	MS13_003259.D
Level 8	IC 280-619014/24	MS13_003258.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Ethanol	0.0056 0.0042	0.0050 0.0042	0.0043 0.0050	0.0048	0.0041	Ave		0.004 6				11.2		15.0			
Isopropyl alcohol	0.0195 0.0300	0.0359 0.0311	0.0315 0.0307	0.0247	0.0256	Lin1	-0.06 4	0.030 1							0.9960		0.9900
Acetonitrile	0.0234 0.0555	0.0488 0.0569	0.0489 0.0502	0.0562	0.0516	Lin2	-0.28 3	0.055 5							0.9930		0.9900
Isopropyl ether	0.2209 0.2304	0.2097 0.2288	0.2196 0.2373	0.2015	0.2274	Ave		0.221 9				5.3		15.0			
Chloroprene	0.4373 0.4721	0.4552 0.4720	0.4316 0.4785	0.4052	0.4410	Ave		0.449 1				5.6		15.0			
Tert-butyl ethyl ether	0.8900 0.9383	0.8750 0.9147	0.8772 0.9234	0.8747	0.9300	Ave		0.902 9				2.9		15.0			
Ethyl acetate	0.4618 0.4173	0.4336 0.4237	0.4164 0.3903	0.4560	0.3977	Ave		0.424 6				6.0		15.0			
Propionitrile	0.0742 0.0757	0.0770 0.0773	0.0742 0.0675	0.0899	0.0717	Ave		0.075 9				8.5		15.0			
Methacrylonitrile	0.2332 0.2301	0.2336 0.2287	0.2313 0.2048	0.2423	0.2249	Ave		0.228 6				4.7		15.0			
n-Butanol	0.0161 0.0151	0.0161 0.0157	0.0141 0.0154	0.0134	0.0134	Ave		0.014 9				7.6		15.0			
Tert-amyl methyl ether	0.7263 0.7871	0.7673 0.7867	0.7643 0.7721	0.7609	0.7975	Ave		0.770 3				2.8		15.0			
Methyl methacrylate	0.0961 0.1005	0.0794 0.1032	0.0968 0.0994	0.0981	0.0967	Ave		0.096 3				7.5		15.0			
2-Nitropropane	0.0544 0.0640	0.0563 0.0694	0.0567 0.0656	0.0600	0.0595	Ave		0.060 7				8.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 619014
SDG No.: _____
Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/10/2023 23:01 Calibration End Date: 07/11/2023 01:38 Calibration ID: 82420

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
cis-1,4-Dichloro-2-butene	++++ 0.1505	0.0803 0.1717	0.0939 ++++	0.1313	0.1343	Lin1	-0.45 6	0.159 0							0.9900		0.9900
1,2,3-Trimethylbenzene	2.5370 2.4807	2.5580 2.5302	2.4207 2.7032	2.4962	2.5952	Ave		2.540 1				3.3		15.0			
1,3,5-Trichlorobenzene	++++ 0.8923	0.9635 0.9024	0.9452 0.9789	0.9402	0.9411	Ave		0.937 7				3.3		15.0			
Dibromofluoromethane (Surr)	0.2555 0.2562	0.2612 0.2590	0.2565 0.2536	0.2594	0.2545	Ave		0.255 5				2.0		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3173 0.3234	0.3152 0.3202	0.3177 0.3229	0.3202	0.3199	Ave		0.317 6				2.1		15.0			
Toluene-d8 (Surr)	4.1784 4.1916	4.2967 4.1430	4.1748 4.1931	4.2890	4.2723	Ave		4.209 8				1.4		15.0			
4-Bromofluorobenzene (Surr)	0.9325 0.9337	0.9478 0.9396	0.9205 0.9575	0.9608	0.9306	Ave		0.942 0				1.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 619014

SDG No.: _____

Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/10/2023 23:01 Calibration End Date: 07/11/2023 01:38 Calibration ID: 82420

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-619014/31	MS13_003265.D
Level 2	IC 280-619014/30	MS13_003264.D
Level 3	IC 280-619014/29	MS13_003263.D
Level 4	IC 280-619014/28	MS13_003262.D
Level 5	IC 280-619014/27	MS13_003261.D
Level 6	IC 280-619014/26	MS13_003260.D
Level 7	IC 280-619014/25	MS13_003259.D
Level 8	IC 280-619014/24	MS13_003258.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethanol	FB	Ave	9120 506214	16963 719946	35512 1621584	79831	340739	60.0 4500	120 6000	300 12000	600	3000
Isopropyl alcohol	FB	Lin1	5297 597412	20467 883012	43077 1676695	68233	356805	10.0 750	20.0 1000	50.0 2000	100	500
Acetonitrile	FB	Lin2	6357 1105209	27839 1616104	66919 2737451	155099	718522	10.0 750	20.0 1000	50.0 2000	100	500
Isopropyl ether	FB	Ave	6008 458809	11959 649755	30052 1293918	55600	316746	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Chloroprene	FB	Ave	11894 940212	25965 1340428	59081 2609247	111778	614257	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Tert-butyl ethyl ether	FB	Ave	24206 1868689	49907 2597374	120069 5034769	241325	1295321	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Ethyl acetate	FB	Ave	25120 1662317	49468 2406319	113986 4255970	251586	1107714	2.00 150	4.00 200	10.0 400	20.0	100
Propionitrile	FB	Ave	20185 1507206	43911 2194503	101510 3680769	248146	999182	10.0 750	20.0 1000	50.0 2000	100	500
Methacrylonitrile	FB	Ave	63421 4583503	133267 6495878	316559 11168429	668389	3132147	10.0 750	20.0 1000	50.0 2000	100	500
n-Butanol	FB	Ave	10957 750341	23003 1118134	48327 2098751	92728	466890	25.0 1875	50.0 2500	125 5000	250	1250
Tert-amyl methyl ether	FB	Ave	19755 1567638	43764 2233886	104614 4209963	209926	1110649	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Methyl methacrylate	FB	Ave	5230 400147	9063 586234	26498 1084105	54131	269344	2.00 150	4.00 200	10.0 400	20.0	100
2-Nitropropane	FB	Ave	2958 255002	6419 394323	15527 715120	33094	165862	2.00 150	4.00 200	10.0 400	20.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 619014

SDG No.: _____

Instrument ID: VMS_MS13 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/10/2023 23:01 Calibration End Date: 07/11/2023 01:38 Calibration ID: 82420

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
cis-1,4-Dichloro-2-butene	DCBd 4	Lin1	+++++	3575	10731	27610	148427	+++++	4.00	10.0	20.0	100
			250798	398530	+++++			150	200	+++++		
1,2,3-Trimethylbenzene	DCBd 4	Ave	29002	56955	138288	262400	1433706	1.00	2.00	5.00	10.0	50.0
			2067508	2935639	5634312			75.0	100	200		
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++	21452	53997	98840	519923	+++++	2.00	5.00	10.0	50.0
			743651	1046985	2040410			75.0	100	200		
Dibromofluoromethane (Surr)	FB	Ave	347392	372497	351088	357866	354430	50.0	50.0	50.0	50.0	50.0
			340185	367816	345663			50.0	50.0	50.0		
1,2-Dichloroethane-d4 (Surr)	FB	Ave	431439	449496	434814	441716	445497	50.0	50.0	50.0	50.0	50.0
			429392	454704	440165			50.0	50.0	50.0		
Toluene-d8 (Surr)	CBNZ d5	Ave	1459059	1482317	1474824	1445876	1446514	50.0	50.0	50.0	50.0	50.0
			1386294	1517887	1426396			50.0	50.0	50.0		
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	533013	527604	525847	504994	514135	50.0	50.0	50.0	50.0	50.0
			518772	545096	498934			50.0	50.0	50.0		

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003258.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 10-Jul-2023 23:01:51 ALS Bottle#: 0 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123383-024
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub8
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 11-Jul-2023 13:28:39 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1672

First Level Reviewer: J6NB

Date: 11-Jul-2023 07:47:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1363173	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	340180	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.948	0.010	95	521086	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	345663	50.0	49.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	95	440165	50.0	50.8	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1426396	50.0	49.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	498934	50.0	50.8	
16 Ethanol	45	2.714	2.704	0.010	99	1621584	12000	12795	
23 Isopropyl alcohol	45	3.108	3.108	0.000	100	1676695	2000.0	2044.9	
26 Acetonitrile	41	3.233	3.232	0.000	99	2737451	2000.0	1815.5	
36 Isopropyl ether	87	3.896	3.896	0.000	96	1293918	200.0	213.8	
38 2-Chloro-1,3-butadiene	53	3.948	3.947	0.001	91	2609247	200.0	213.1	
39 Tert-butyl ethyl ether	59	4.165	4.165	0.000	98	5034769	200.0	204.5	
41 Ethyl acetate	43	4.300	4.300	0.000	99	4255970	400.0	367.7	
44 Propionitrile	54	4.341	4.341	0.000	99	3680769	2000.0	1777.9	
46 Methacrylonitrile	41	4.455	4.455	0.000	91	11168429	2000.0	1791.8	
58 Tert-amyl methyl ether	73	5.036	5.036	0.000	95	4209963	200.0	200.5	
55 n-Butanol	56	5.036	5.036	0.000	49	2098751	5000.0	5156.2	
63 Methyl methacrylate	100	5.668	5.668	0.000	95	1084105	400.0	413.0	
68 2-Nitropropane	41	6.031	6.030	0.001	97	715120	400.0	431.8	
90 cis-1,4-Dichloro-2-butene	53	8.694	8.694	0.000	92	822727	400.0	499.3	a
107 1,2,3-Trimethylbenzene	105	10.000	9.999	0.001	98	5634312	200.0	212.8	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	98	2040410	200.0	208.8	a
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MV-Supp B_00062

Amount Added: 200.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003258.D

Injection Date: 10-Jul-2023 23:01:51

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

24

Purge Vol: 5.000 mL

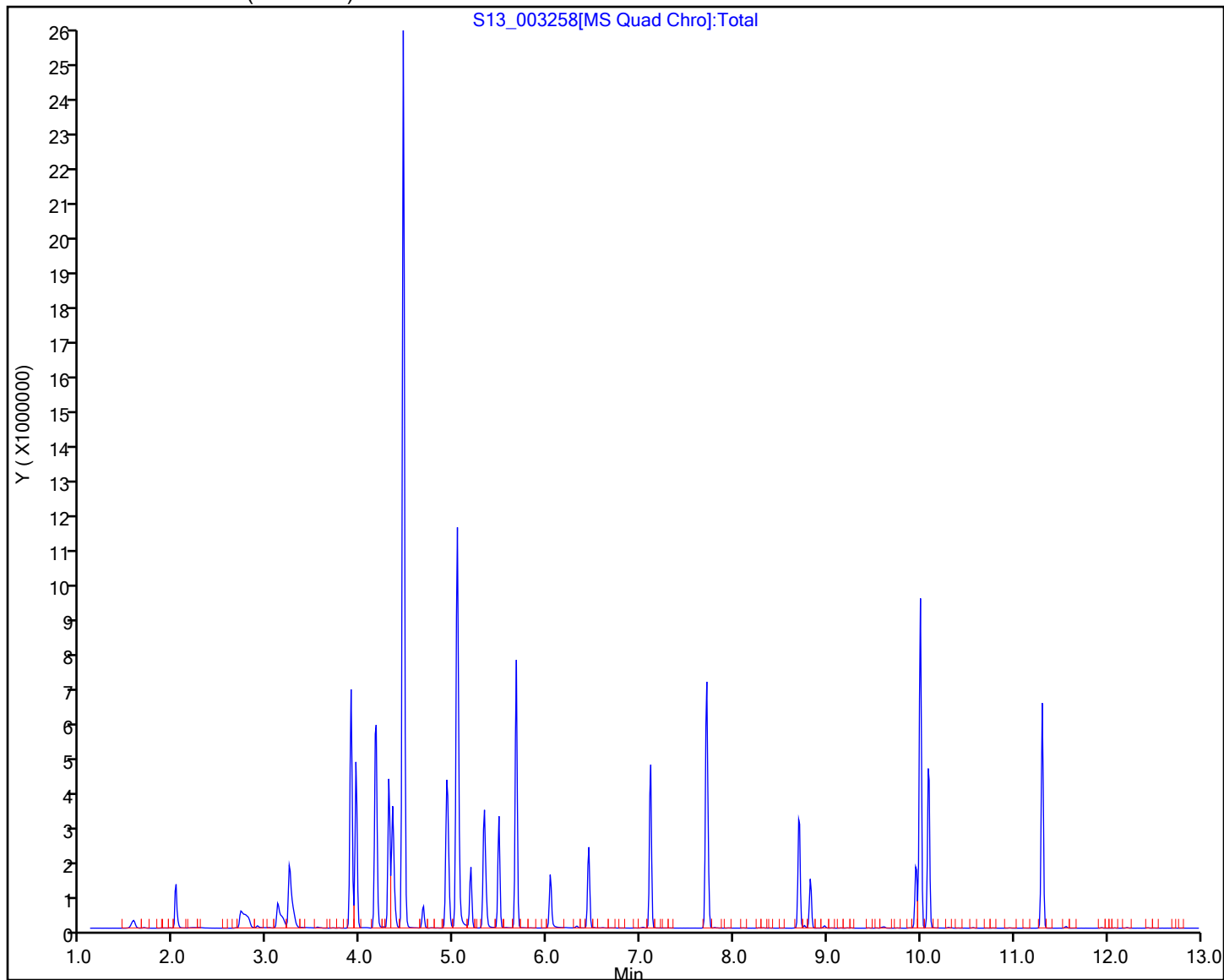
Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

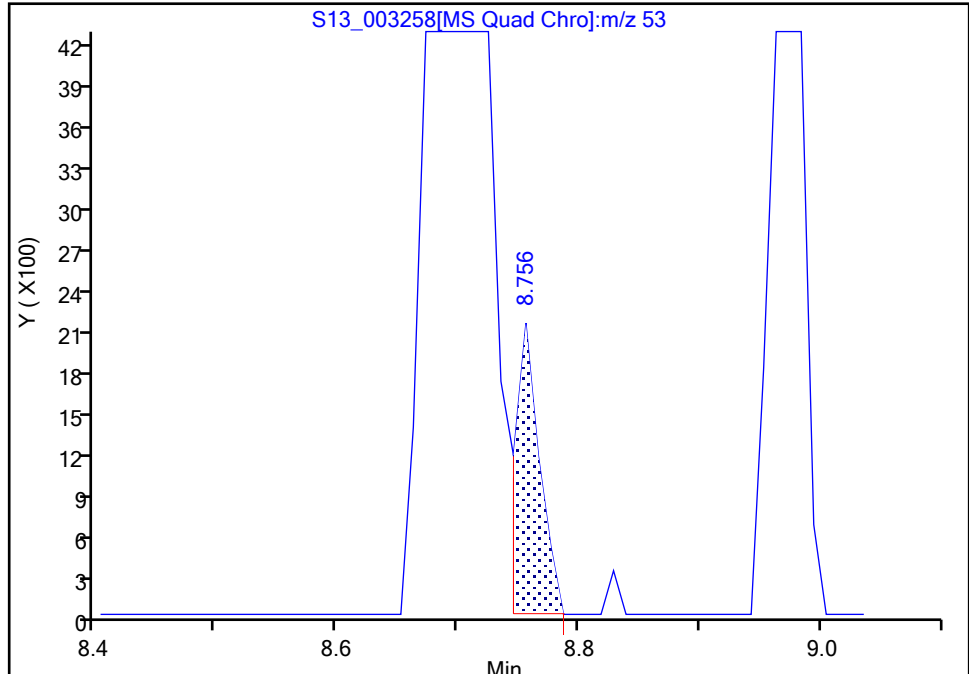
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003258.D
Injection Date: 10-Jul-2023 23:01:51 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector MS Quad

90 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

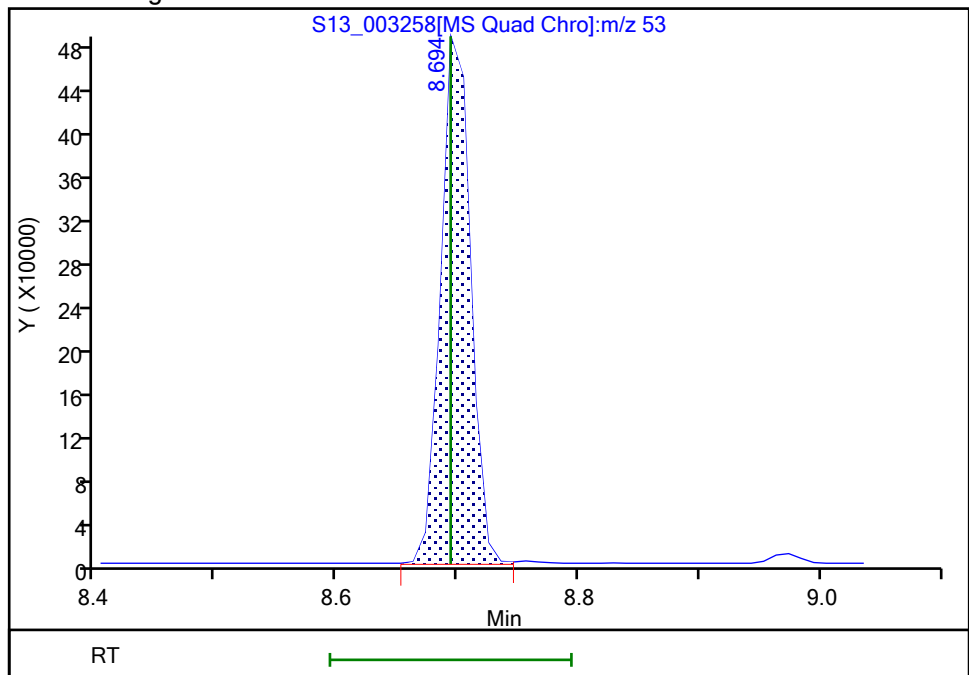
RT: 8.76
Area: 3047
Amount: 3.502809
Amount Units: ug/l

Processing Integration Results



RT: 8.69
Area: 822727
Amount: 499.2585
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:38:51 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver

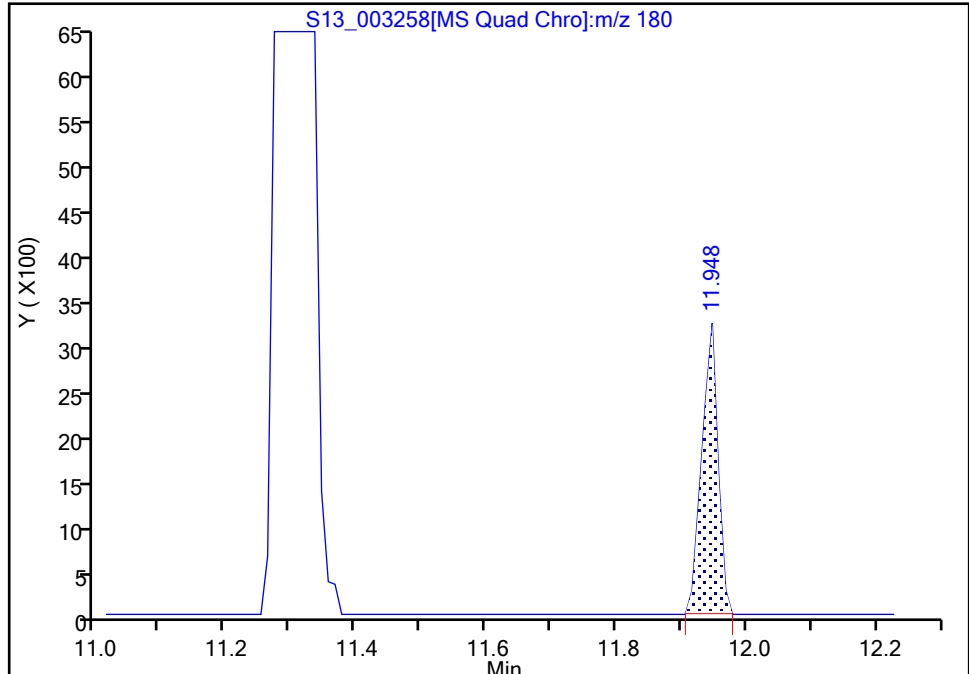
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003258.D
Injection Date: 10-Jul-2023 23:01:51 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

111 1,3,5-Trichlorobenzene, CAS: 108-70-3

Signal: 1

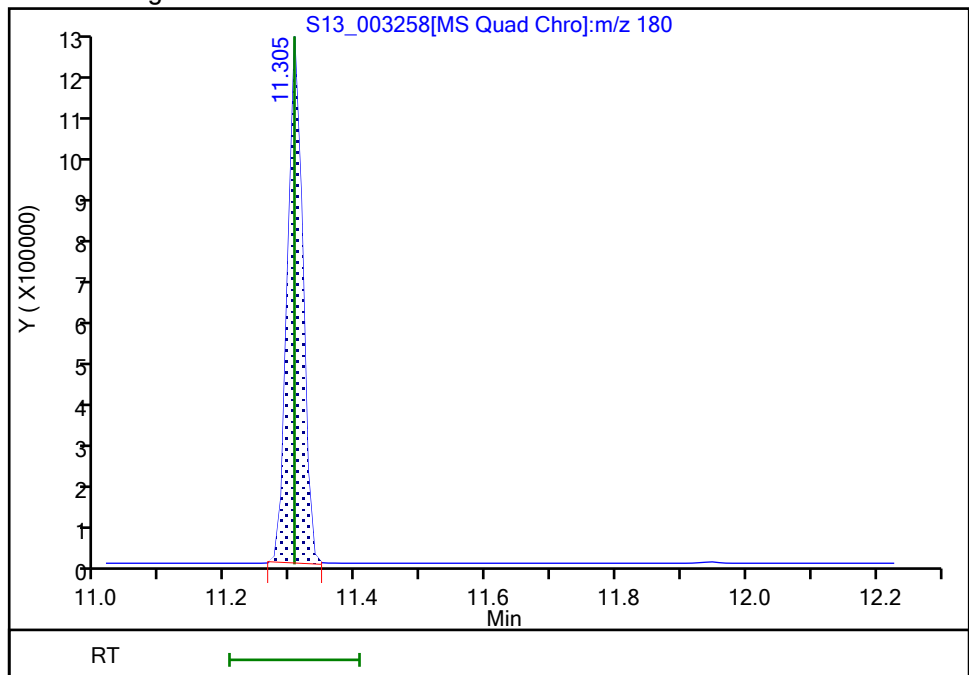
RT: 11.95
Area: 5558
Amount: 0.668143
Amount Units: ug/l

Processing Integration Results



RT: 11.31
Area: 2040410
Amount: 208.8008
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:43:51 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003259.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 10-Jul-2023 23:24:10 ALS Bottle#: 0 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123383-025
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub8
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 11-Jul-2023 13:28:45 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1672

First Level Reviewer: RWB2

Date: 11-Jul-2023 09:39:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1419872	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	366371	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.948	0.010	95	580109	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	367816	50.0	50.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	94	454704	50.0	50.4	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1517887	50.0	49.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	86	545096	50.0	49.9	
16 Ethanol	45	2.704	2.704	0.000	99	719946	6000.0	5454.0	
23 Isopropyl alcohol	45	3.108	3.108	0.000	99	883012	1000.0	1035.0	
26 Acetonitrile	41	3.232	3.232	0.000	98	1616104	1000.0	1031.2	
36 Isopropyl ether	87	3.896	3.896	0.000	96	649755	100.0	103.1	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	91	1340428	100.0	105.1	
39 Tert-butyl ethyl ether	59	4.165	4.165	0.000	99	2597374	100.0	101.3	
41 Ethyl acetate	43	4.300	4.300	0.000	99	2406319	200.0	199.6	
44 Propionitrile	54	4.341	4.341	0.000	99	2194503	1000.0	1017.6	
46 Methacrylonitrile	41	4.455	4.455	0.000	91	6495878	1000.0	1000.6	
58 Tert-amyl methyl ether	73	5.035	5.036	-0.001	81	2233886	100.0	102.1	
55 n-Butanol	56	5.035	5.036	-0.001	48	1118134	2500.0	2637.3	
63 Methyl methacrylate	100	5.668	5.668	0.000	95	586234	200.0	214.4	
68 2-Nitropropane	41	6.030	6.030	0.000	98	394323	200.0	228.6	
90 cis-1,4-Dichloro-2-butene	53	8.694	8.694	0.000	93	398530	200.0	218.9	a
107 1,2,3-Trimethylbenzene	105	9.999	9.999	0.000	98	2935639	100.0	99.6	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	98	1046985	100.0	96.2	a
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MV-Supp B_00062

Amount Added: 100.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003259.D

Injection Date: 10-Jul-2023 23:24:10

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

25

Purge Vol: 5.000 mL

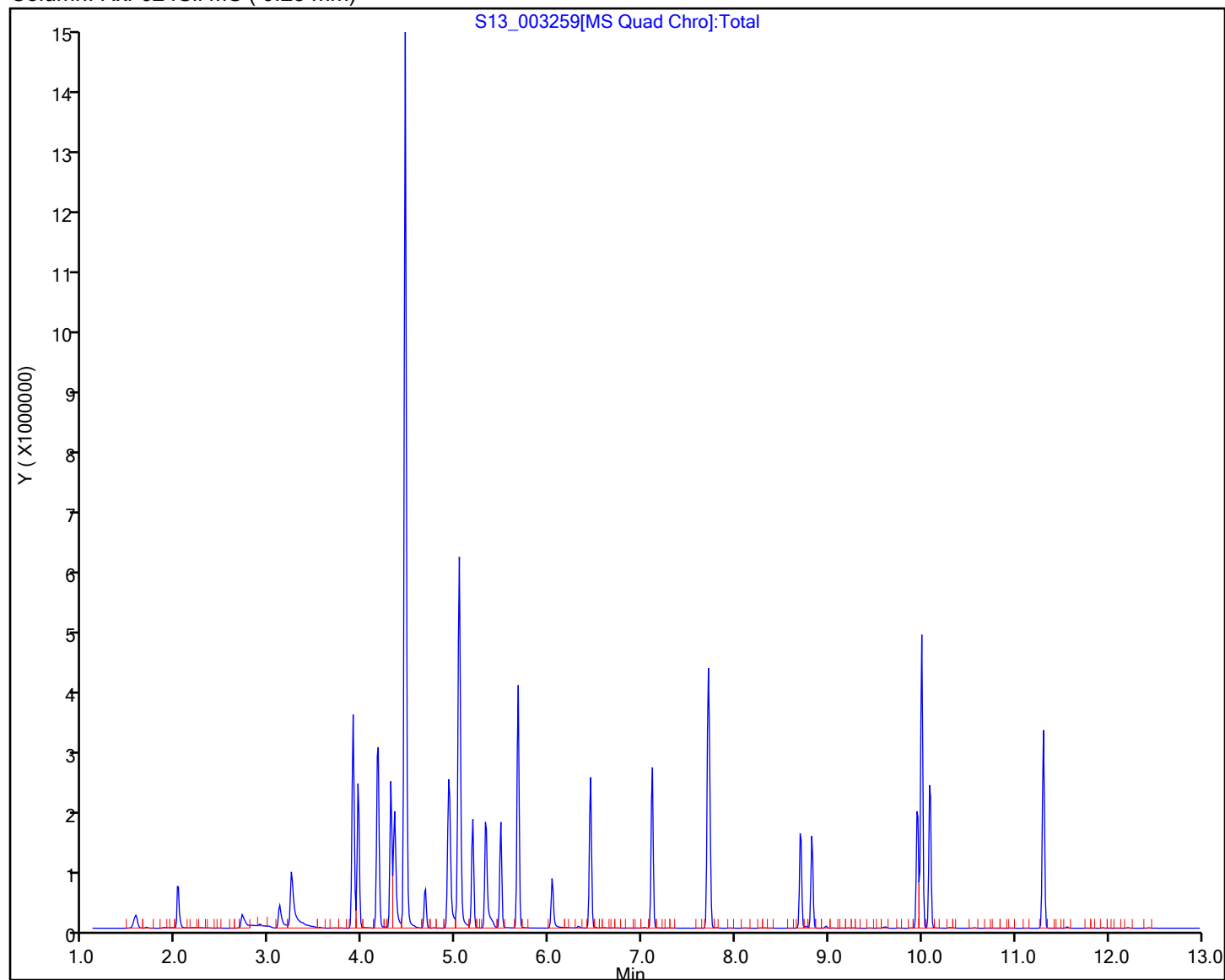
Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

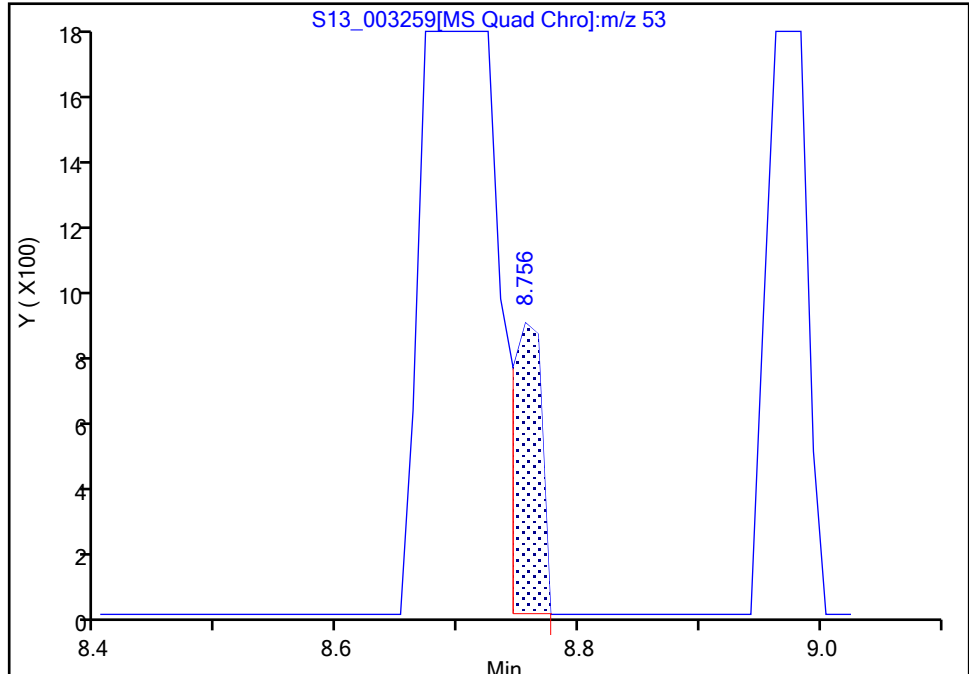
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003259.D
Injection Date: 10-Jul-2023 23:24:10 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector MS Quad

90 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

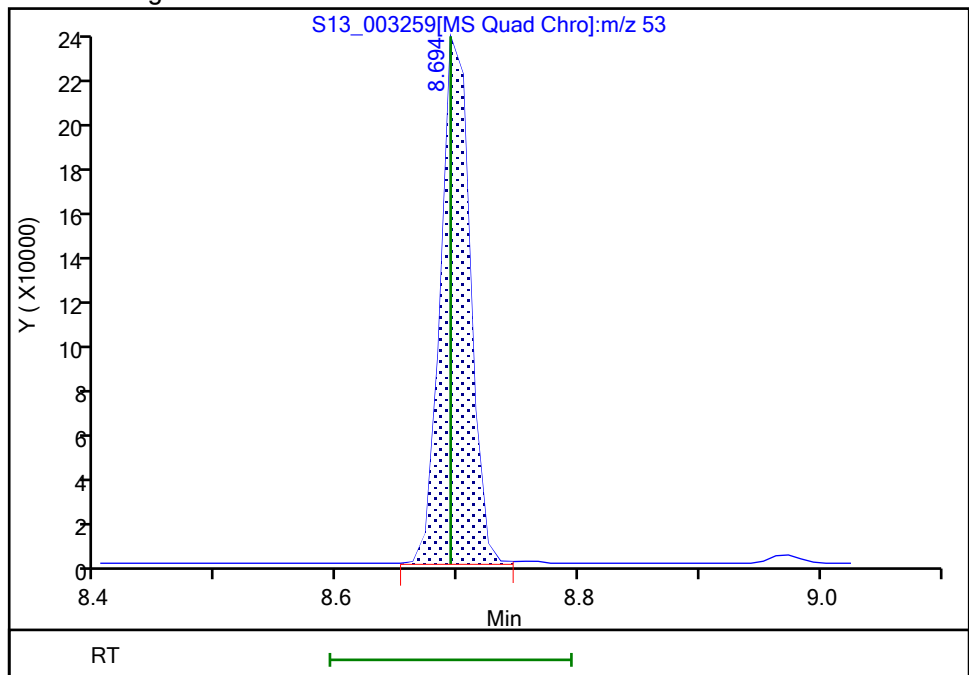
RT: 8.76
Area: 1554
Amount: 1.239662
Amount Units: ug/l

Processing Integration Results



RT: 8.69
Area: 398530
Amount: 218.8539
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:39:05 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

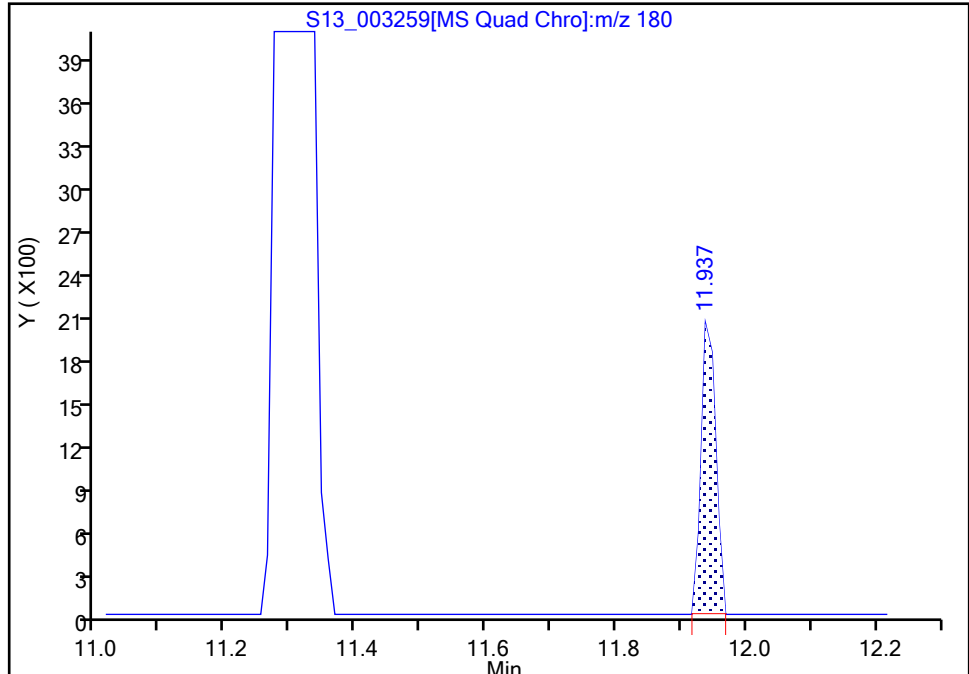
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003259.D
Injection Date: 10-Jul-2023 23:24:10 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

111 1,3,5-Trichlorobenzene, CAS: 108-70-3
Signal: 1

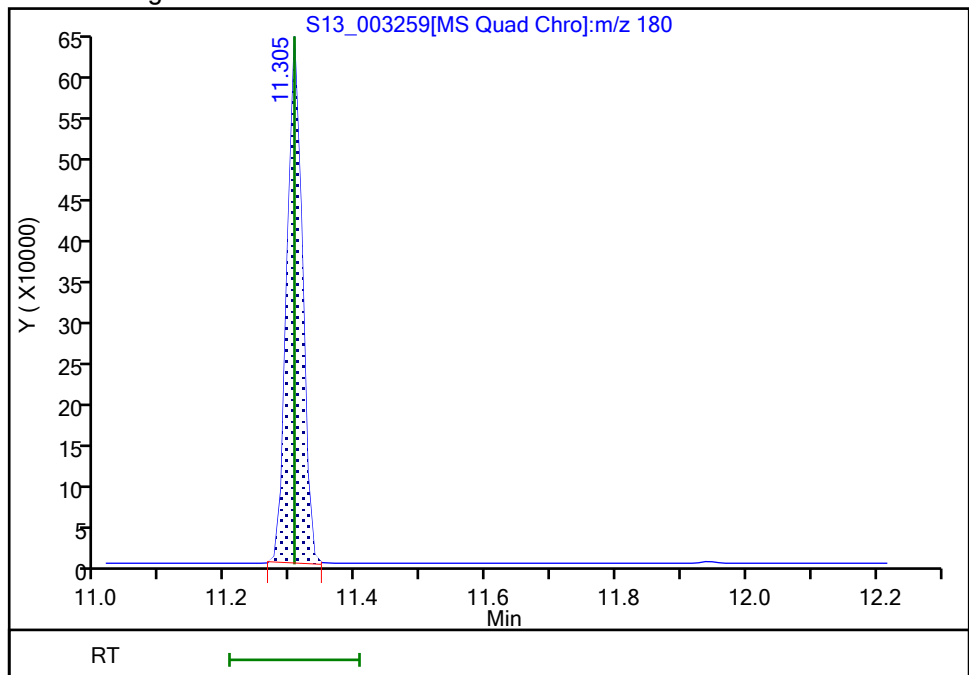
RT: 11.94
Area: 3149
Amount: 0.405297
Amount Units: ug/l

Processing Integration Results



RT: 11.31
Area: 1046985
Amount: 96.239878
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:43:39 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003260.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 10-Jul-2023 23:46:28 ALS Bottle#: 0 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123383-026
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub8
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 11-Jul-2023 13:28:48 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1672

First Level Reviewer: RWB2

Date: 11-Jul-2023 09:37:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1327776	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	330730	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.948	0.010	96	555631	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.662	4.673	-0.011	93	340185	50.0	50.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	95	429392	50.0	50.9	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1386294	50.0	49.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	518772	50.0	49.6	
16 Ethanol	45	2.704	2.704	0.000	99	506214	4500.0	4100.8	
23 Isopropyl alcohol	45	3.098	3.108	-0.010	100	597412	750.0	749.4	
26 Acetonitrile	41	3.232	3.232	0.000	100	1105209	750.0	755.5	
36 Isopropyl ether	87	3.896	3.896	0.000	97	458809	75.0	77.8	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	91	940212	75.0	78.8	
39 Tert-butyl ethyl ether	59	4.155	4.165	-0.010	99	1868689	75.0	77.9	
41 Ethyl acetate	43	4.300	4.300	0.000	99	1662317	150.0	147.4	
44 Propionitrile	54	4.341	4.341	0.000	99	1507206	750.0	747.4	
46 Methacrylonitrile	41	4.455	4.455	0.000	91	4583503	750.0	755.0	
58 Tert-amyl methyl ether	73	5.036	5.036	0.000	80	1567638	75.0	76.6	
55 n-Butanol	56	5.036	5.036	0.000	48	750341	1875.0	1892.6	
63 Methyl methacrylate	100	5.668	5.668	0.000	95	400147	150.0	156.5	
68 2-Nitropropane	41	6.030	6.030	0.000	98	255002	150.0	158.1	
90 cis-1,4-Dichloro-2-butene	53	8.694	8.694	0.000	94	250798	150.0	144.8	a
107 1,2,3-Trimethylbenzene	105	9.999	9.999	0.000	98	2067508	75.0	73.2	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	97	743651	75.0	71.4	a
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MV-Supp B_00062

Amount Added: 75.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003260.D

Injection Date: 10-Jul-2023 23:46:28

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

26

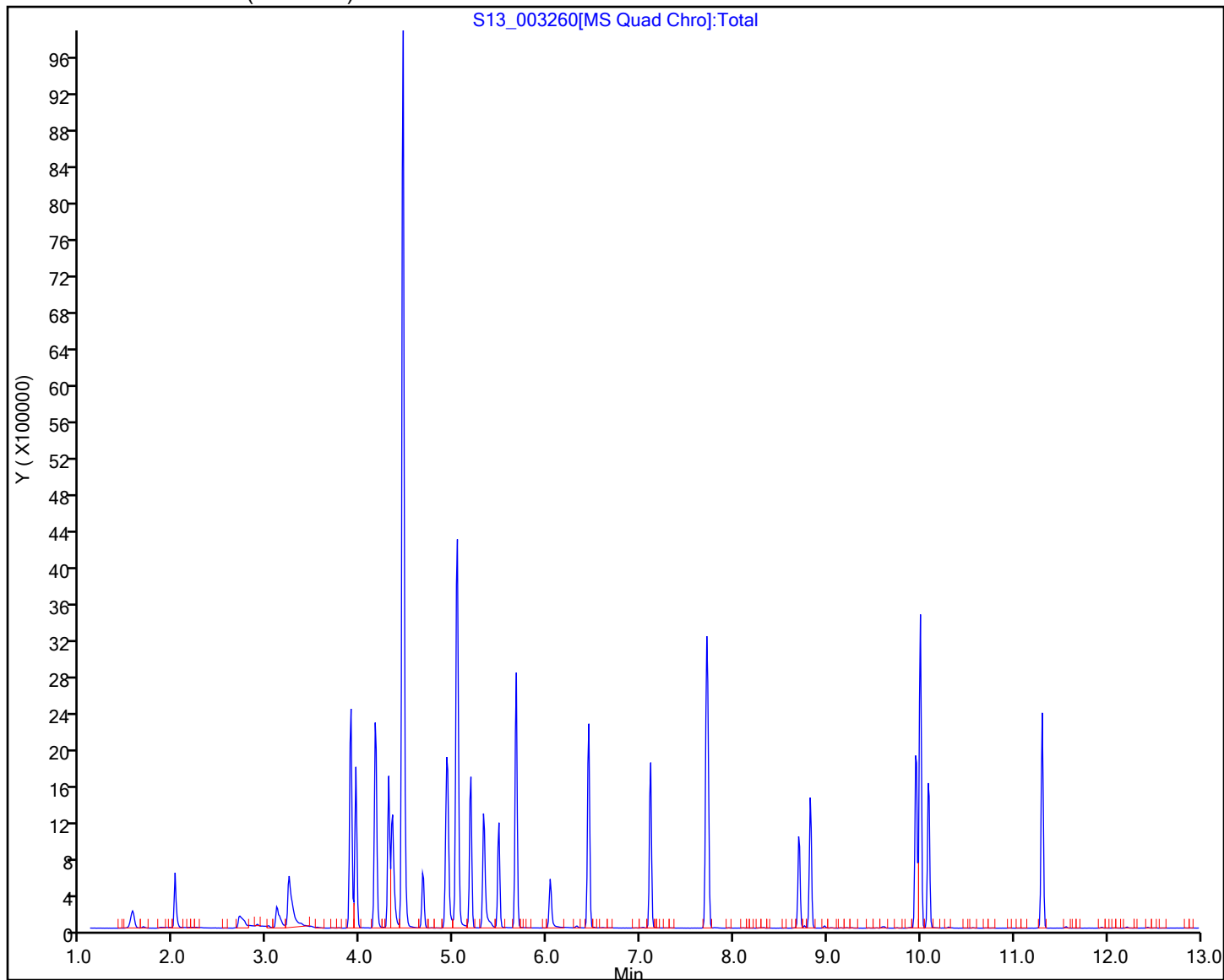
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

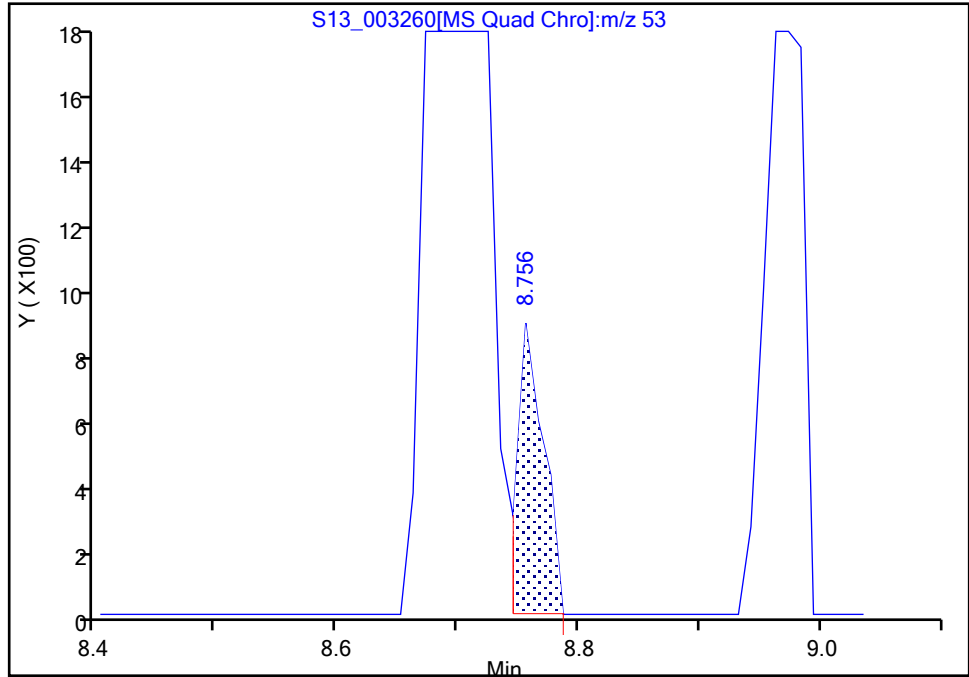
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003260.D
Injection Date: 10-Jul-2023 23:46:28 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector MS Quad

90 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

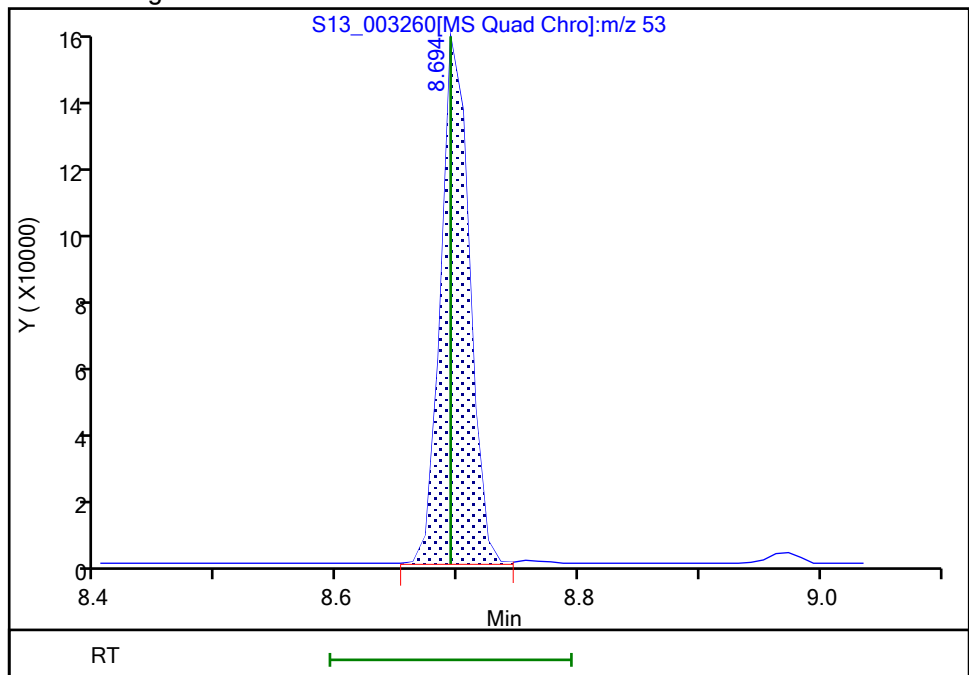
RT: 8.76
Area: 1329
Amount: 1.846731
Amount Units: ug/l

Processing Integration Results



RT: 8.69
Area: 250798
Amount: 144.7765
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:37:46 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

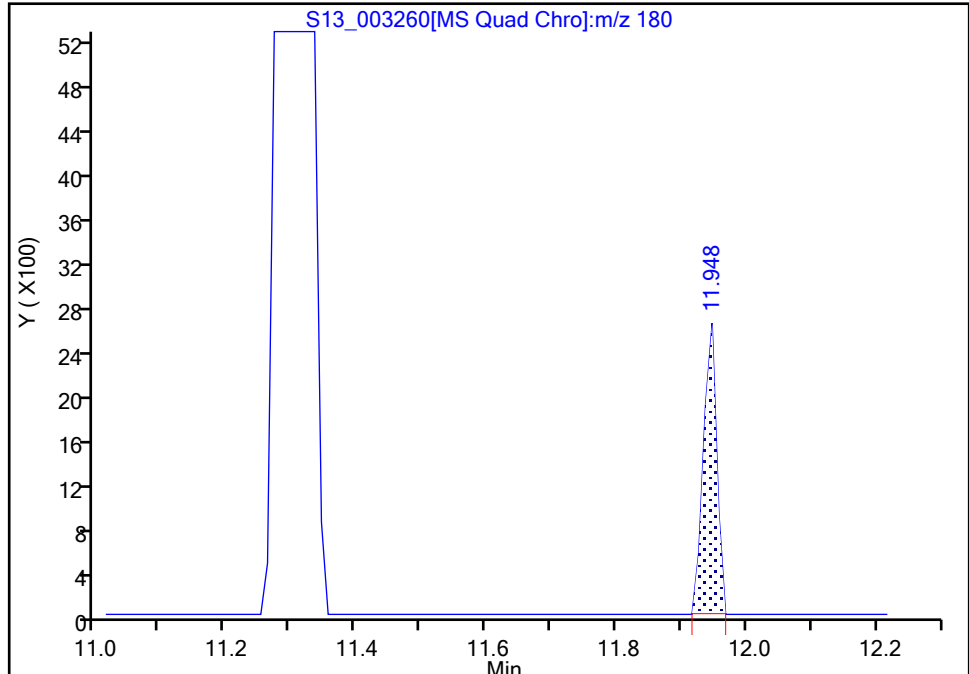
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003260.D
Injection Date: 10-Jul-2023 23:46:28 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

111 1,3,5-Trichlorobenzene, CAS: 108-70-3
Signal: 1

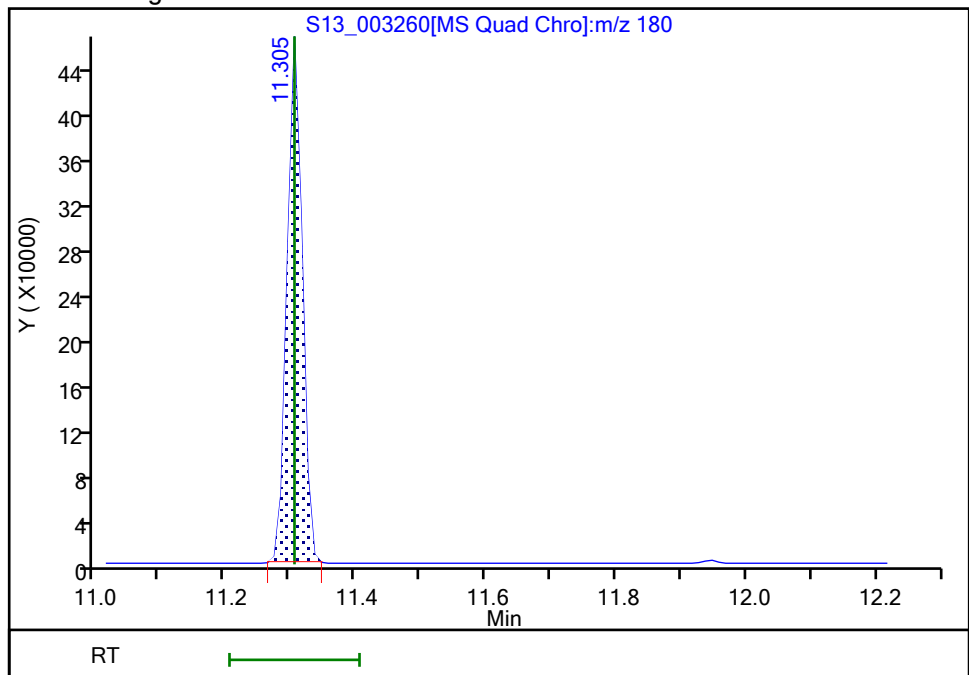
RT: 11.95
Area: 3732
Amount: 0.618659
Amount Units: ug/l

Processing Integration Results



RT: 11.31
Area: 743651
Amount: 71.368555
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:43:29 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003261.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Jul-2023 00:08:45 ALS Bottle#: 0 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123383-027
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub8
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 11-Jul-2023 13:28:50 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1672

First Level Reviewer: RWB2

Date: 11-Jul-2023 09:37:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1392745	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	338580	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	95	552455	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	354430	50.0	49.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	445497	50.0	50.4	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1446514	50.0	50.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	514135	50.0	49.4	
16 Ethanol	45	2.704	2.704	0.000	98	340739	3000.0	2631.6	
23 Isopropyl alcohol	45	3.108	3.108	0.000	100	356805	500.0	427.6	
26 Acetonitrile	41	3.232	3.232	0.000	99	718522	500.0	470.2	
36 Isopropyl ether	87	3.896	3.896	0.000	96	316746	50.0	51.2	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	91	614257	50.0	49.1	
39 Tert-butyl ethyl ether	59	4.165	4.165	0.000	99	1295321	50.0	51.5	
41 Ethyl acetate	43	4.300	4.300	0.000	99	1107714	100.0	93.7	
44 Propionitrile	54	4.341	4.341	0.000	99	999182	500.0	472.4	
46 Methacrylonitrile	41	4.455	4.455	0.000	91	3132147	500.0	491.8	
58 Tert-amyl methyl ether	73	5.036	5.036	0.000	83	1110649	50.0	51.8	
55 n-Butanol	56	5.036	5.036	0.000	48	466890	1250.0	1122.7	
63 Methyl methacrylate	100	5.668	5.668	0.000	95	269344	100.0	100.4	
68 2-Nitropropane	41	6.030	6.030	0.000	98	165862	100.0	98.0	
90 cis-1,4-Dichloro-2-butene	53	8.694	8.694	0.000	94	148427	100.0	87.3	a
107 1,2,3-Trimethylbenzene	105	9.999	9.999	0.000	98	1433706	50.0	51.1	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	97	519923	50.0	50.2	a
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

a - User Assigned ID

Reagents:

MV-Supp B_00062

Amount Added: 50.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003261.D

Injection Date: 11-Jul-2023 00:08:45

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#: 0

Worklist Smp#: 27

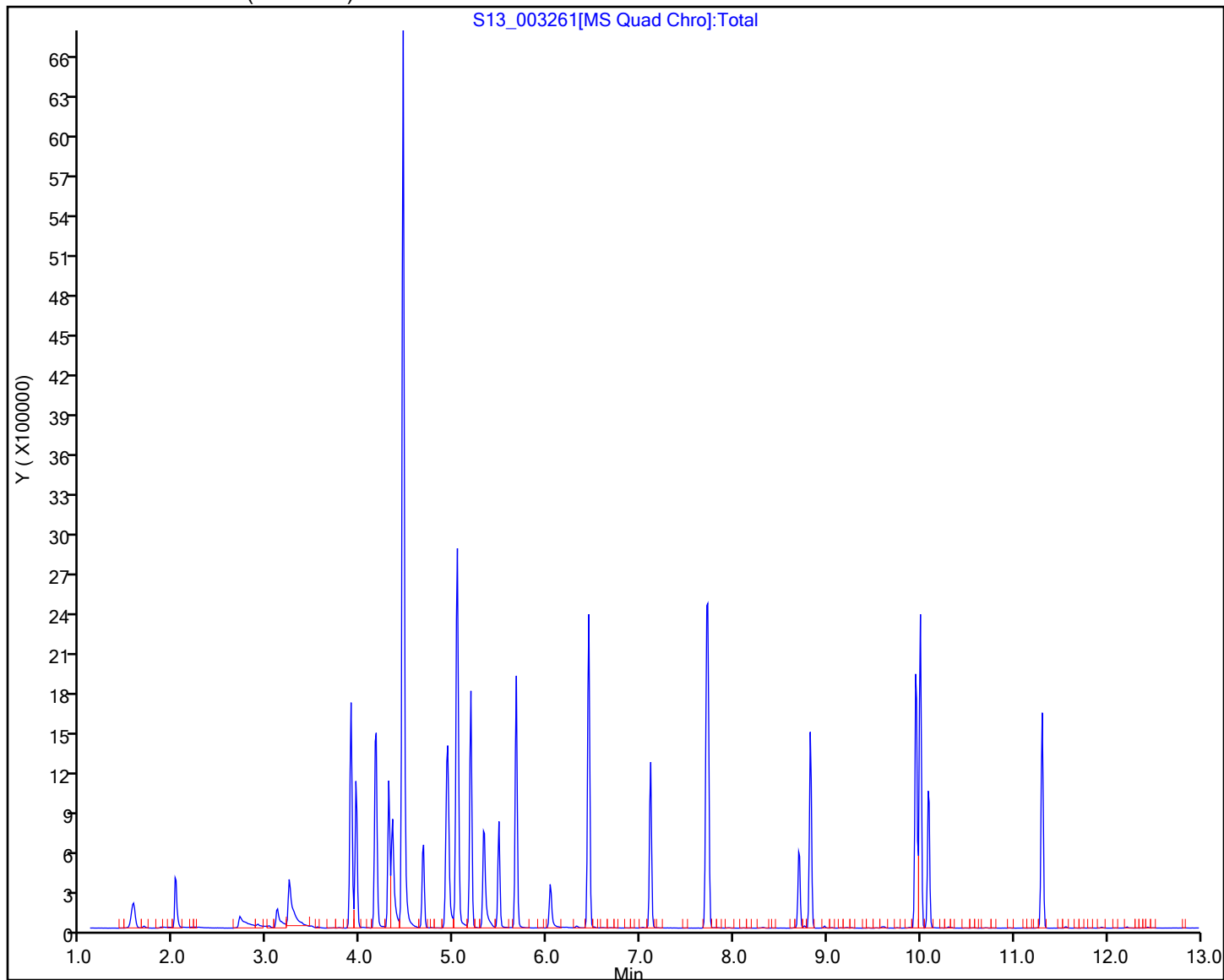
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

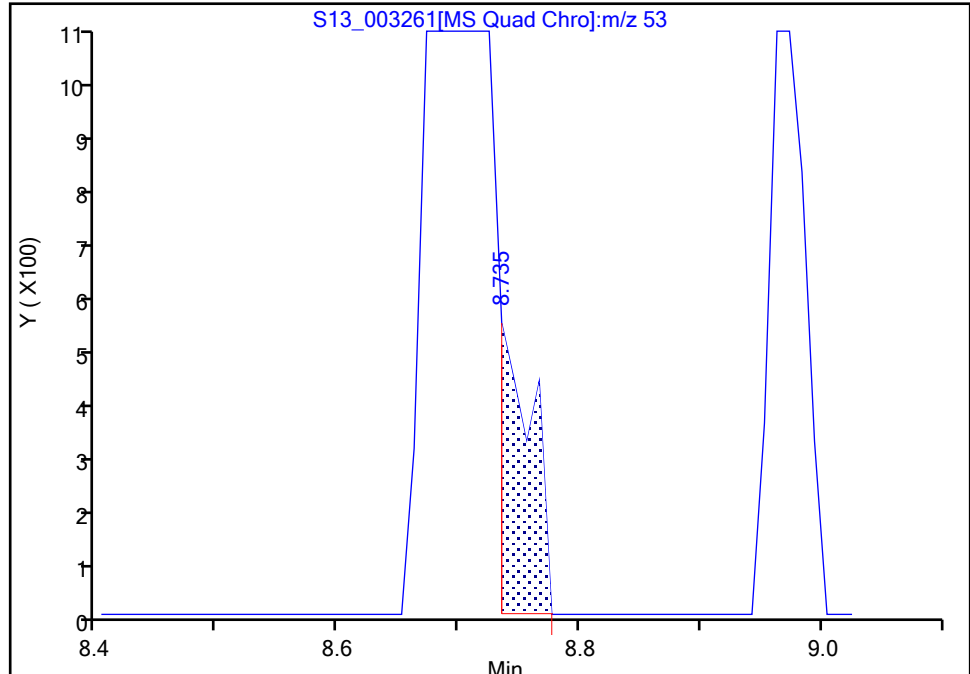
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003261.D
Injection Date: 11-Jul-2023 00:08:45 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector MS Quad

90 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

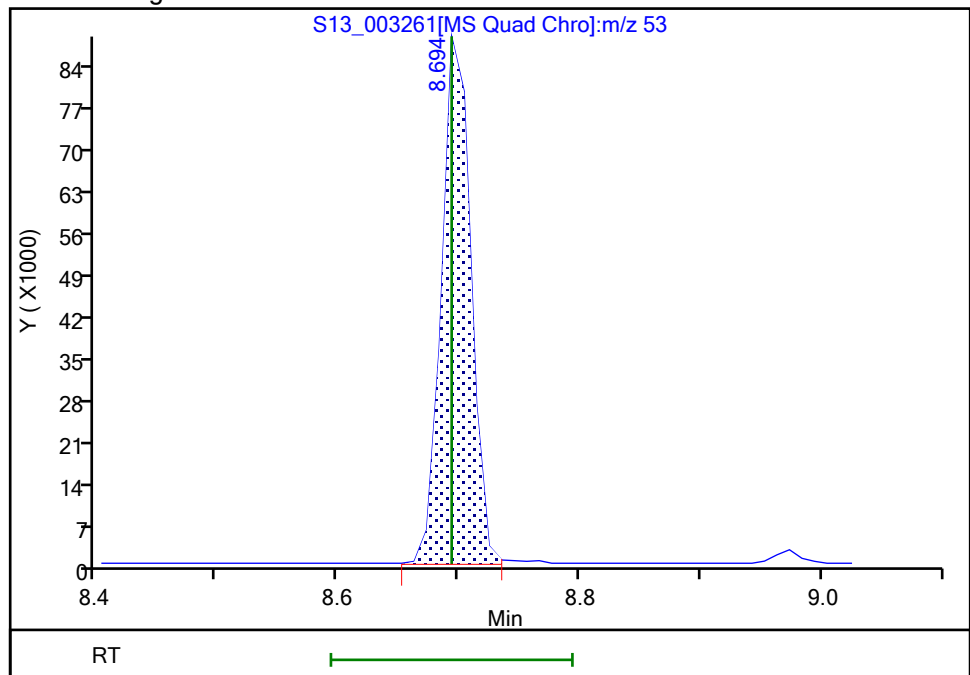
RT: 8.74
Area: 1075
Amount: 2.023162
Amount Units: ug/l

Processing Integration Results



RT: 8.69
Area: 148427
Amount: 87.333823
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:37:29 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver

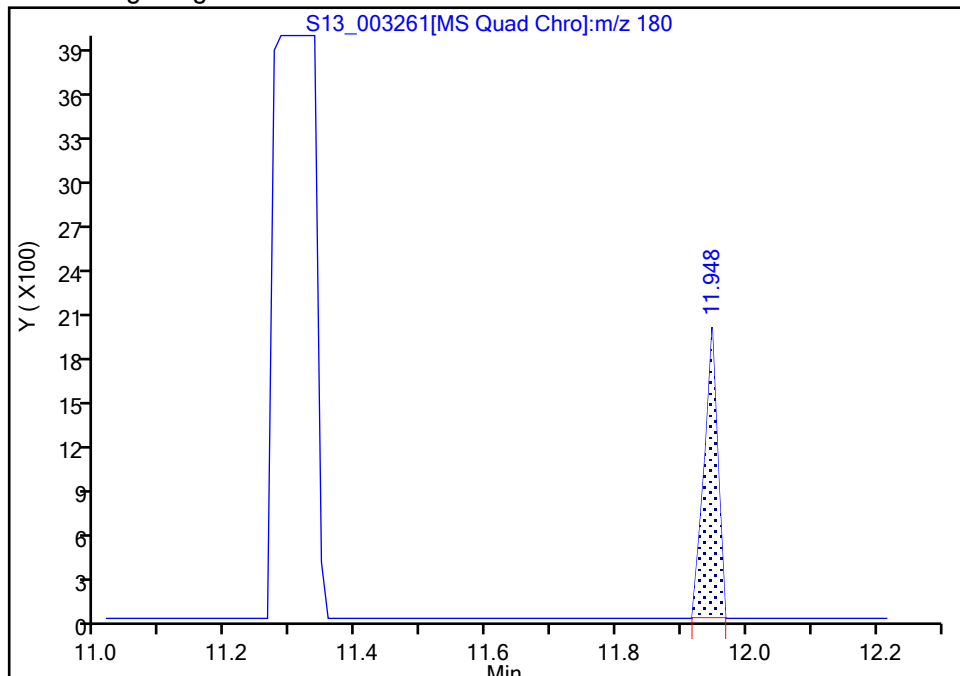
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003261.D
Injection Date: 11-Jul-2023 00:08:45 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

111 1,3,5-Trichlorobenzene, CAS: 108-70-3

Signal: 1

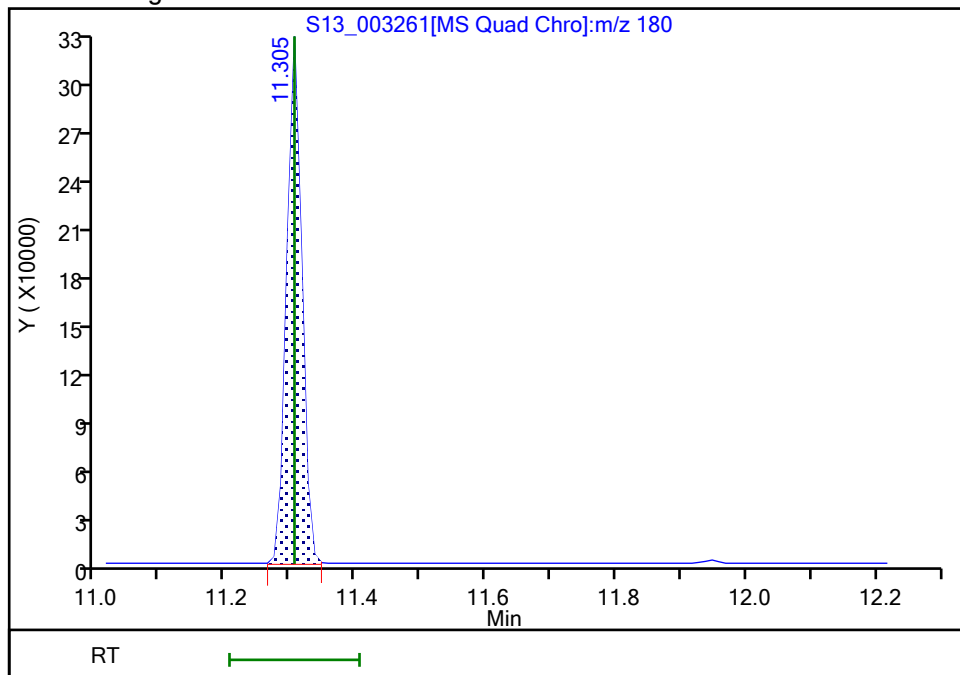
RT: 11.95
Area: 2853
Amount: 0.631114
Amount Units: ug/l

Processing Integration Results



RT: 11.31
Area: 519923
Amount: 50.184122
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:43:20 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003262.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Jul-2023 00:31:11 ALS Bottle#: 0 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123383-028
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub8
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 11-Jul-2023 13:28:53 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1672

First Level Reviewer: RWB2

Date: 11-Jul-2023 09:37:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1379438	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	337115	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	96	525608	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.662	4.673	-0.011	93	357866	50.0	50.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	441716	50.0	50.4	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	92	1445876	50.0	50.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	504994	50.0	51.0	
16 Ethanol	45	2.704	2.704	0.000	97	79831	600.0	622.5	M
23 Isopropyl alcohol	45	3.098	3.108	-0.010	99	68233	100.0	84.3	
26 Acetonitrile	41	3.232	3.232	0.000	98	155099	100.0	106.5	
36 Isopropyl ether	87	3.896	3.896	0.000	96	55600	10.0	9.08	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	92	111778	10.0	9.02	
39 Tert-butyl ethyl ether	59	4.155	4.165	-0.010	99	241325	10.0	9.69	
41 Ethyl acetate	43	4.300	4.300	0.000	99	251586	20.0	21.5	
44 Propionitrile	54	4.341	4.341	0.000	100	248146	100.0	118.4	
46 Methacrylonitrile	41	4.455	4.455	0.000	91	668389	100.0	106.0	
58 Tert-amyl methyl ether	73	5.035	5.036	-0.001	78	209926	10.0	9.88	
55 n-Butanol	56	5.035	5.036	-0.001	47	92728	250.0	225.1	
63 Methyl methacrylate	100	5.668	5.668	0.000	96	54131	20.0	20.4	
68 2-Nitropropane	41	6.030	6.030	0.000	99	33094	20.0	19.7	
90 cis-1,4-Dichloro-2-butene	53	8.694	8.694	0.000	94	27610	20.0	19.4	
107 1,2,3-Trimethylbenzene	105	9.999	9.999	0.000	97	262400	10.0	9.83	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	97	98840	10.0	10.0	a
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MV-Supp B_00062

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003262.D

Injection Date: 11-Jul-2023 00:31:11

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

28

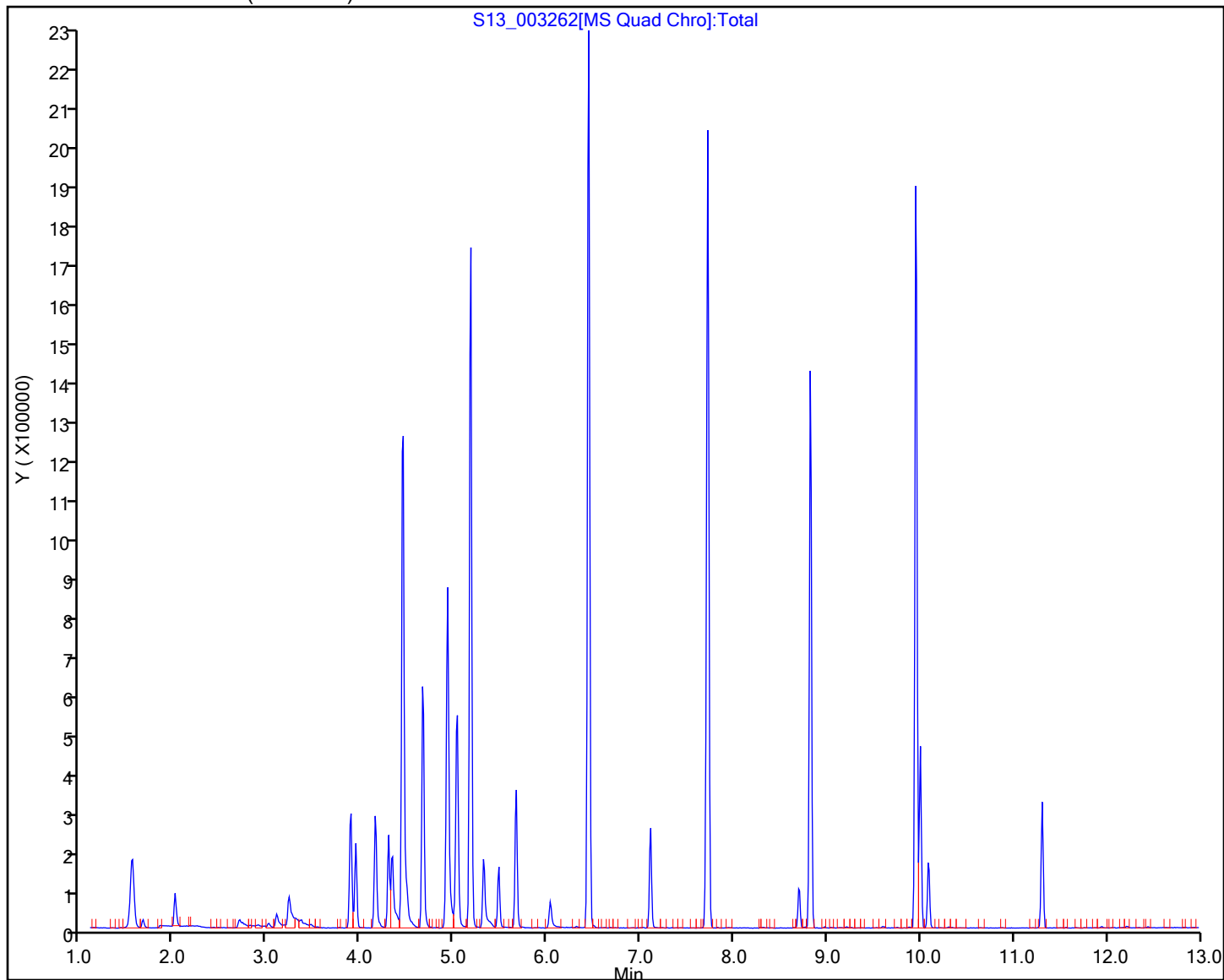
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

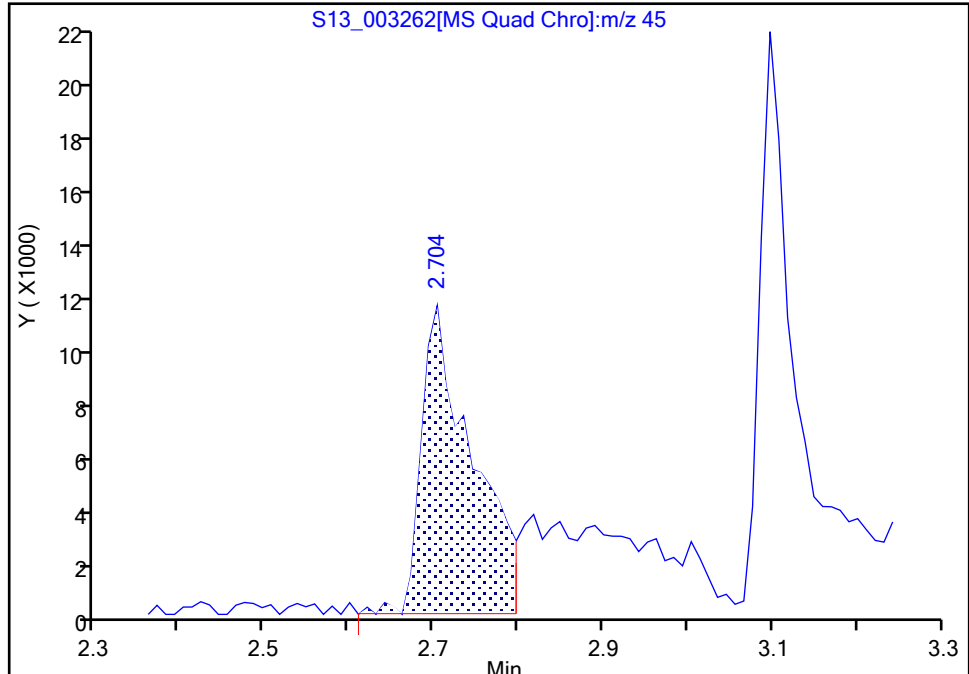
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003262.D
Injection Date: 11-Jul-2023 00:31:11 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

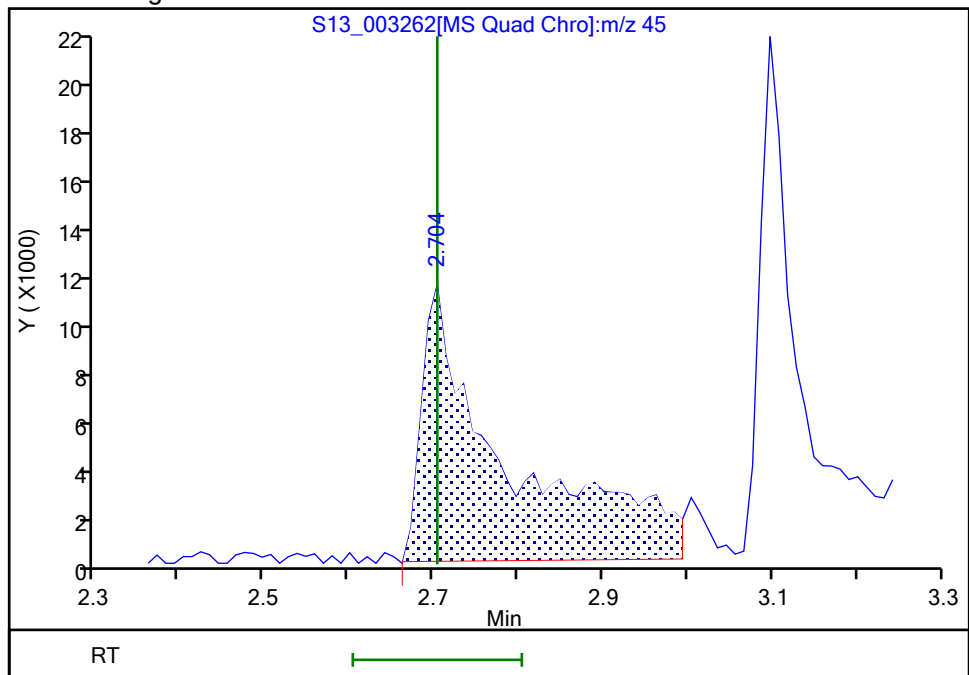
RT: 2.70
Area: 49037
Amount: 504.6800
Amount Units: ug/l

Processing Integration Results



RT: 2.70
Area: 79831
Amount: 622.4890
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:45:25 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

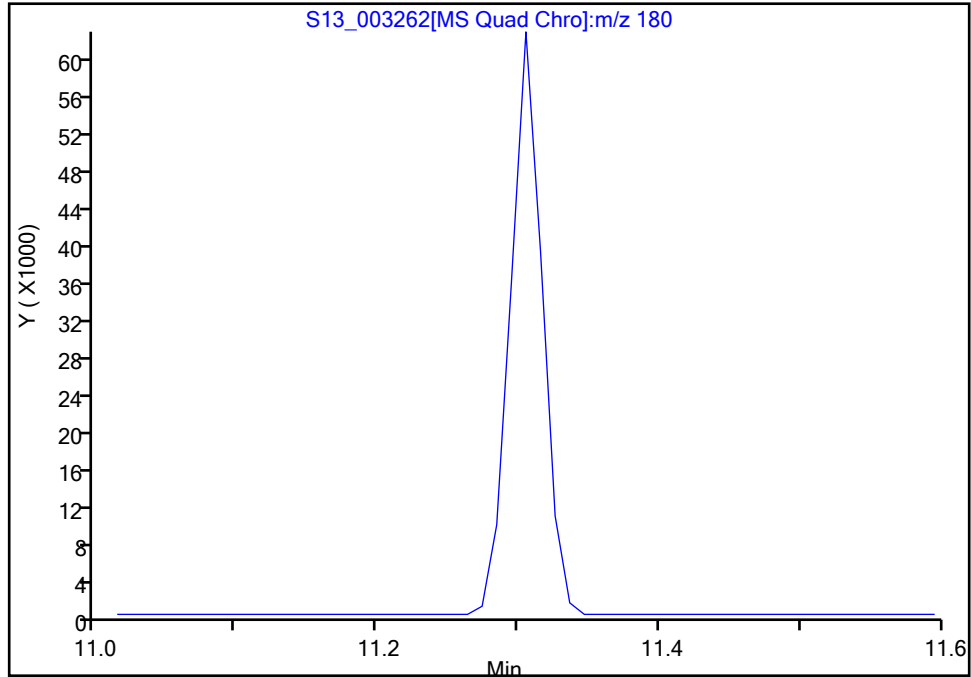
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003262.D
Injection Date: 11-Jul-2023 00:31:11 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

111 1,3,5-Trichlorobenzene, CAS: 108-70-3
Signal: 1

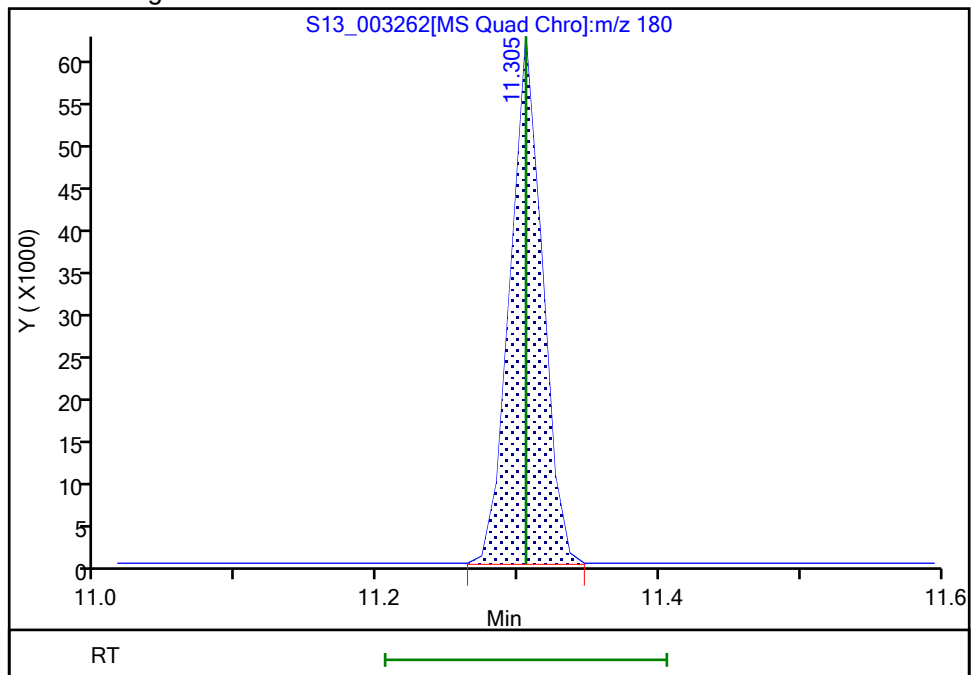
Not Detected
Expected RT: 11.31

Processing Integration Results



RT: 11.31
Area: 98840
Amount: 10.027553
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:43:10 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003263.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Jul-2023 00:53:38 ALS Bottle#: 0 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123383-029
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub8
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 11-Jul-2023 13:28:59 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1672

First Level Reviewer: RWB2

Date: 11-Jul-2023 09:37:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1368753	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	86	353272	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	96	571262	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.662	4.673	-0.011	93	351088	50.0	50.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	95	434814	50.0	50.0	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1474824	50.0	49.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	86	525847	50.0	48.9	
16 Ethanol	45	2.704	2.704	0.000	77	35512	300.0	279.1	M
23 Isopropyl alcohol	45	3.098	3.108	-0.010	100	43077	50.0	54.4	M
26 Acetonitrile	41	3.232	3.232	0.000	100	66919	50.0	49.2	
36 Isopropyl ether	87	3.896	3.896	0.000	96	30052	5.00	4.95	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	93	59081	5.00	4.81	
39 Tert-butyl ethyl ether	59	4.155	4.165	-0.010	98	120069	5.00	4.86	
41 Ethyl acetate	43	4.300	4.300	0.000	99	113986	10.0	9.81	
44 Propionitrile	54	4.341	4.341	0.000	100	101510	50.0	48.8	
46 Methacrylonitrile	41	4.455	4.455	0.000	92	316559	50.0	50.6	
58 Tert-amyl methyl ether	73	5.036	5.036	0.000	77	104614	5.00	4.96	
55 n-Butanol	56	5.036	5.036	0.000	47	48327	125.0	118.2	
63 Methyl methacrylate	100	5.668	5.668	0.000	97	26498	10.0	10.1	
68 2-Nitropropane	41	6.030	6.030	0.000	98	15527	10.0	9.34	
90 cis-1,4-Dichloro-2-butene	53	8.704	8.694	0.010	93	10731	10.0	8.77	
107 1,2,3-Trimethylbenzene	105	10.000	9.999	0.001	98	138288	5.00	4.76	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	95	53997	5.00	5.04	a
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MV-Supp B_00062

Amount Added: 5.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003263.D

Injection Date: 11-Jul-2023 00:53:38

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

29

Purge Vol: 5.000 mL

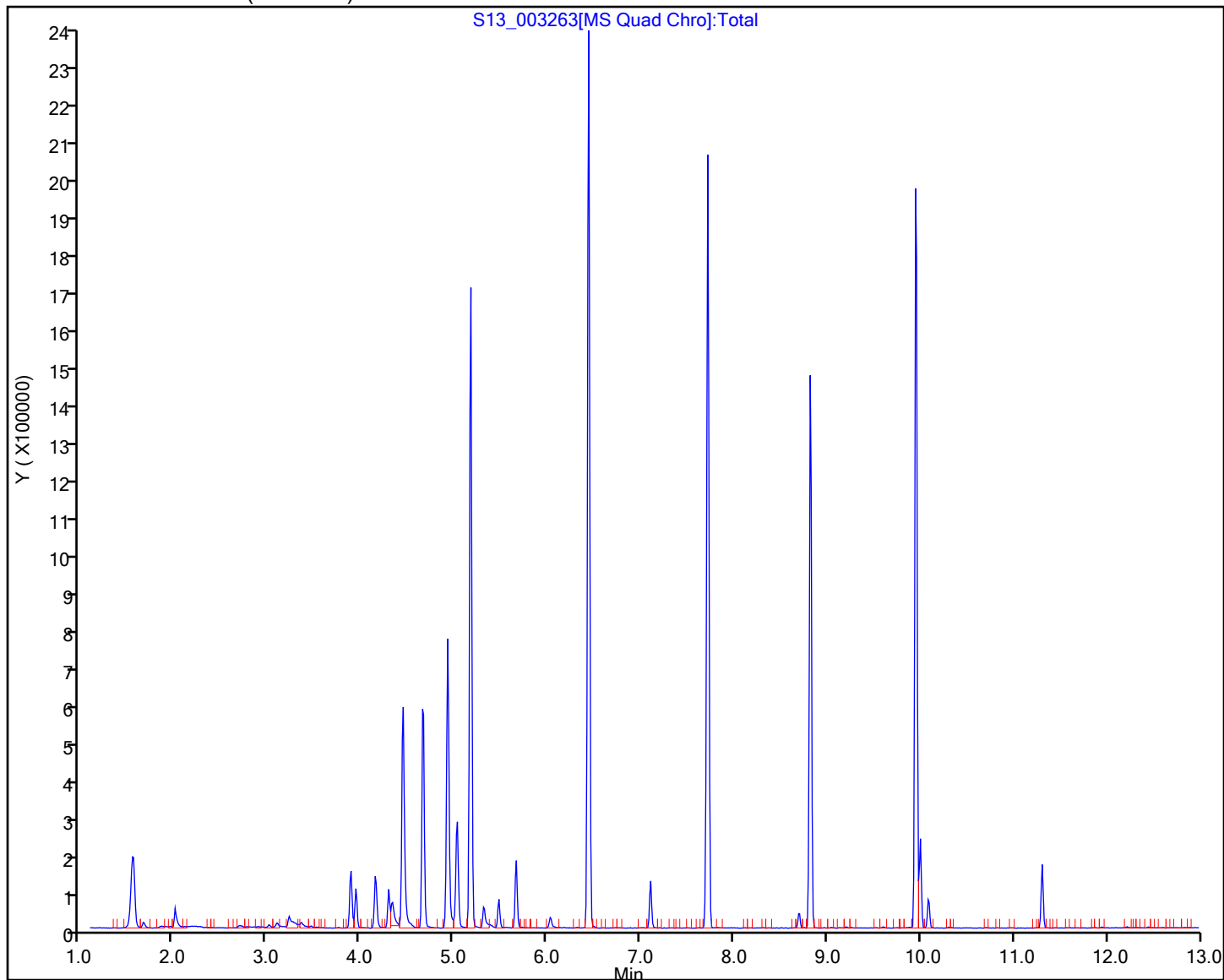
Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

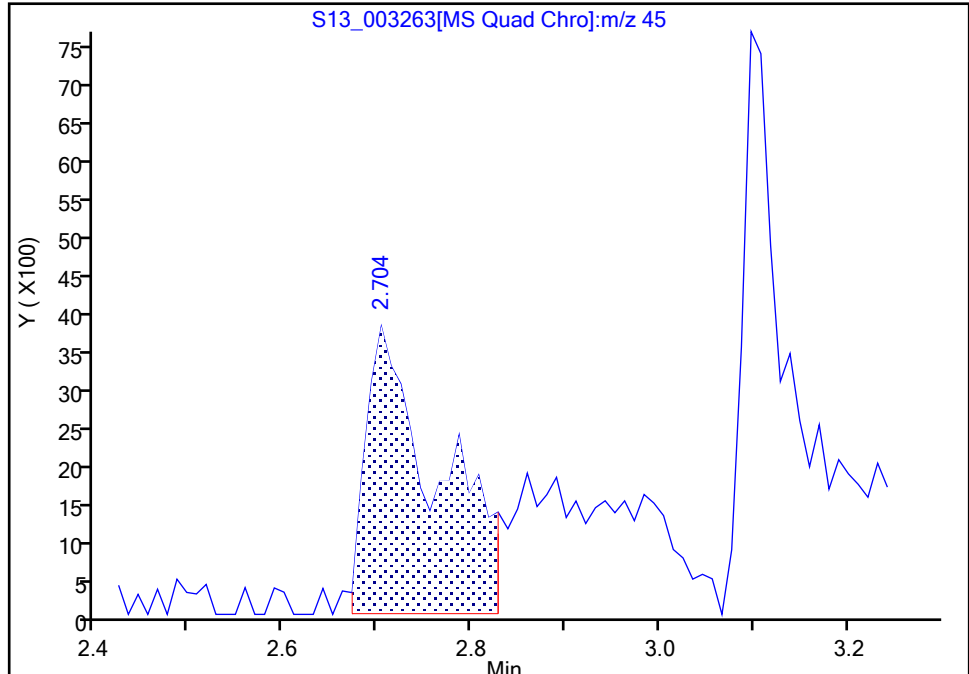
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003263.D
Injection Date: 11-Jul-2023 00:53:38 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

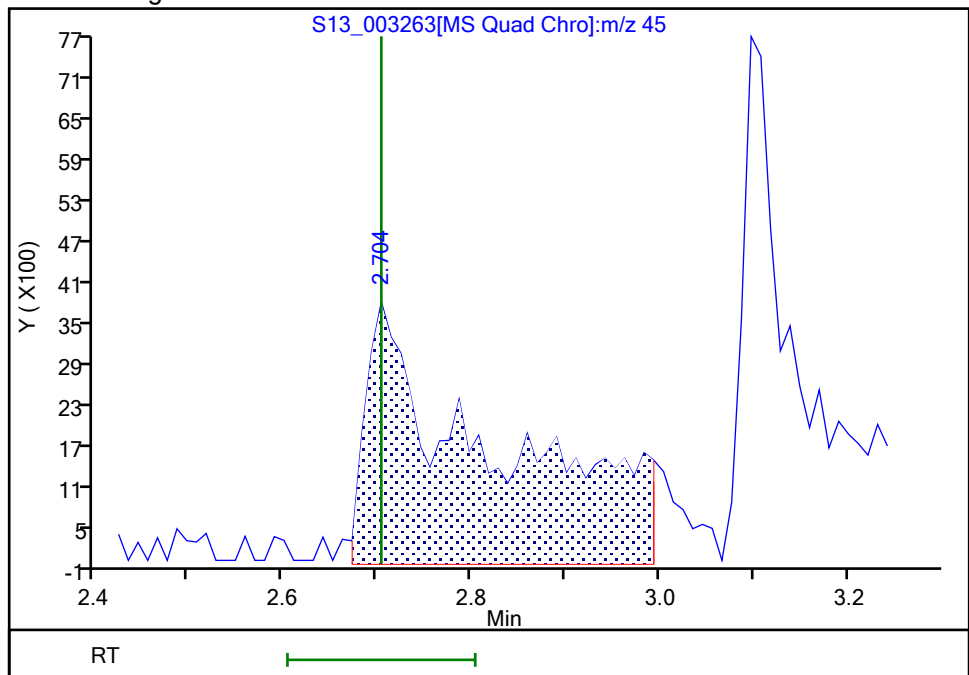
RT: 2.70
Area: 20287
Amount: 252.7782
Amount Units: ug/l

Processing Integration Results



RT: 2.70
Area: 35512
Amount: 279.0695
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:45:43 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

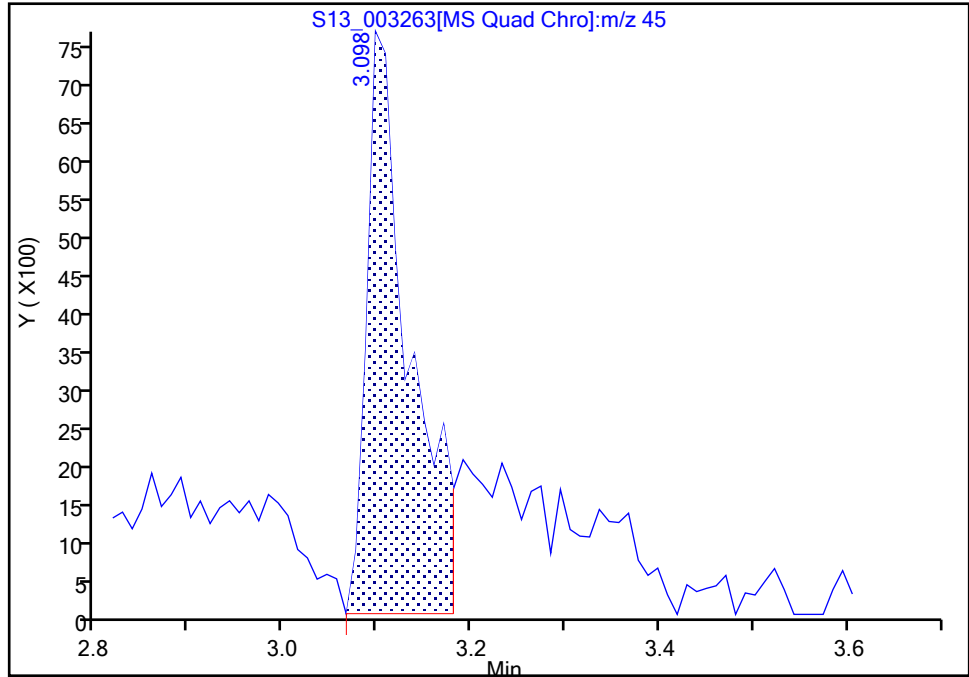
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003263.D
Injection Date: 11-Jul-2023 00:53:38 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

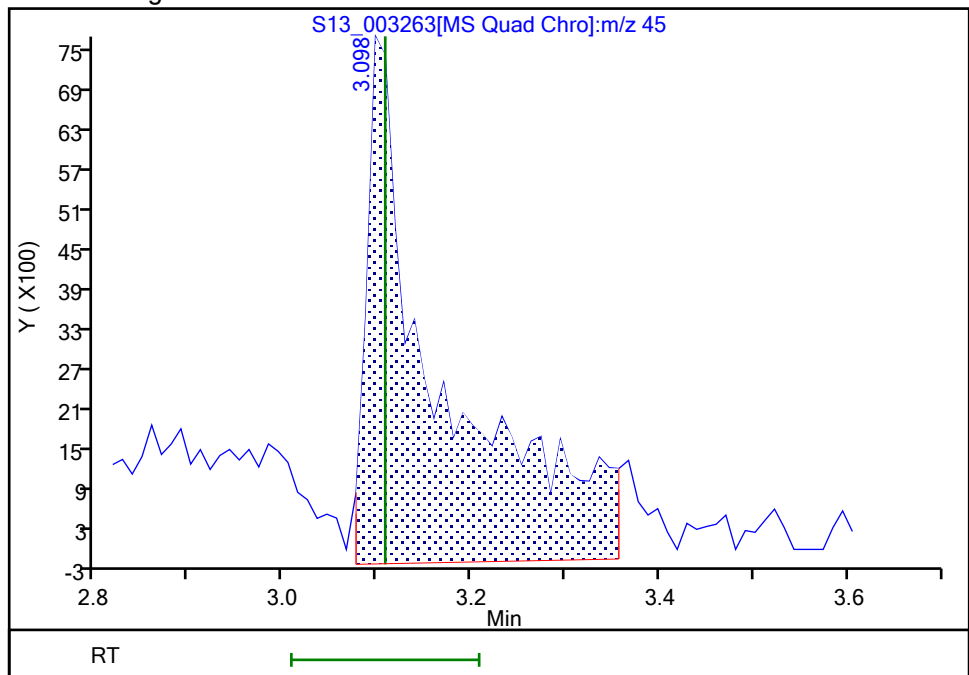
RT: 3.10
Area: 24502
Amount: 34.287541
Amount Units: ug/l

Processing Integration Results



RT: 3.10
Area: 43077
Amount: 54.393368
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:47:16 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

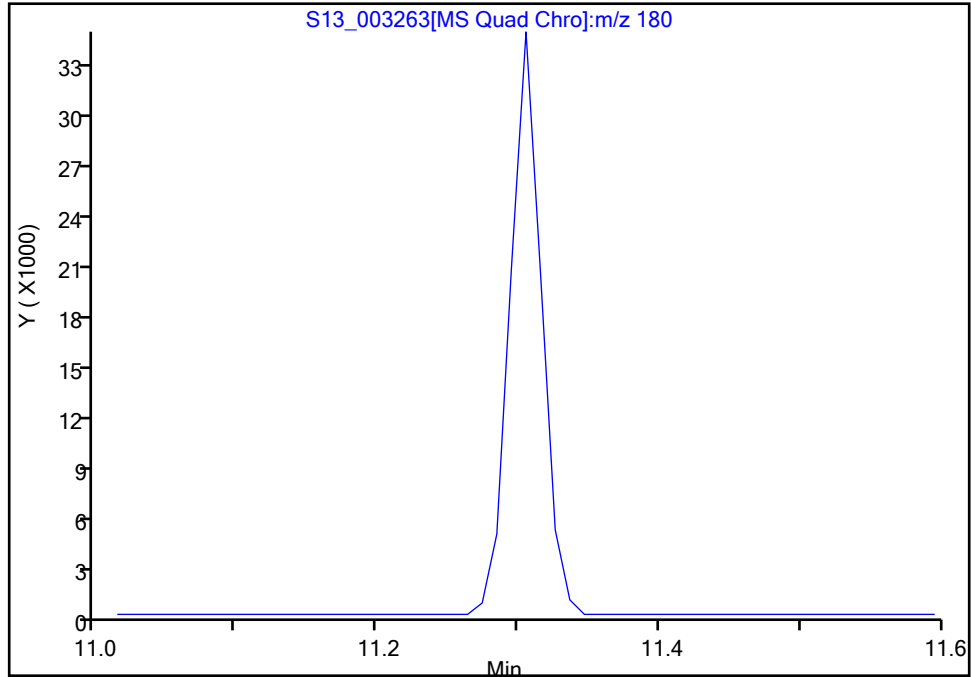
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003263.D
Injection Date: 11-Jul-2023 00:53:38 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

111 1,3,5-Trichlorobenzene, CAS: 108-70-3
Signal: 1

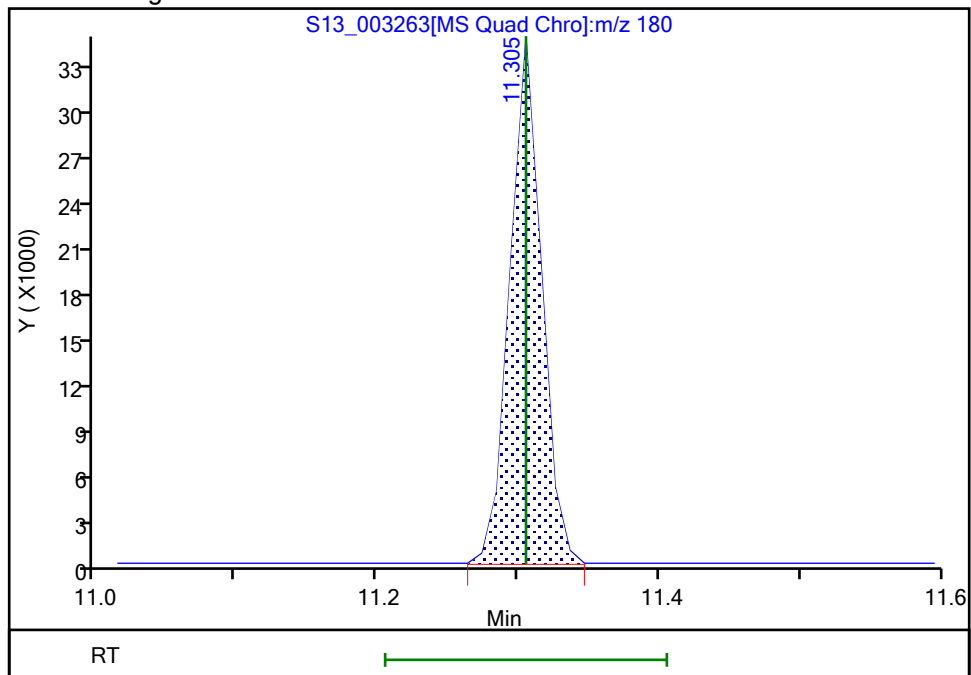
Not Detected
Expected RT: 11.31

Processing Integration Results



RT: 11.31
Area: 53997
Amount: 5.040325
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:43:01 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003264.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Jul-2023 01:16:07 ALS Bottle#: 0 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123383-030
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub8
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 11-Jul-2023 13:29:04 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1672

First Level Reviewer: RWB2

Date: 11-Jul-2023 09:36:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.180	5.181	-0.001	99	1425970	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.719	7.720	-0.001	87	344990	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.948	0.010	96	556640	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.662	4.673	-0.011	93	372497	50.0	51.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	95	449496	50.0	49.6	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1482317	50.0	51.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	86	527604	50.0	50.3	
16 Ethanol	45	2.693	2.704	-0.011	71	16963	120.0	128.0	M
23 Isopropyl alcohol	45	3.097	3.108	-0.011	25	20467	20.0	26.0	M
26 Acetonitrile	41	3.232	3.232	0.000	99	27839	20.0	22.7	
36 Isopropyl ether	87	3.895	3.896	-0.001	96	11959	2.00	1.89	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	91	25965	2.00	2.03	
39 Tert-butyl ethyl ether	59	4.155	4.165	-0.011	98	49907	2.00	1.94	
41 Ethyl acetate	43	4.300	4.300	0.000	99	49468	4.00	4.09	
44 Propionitrile	54	4.341	4.341	0.000	99	43911	20.0	20.3	
46 Methacrylonitrile	41	4.455	4.455	0.000	92	133267	20.0	20.4	
58 Tert-amyl methyl ether	73	5.035	5.036	-0.001	74	43764	2.00	1.99	
55 n-Butanol	56	5.025	5.036	-0.011	45	23003	50.0	54.0	
63 Methyl methacrylate	100	5.668	5.668	0.000	90	9063	4.00	3.30	
68 2-Nitropropane	41	6.030	6.030	0.000	86	6419	4.00	3.71	
90 cis-1,4-Dichloro-2-butene	53	8.704	8.694	0.010	87	3575	4.00	4.88	
107 1,2,3-Trimethylbenzene	105	9.999	9.999	0.000	98	56955	2.00	2.01	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	96	21452	2.00	2.06	a
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MV-Supp B_00062

Amount Added: 2.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003264.D

Injection Date: 11-Jul-2023 01:16:07

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

30

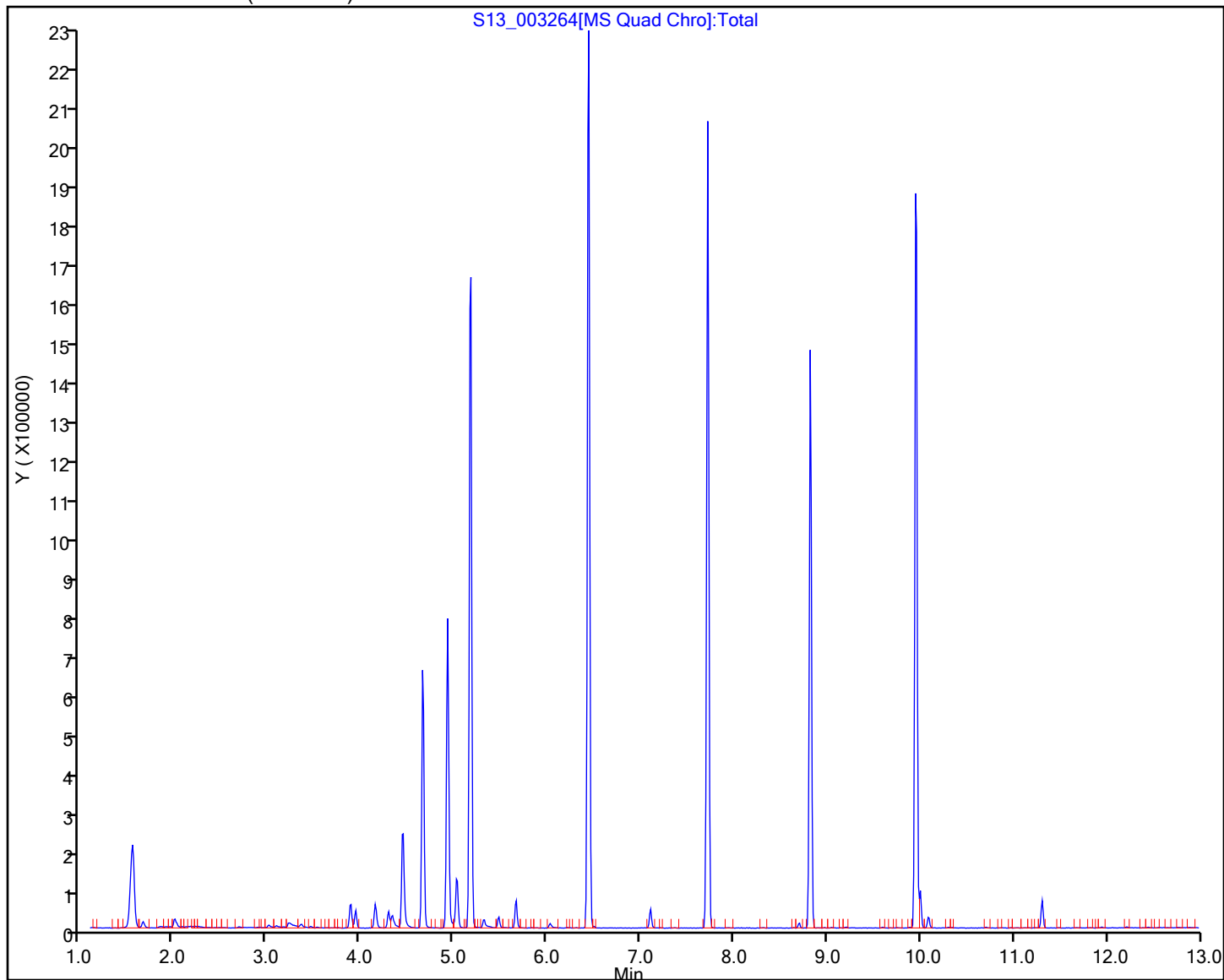
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

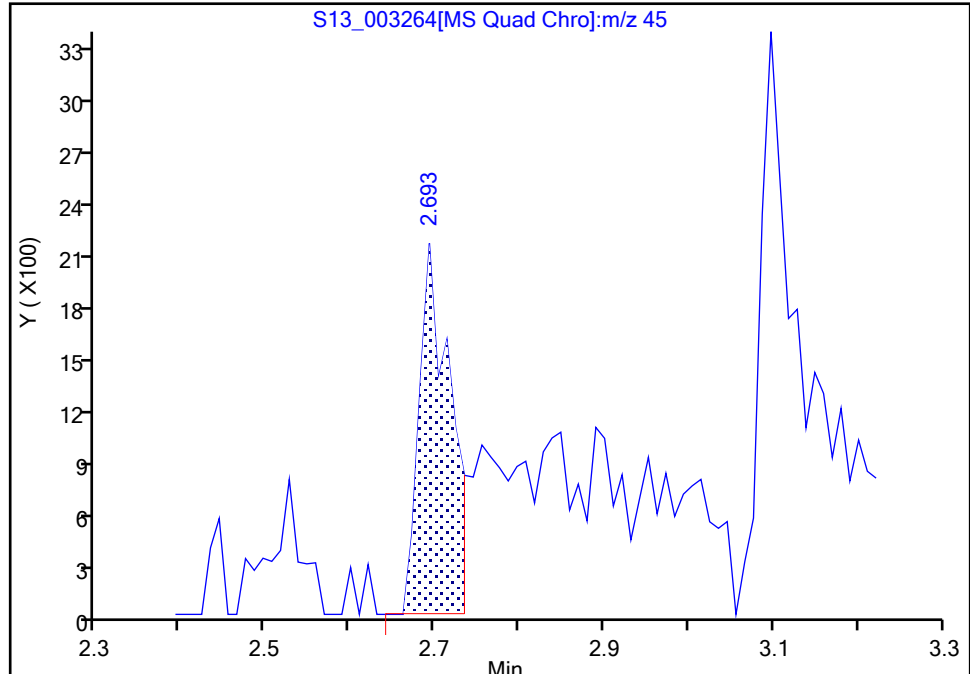
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003264.D
Injection Date: 11-Jul-2023 01:16:07 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

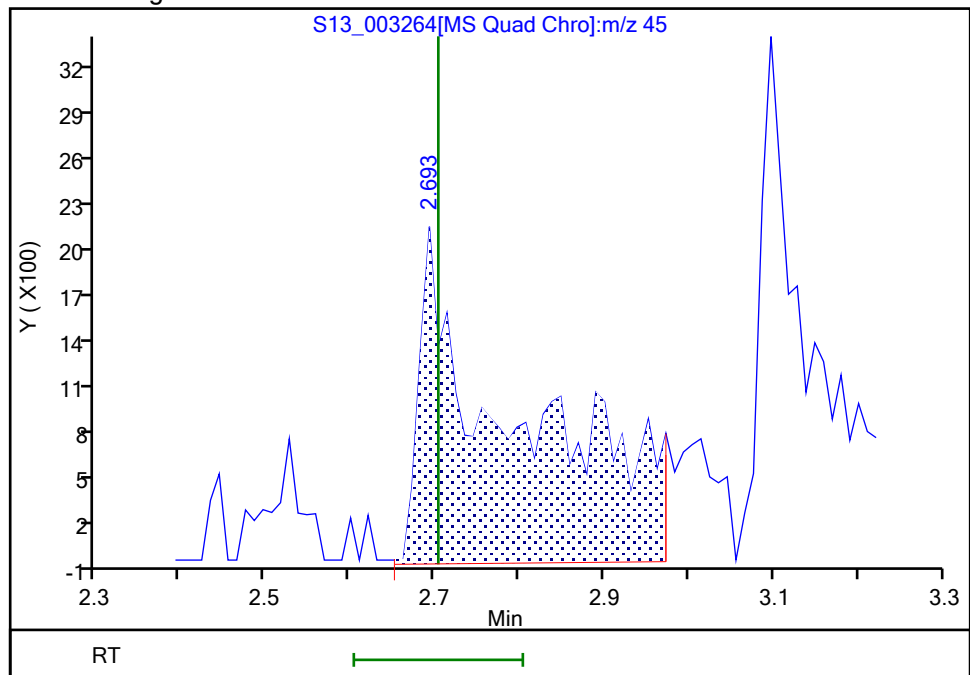
RT: 2.69
Area: 5390
Amount: 104.1105
Amount Units: ug/l

Processing Integration Results



RT: 2.69
Area: 16963
Amount: 127.9542
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:45:58 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

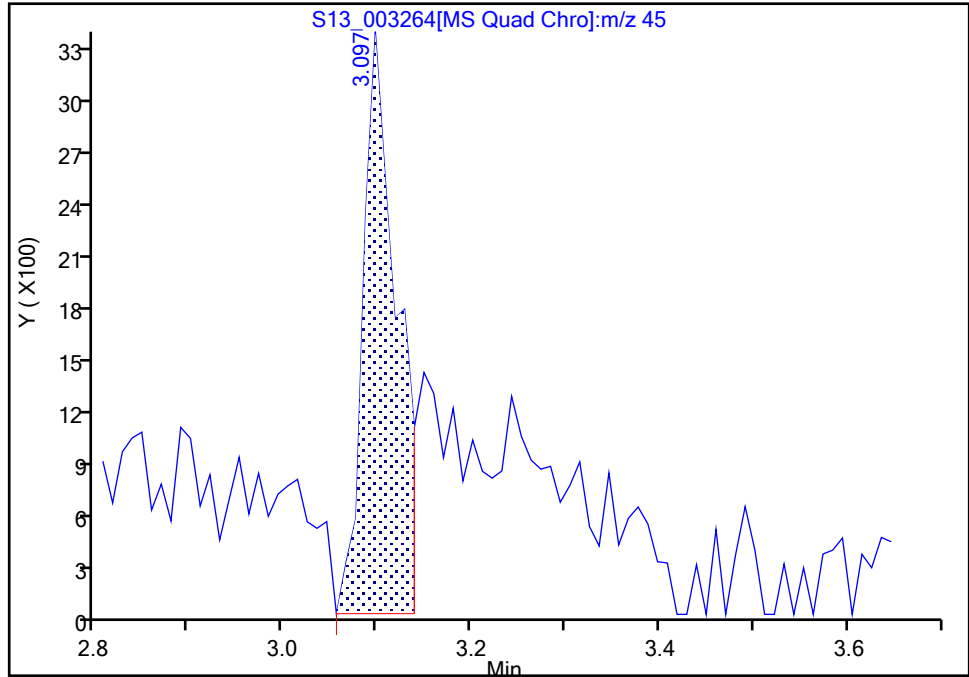
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003264.D
Injection Date: 11-Jul-2023 01:16:07 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

23 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

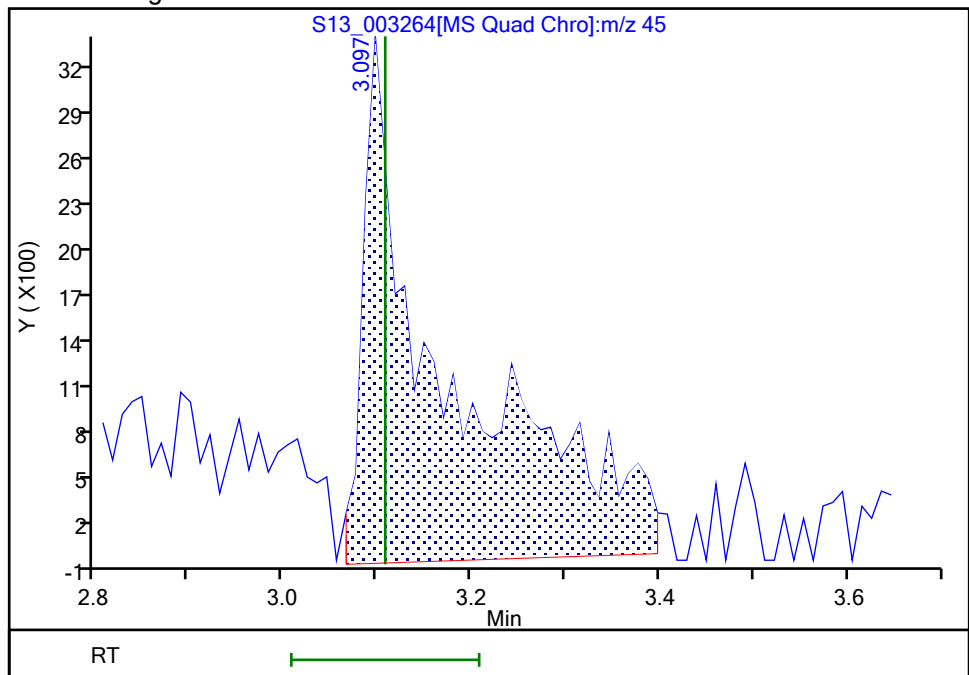
RT: 3.10
Area: 8323
Amount: 18.166979
Amount Units: ug/l

Processing Integration Results



RT: 3.10
Area: 20467
Amount: 25.963194
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:47:02 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

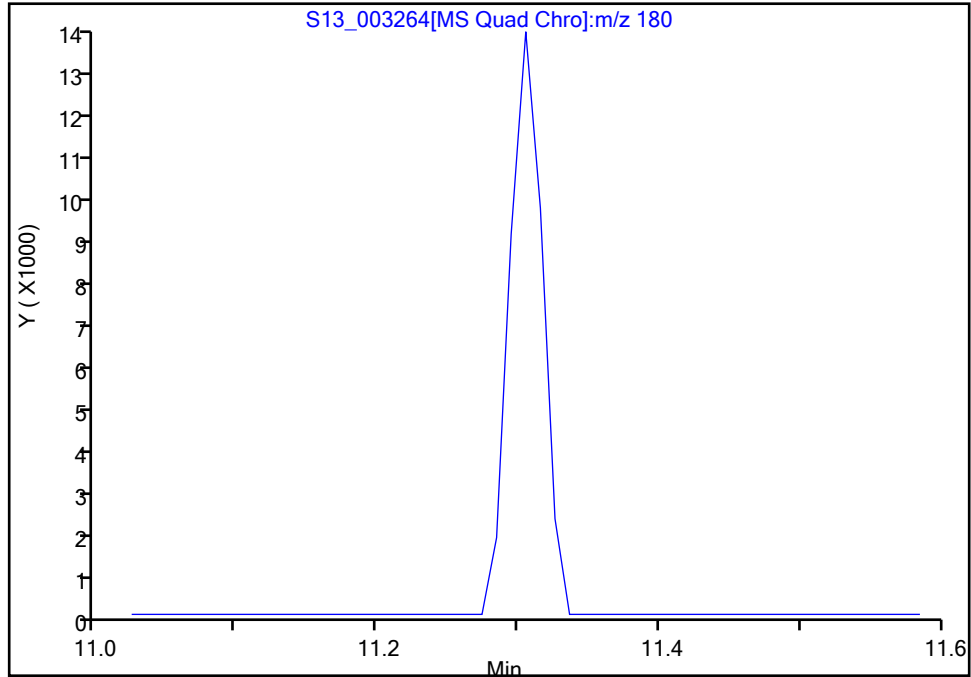
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003264.D
Injection Date: 11-Jul-2023 01:16:07 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

111 1,3,5-Trichlorobenzene, CAS: 108-70-3
Signal: 1

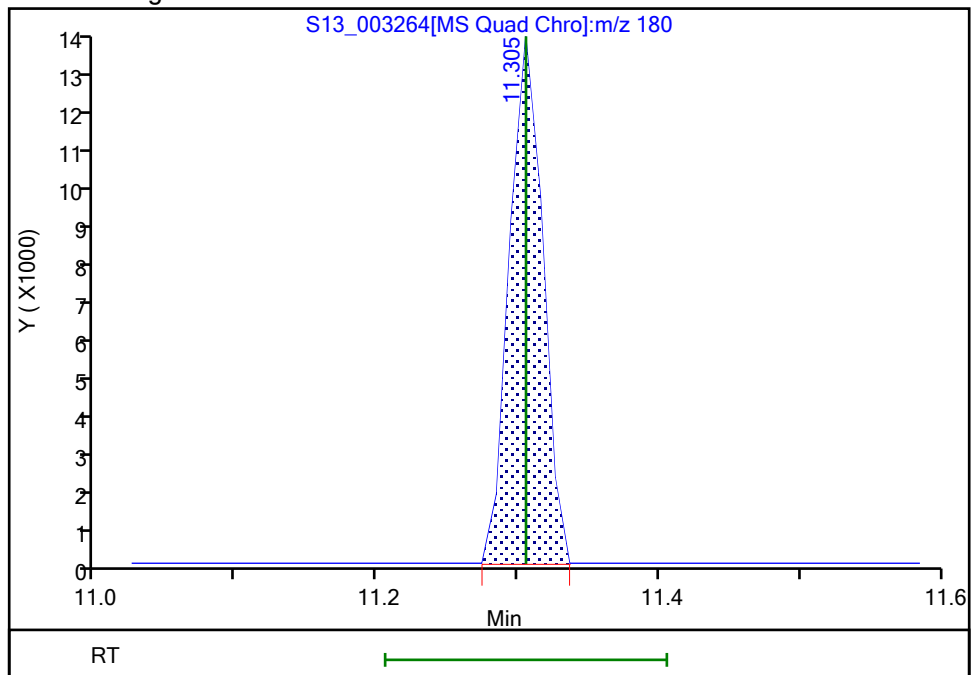
Not Detected
Expected RT: 11.31

Processing Integration Results



RT: 11.31
Area: 21452
Amount: 2.055027
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:42:49 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Jul-2023 01:38:26 ALS Bottle#: 0 Worklist Smp#: 31
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123383-031
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub8
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 11-Jul-2023 13:29:11 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1672

First Level Reviewer: RWB2

Date: 11-Jul-2023 09:42:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1359913	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	349192	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	96	571581	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	347392	50.0	50.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	431439	50.0	50.0	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1459059	50.0	49.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	86	533013	50.0	49.5	
16 Ethanol	45	2.724	2.704	0.020	36	9120	60.0	72.1	M
23 Isopropyl alcohol	45	3.098	3.108	-0.010	35	5297	10.0	8.59	
26 Acetonitrile	41	3.243	3.232	0.011	79	6357	10.0	9.31	
36 Isopropyl ether	87	3.896	3.896	0.000	95	6008	1.00	1.00	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	91	11894	1.00	0.9737	
39 Tert-butyl ethyl ether	59	4.165	4.165	0.000	99	24206	1.00	0.9857	
41 Ethyl acetate	43	4.300	4.300	0.000	99	25120	2.00	2.18	
44 Propionitrile	54	4.341	4.341	0.000	97	20185	10.0	9.77	
46 Methacrylonitrile	41	4.455	4.455	0.000	92	63421	10.0	10.2	
58 Tert-amyl methyl ether	73	5.035	5.036	-0.001	71	19755	1.00	0.9430	
55 n-Butanol	56	5.035	5.036	-0.001	46	10957	25.0	27.0	
63 Methyl methacrylate	100	5.668	5.668	0.000	99	5230	2.00	2.00	
68 2-Nitropropane	41	6.041	6.030	0.011	92	2958	2.00	1.79	
90 cis-1,4-Dichloro-2-butene	53	8.694	8.694	0.000	84	1738	2.00	3.82	
107 1,2,3-Trimethylbenzene	105	9.999	9.999	0.000	97	29002	1.00	1.00	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	95	12847	1.00	1.20	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MV-Supp B_00062

Amount Added: 1.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D

Injection Date: 11-Jul-2023 01:38:26

Instrument ID: VMS_MS13

Lims ID: IC

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

31

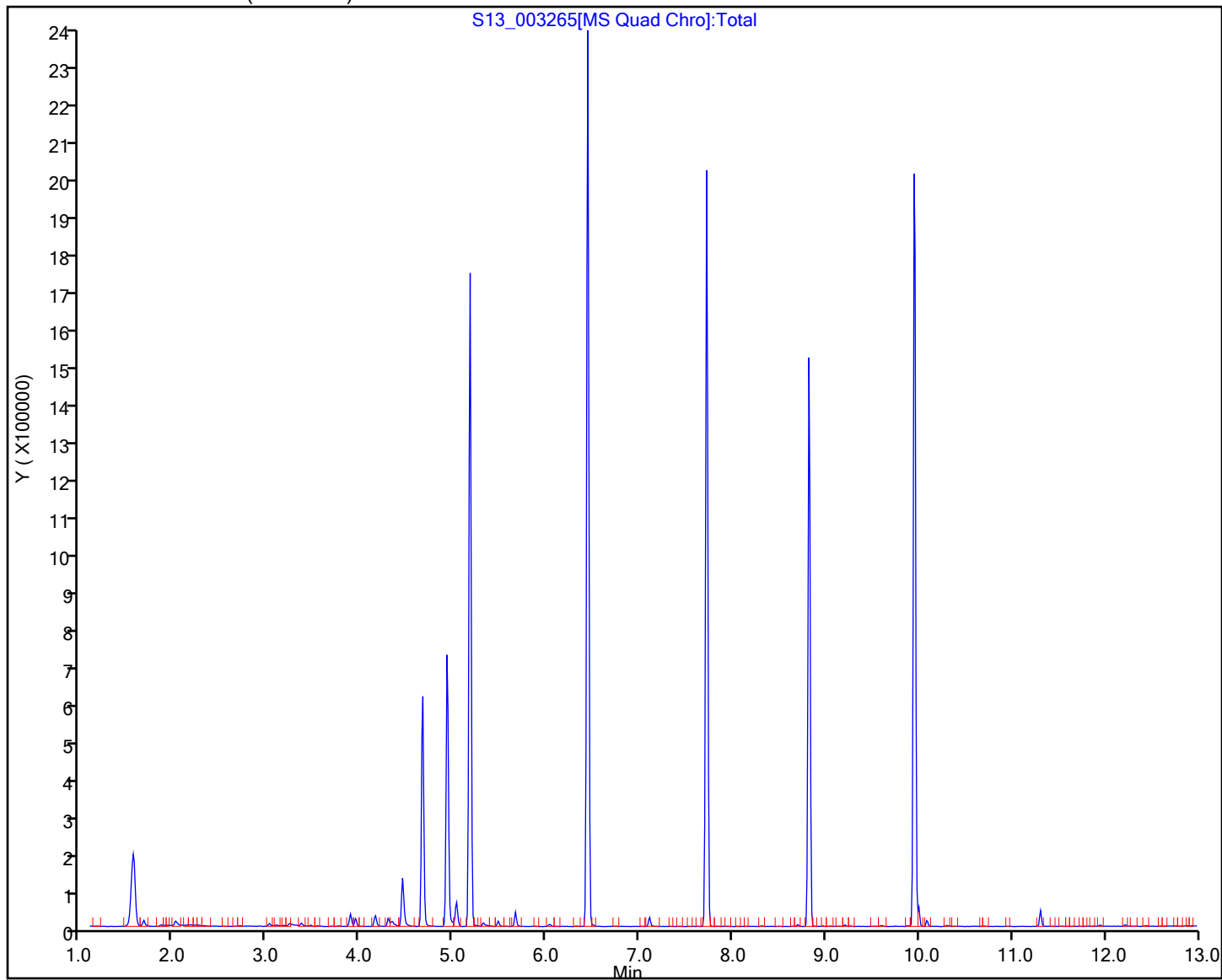
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

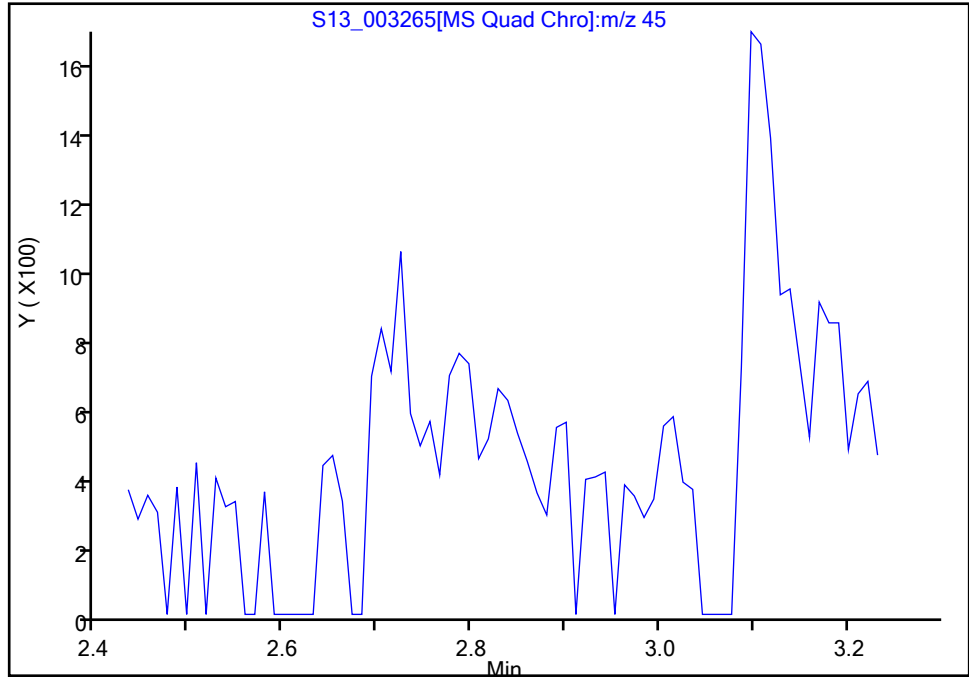
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003265.D
Injection Date: 11-Jul-2023 01:38:26 Instrument ID: VMS_MS13
Lims ID: IC
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

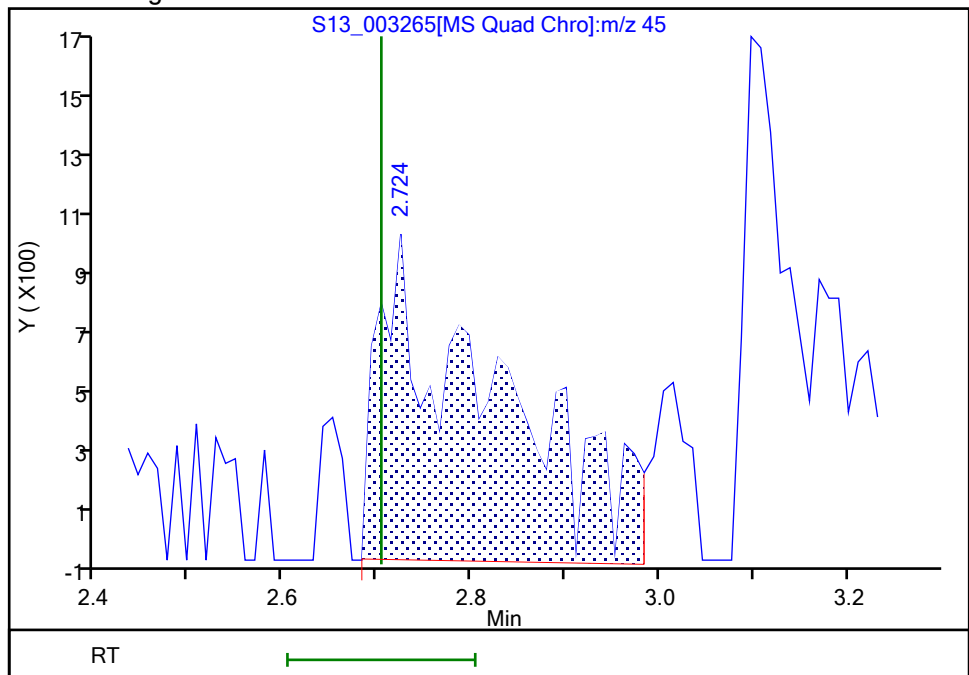
Not Detected
Expected RT: 2.70

Processing Integration Results



Manual Integration Results

RT: 2.72
Area: 9120
Amount: 72.134995
Amount Units: ug/l



Reviewer: RWB2, 11-Jul-2023 09:46:19 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Calibration

/ Ethanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

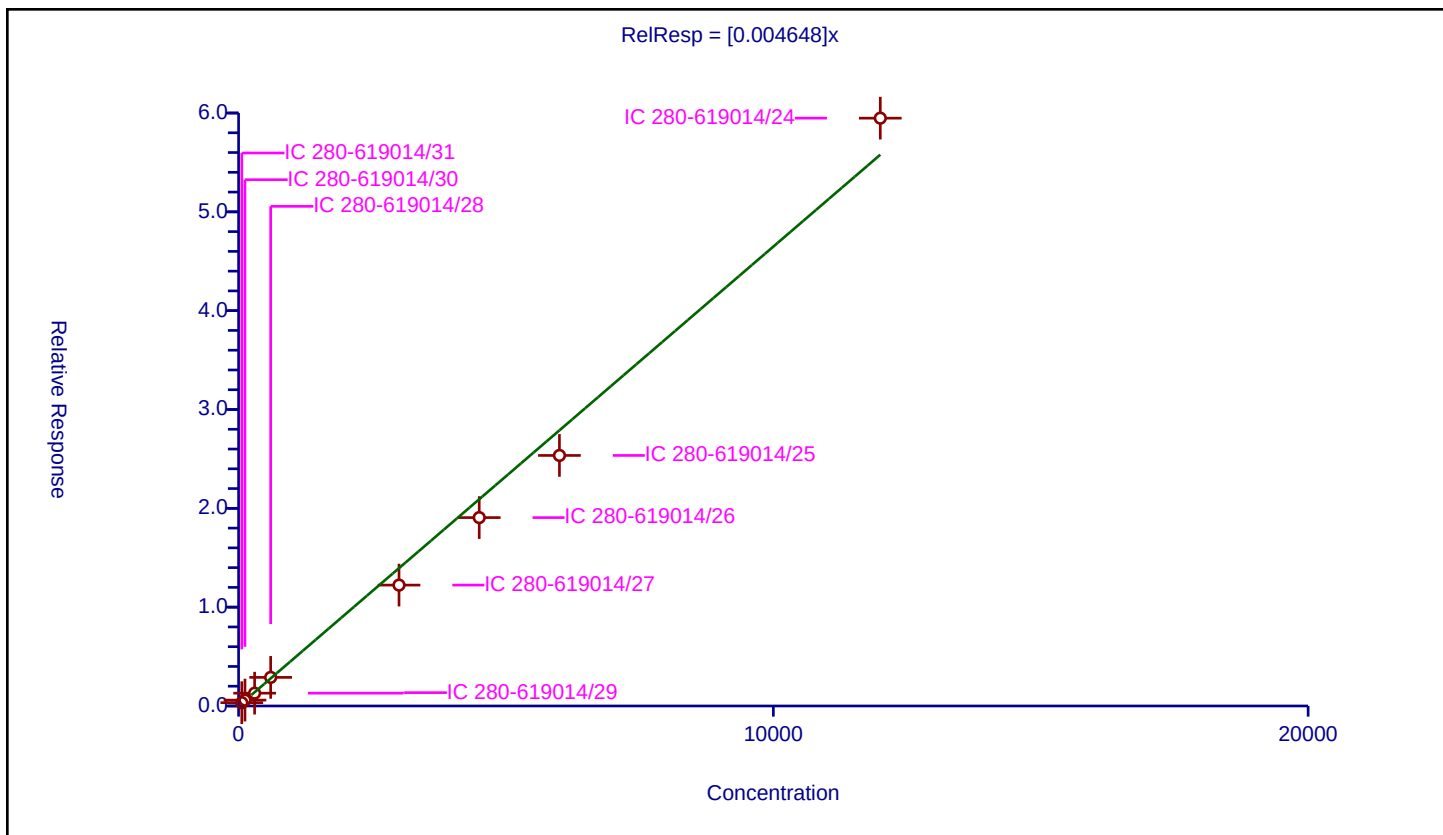
Curve Coefficients

Intercept: 0
 Slope: 0.004648

Error Coefficients

Standard Error: 710000
 Relative Standard Error: 11.2
 Correlation Coefficient: 0.994
 Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	60.0	0.335316	50.0	1359913.0	0.005589	Y
2	IC 280-619014/30	120.0	0.594788	50.0	1425970.0	0.004957	Y
3	IC 280-619014/29	300.0	1.297239	50.0	1368753.0	0.004324	Y
4	IC 280-619014/28	600.0	2.893606	50.0	1379438.0	0.004823	Y
5	IC 280-619014/27	3000.0	12.232641	50.0	1392745.0	0.004078	Y
6	IC 280-619014/26	4500.0	19.062477	50.0	1327776.0	0.004236	Y
7	IC 280-619014/25	6000.0	25.352497	50.0	1419872.0	0.004225	Y
8	IC 280-619014/24	12000.0	59.478291	50.0	1363173.0	0.004957	Y



Calibration

/ Isopropyl alcohol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

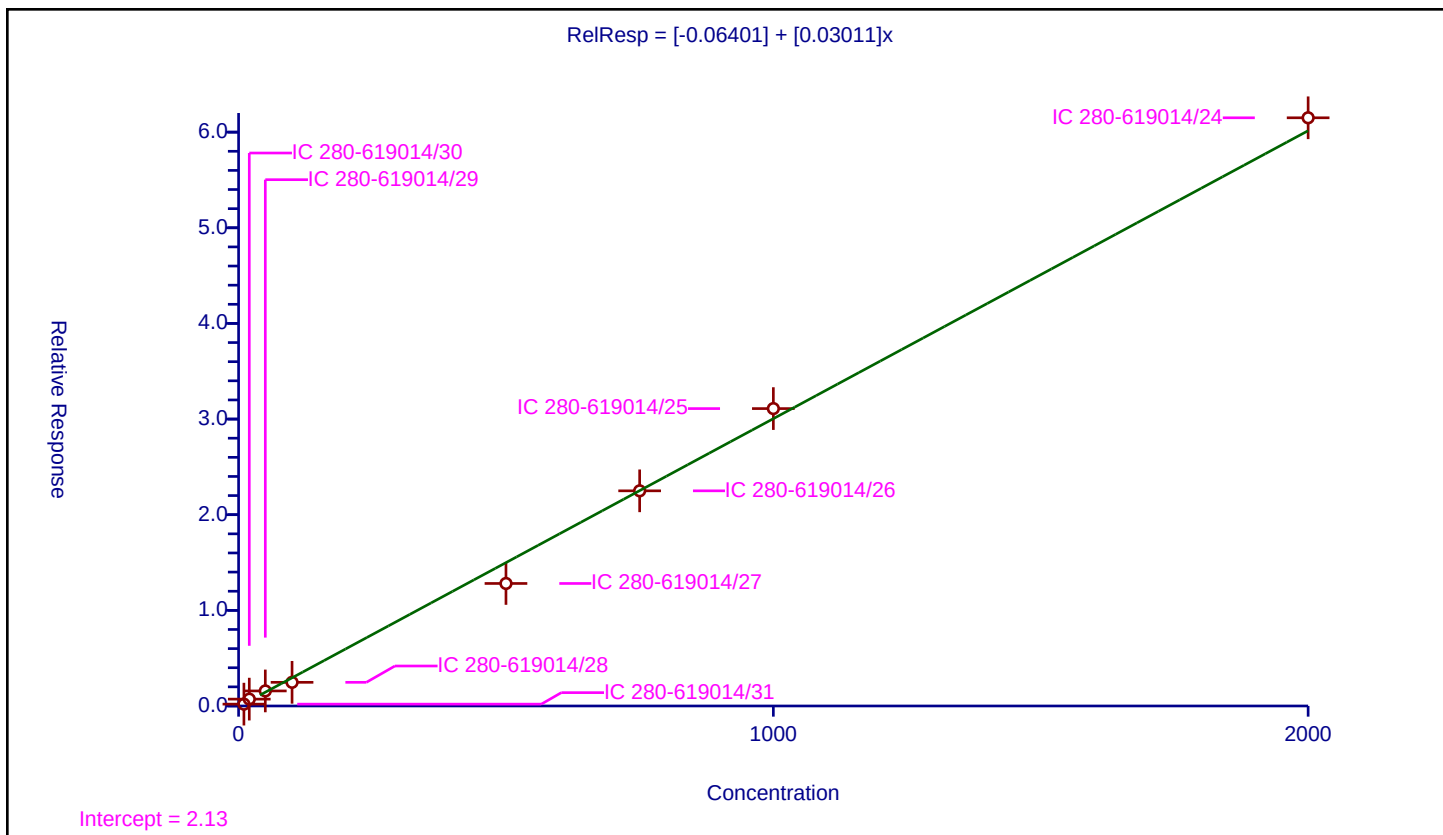
Curve Coefficients

Intercept: -0.06401
 Slope: 0.03011

Error Coefficients

Standard Error: 825000
 Relative Standard Error: 16.5
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	10.0	0.194755	50.0	1359913.0	0.019476	Y
2	IC 280-619014/30	20.0	0.717652	50.0	1425970.0	0.035883	Y
3	IC 280-619014/29	50.0	1.573586	50.0	1368753.0	0.031472	Y
4	IC 280-619014/28	100.0	2.473217	50.0	1379438.0	0.024732	Y
5	IC 280-619014/27	500.0	12.809416	50.0	1392745.0	0.025619	Y
6	IC 280-619014/26	750.0	22.496716	50.0	1327776.0	0.029996	Y
7	IC 280-619014/25	1000.0	31.094775	50.0	1419872.0	0.031095	Y
8	IC 280-619014/24	2000.0	61.499714	50.0	1363173.0	0.03075	Y



Calibration

/ Acetonitrile

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

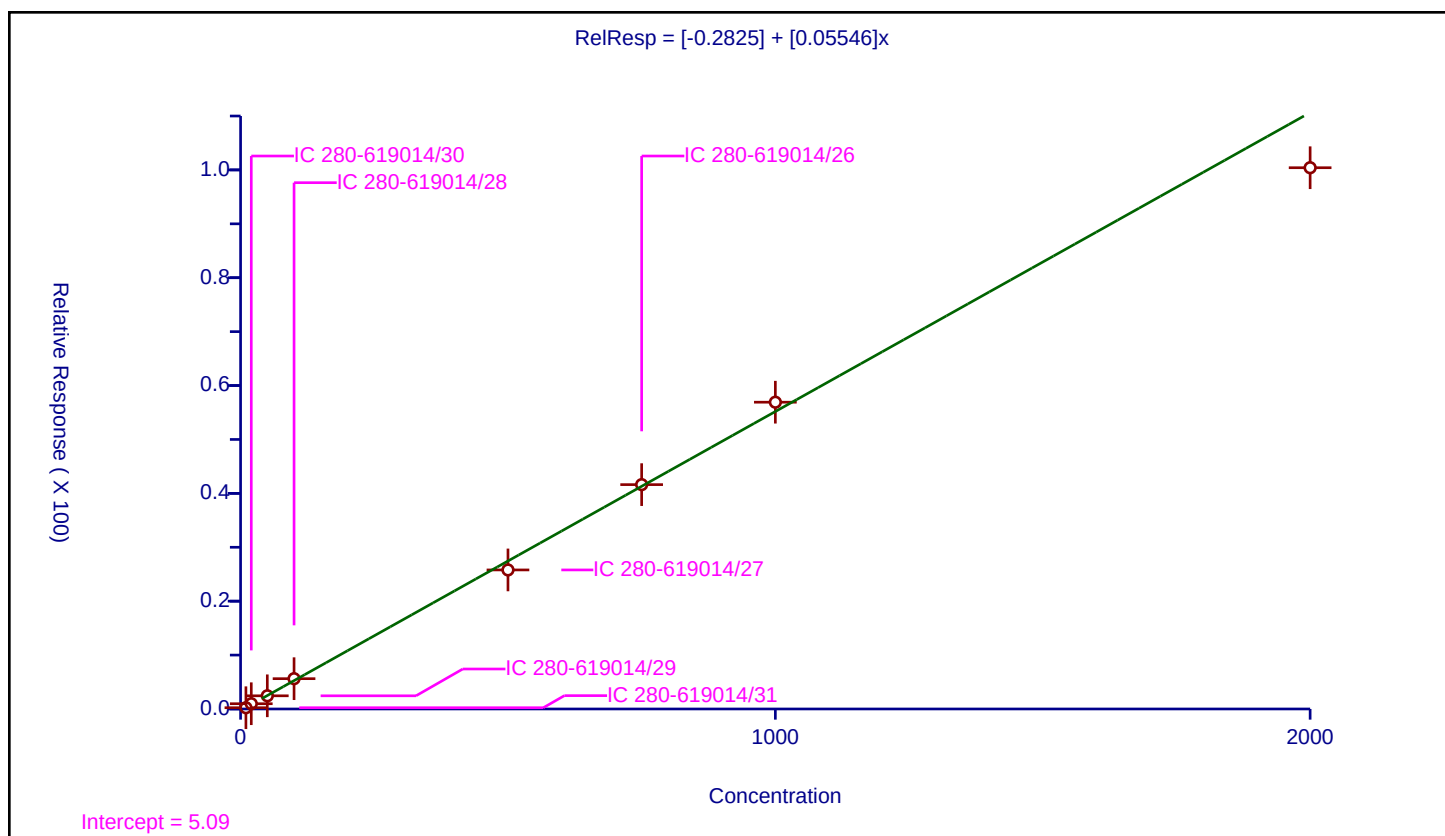
Curve Coefficients

Intercept: -0.2825
Slope: 0.05546

Error Coefficients

Standard Error: 1410000
Relative Standard Error: 8.2
Correlation Coefficient: 0.993
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	10.0	0.233728	50.0	1359913.0	0.023373	Y
2	IC 280-619014/30	20.0	0.976143	50.0	1425970.0	0.048807	Y
3	IC 280-619014/29	50.0	2.444524	50.0	1368753.0	0.04889	Y
4	IC 280-619014/28	100.0	5.621818	50.0	1379438.0	0.056218	Y
5	IC 280-619014/27	500.0	25.795174	50.0	1392745.0	0.05159	Y
6	IC 280-619014/26	750.0	41.618805	50.0	1327776.0	0.055492	Y
7	IC 280-619014/25	1000.0	56.9102	50.0	1419872.0	0.05691	Y
8	IC 280-619014/24	2000.0	100.407322	50.0	1363173.0	0.050204	Y



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

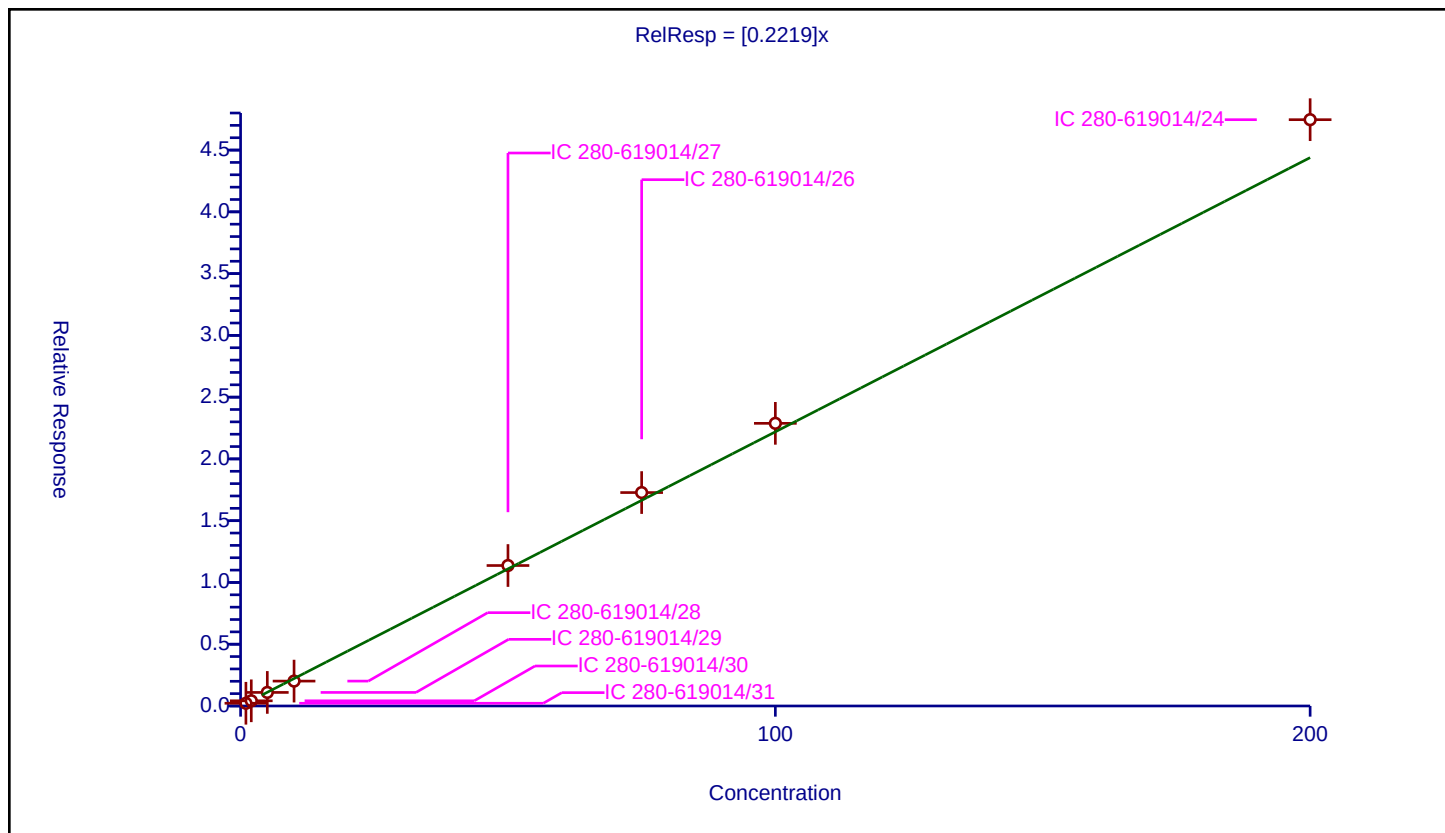
Curve Coefficients

Intercept: 0
 Slope: 0.2219

Error Coefficients

Standard Error: 587000
 Relative Standard Error: 5.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	1.0	0.220896	50.0	1359913.0	0.220896	Y
2	IC 280-619014/30	2.0	0.419329	50.0	1425970.0	0.209664	Y
3	IC 280-619014/29	5.0	1.097788	50.0	1368753.0	0.219558	Y
4	IC 280-619014/28	10.0	2.015313	50.0	1379438.0	0.201531	Y
5	IC 280-619014/27	50.0	11.371285	50.0	1392745.0	0.227426	Y
6	IC 280-619014/26	75.0	17.277349	50.0	1327776.0	0.230365	Y
7	IC 280-619014/25	100.0	22.88076	50.0	1419872.0	0.228808	Y
8	IC 280-619014/24	200.0	47.459787	50.0	1363173.0	0.237299	Y



Calibration

/ 2-Chloro-1,3-butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

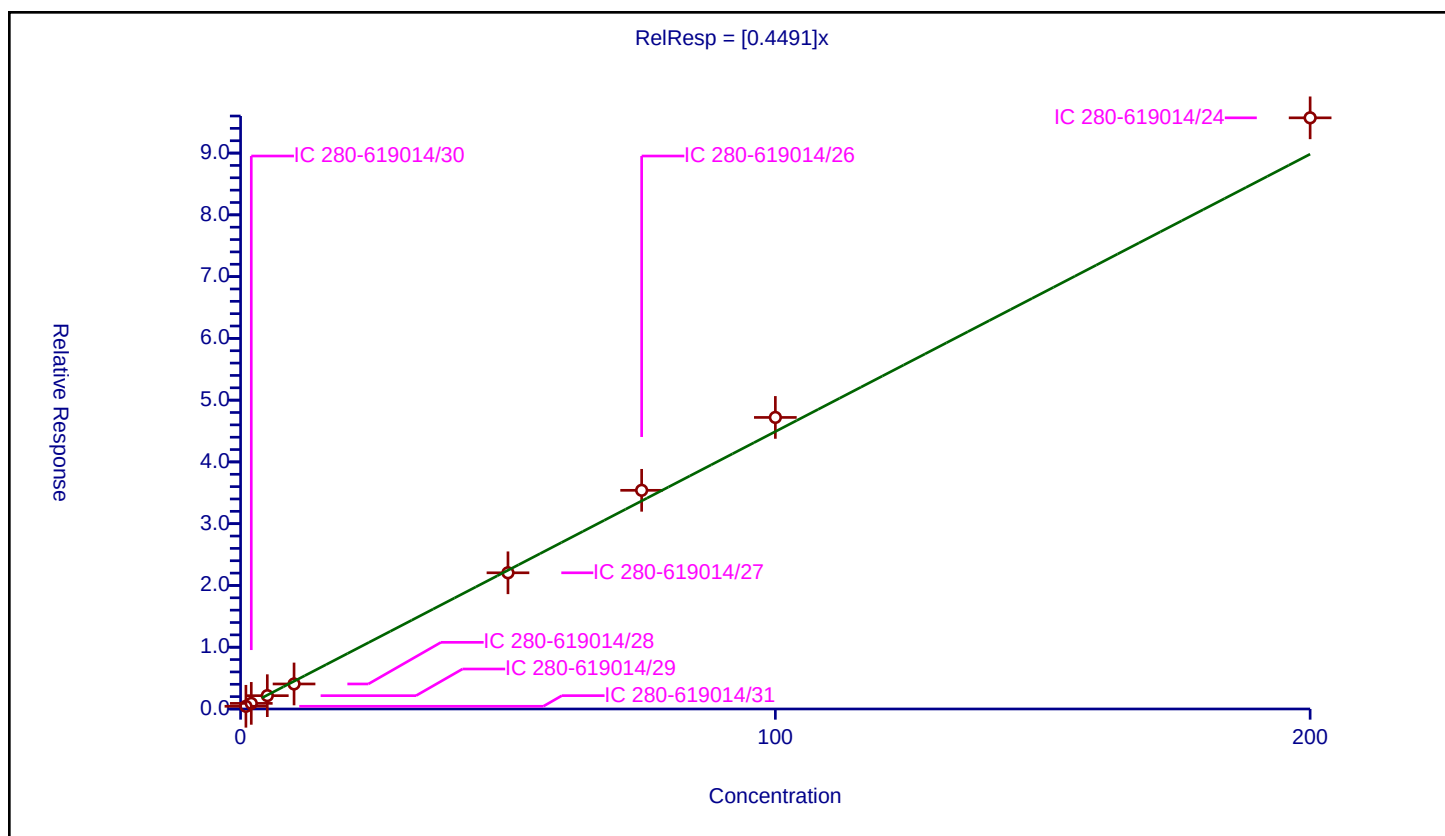
Curve Coefficients

Intercept: 0
Slope: 0.4491

Error Coefficients

Standard Error: 1190000
Relative Standard Error: 5.6
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	1.0	0.437307	50.0	1359913.0	0.437307	Y
2	IC 280-619014/30	2.0	0.910433	50.0	1425970.0	0.455216	Y
3	IC 280-619014/29	5.0	2.158205	50.0	1368753.0	0.431641	Y
4	IC 280-619014/28	10.0	4.051578	50.0	1379438.0	0.405158	Y
5	IC 280-619014/27	50.0	22.052027	50.0	1392745.0	0.441041	Y
6	IC 280-619014/26	75.0	35.40552	50.0	1327776.0	0.472074	Y
7	IC 280-619014/25	100.0	47.202424	50.0	1419872.0	0.472024	Y
8	IC 280-619014/24	200.0	95.704911	50.0	1363173.0	0.478525	Y



Calibration

/ Tert-butyl ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

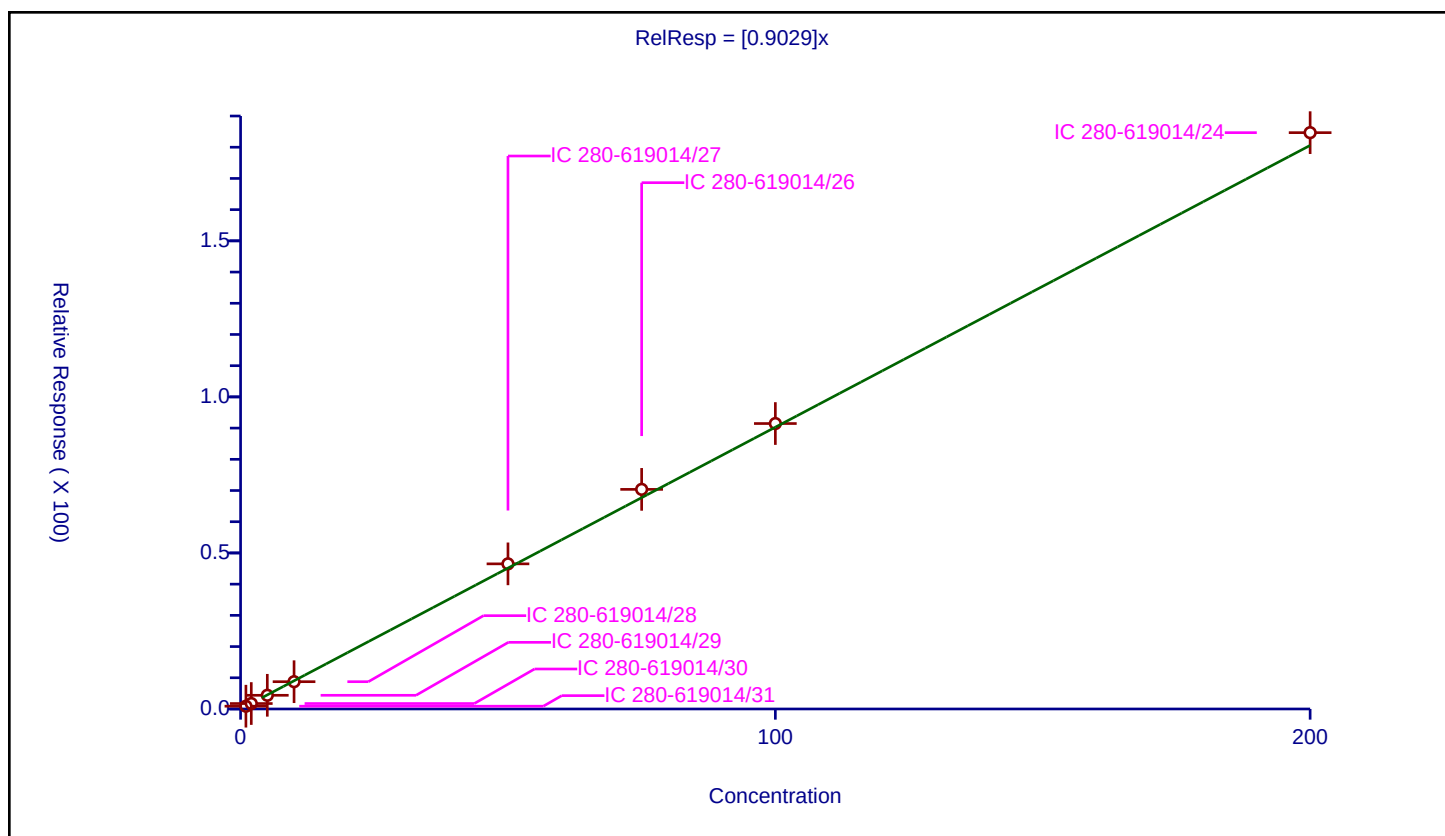
Curve Coefficients

Intercept: 0
 Slope: 0.9029

Error Coefficients

Standard Error: 2310000
 Relative Standard Error: 2.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	1.0	0.889983	50.0	1359913.0	0.889983	Y
2	IC 280-619014/30	2.0	1.749932	50.0	1425970.0	0.874966	Y
3	IC 280-619014/29	5.0	4.386073	50.0	1368753.0	0.877215	Y
4	IC 280-619014/28	10.0	8.747222	50.0	1379438.0	0.874722	Y
5	IC 280-619014/27	50.0	46.502447	50.0	1392745.0	0.930049	Y
6	IC 280-619014/26	75.0	70.369136	50.0	1327776.0	0.938255	Y
7	IC 280-619014/25	100.0	91.465076	50.0	1419872.0	0.914651	Y
8	IC 280-619014/24	200.0	184.670948	50.0	1363173.0	0.923355	Y



Calibration

/ Ethyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

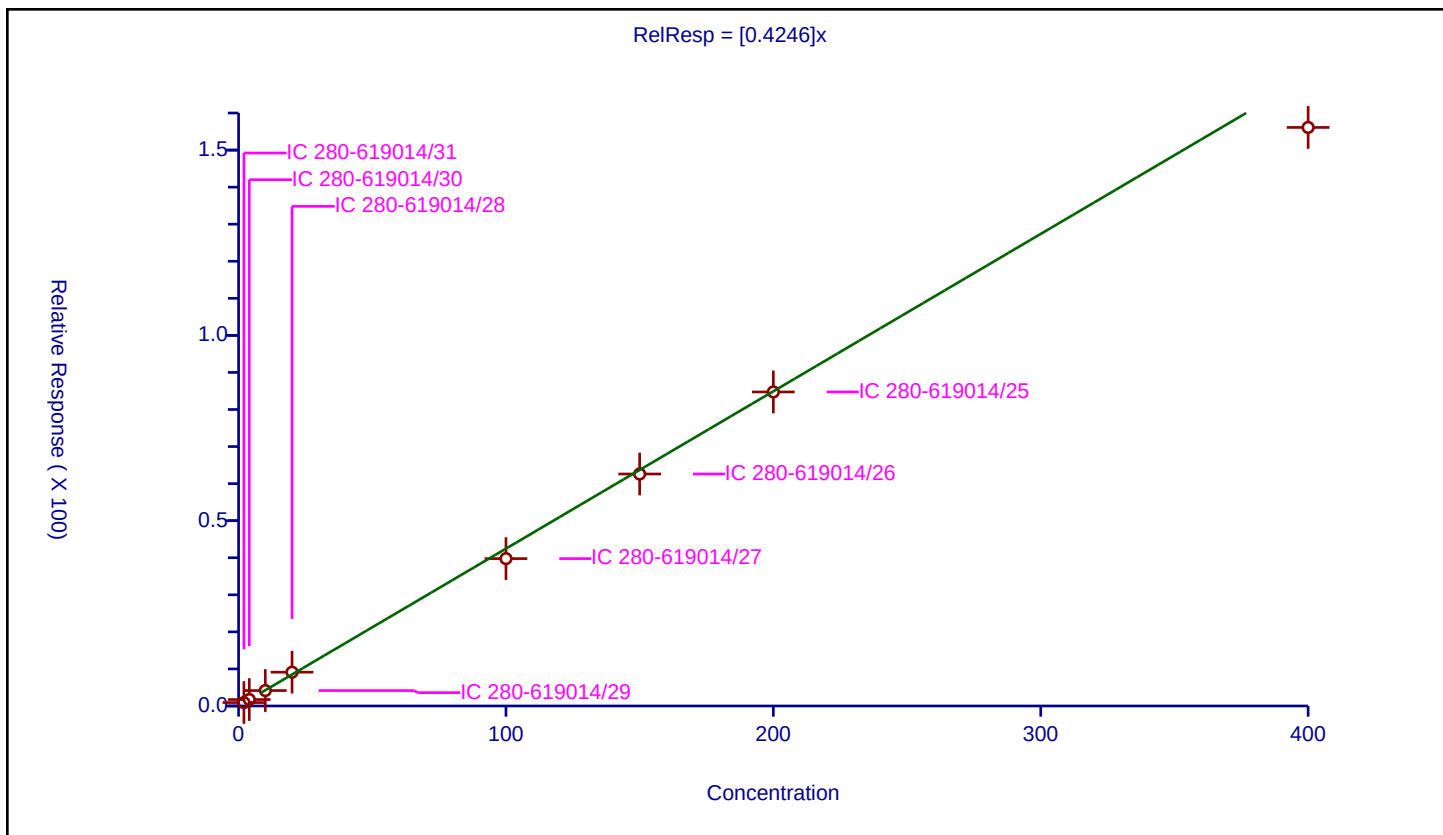
Curve Coefficients

Intercept: 0
 Slope: 0.4246

Error Coefficients

Standard Error: 2000000
 Relative Standard Error: 6.0
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	2.0	0.923588	50.0	1359913.0	0.461794	Y
2	IC 280-619014/30	4.0	1.734539	50.0	1425970.0	0.433635	Y
3	IC 280-619014/29	10.0	4.163863	50.0	1368753.0	0.416386	Y
4	IC 280-619014/28	20.0	9.119149	50.0	1379438.0	0.455957	Y
5	IC 280-619014/27	100.0	39.767294	50.0	1392745.0	0.397673	Y
6	IC 280-619014/26	150.0	62.597795	50.0	1327776.0	0.417319	Y
7	IC 280-619014/25	200.0	84.737181	50.0	1419872.0	0.423686	Y
8	IC 280-619014/24	400.0	156.105278	50.0	1363173.0	0.390263	Y



Calibration

/ Propionitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

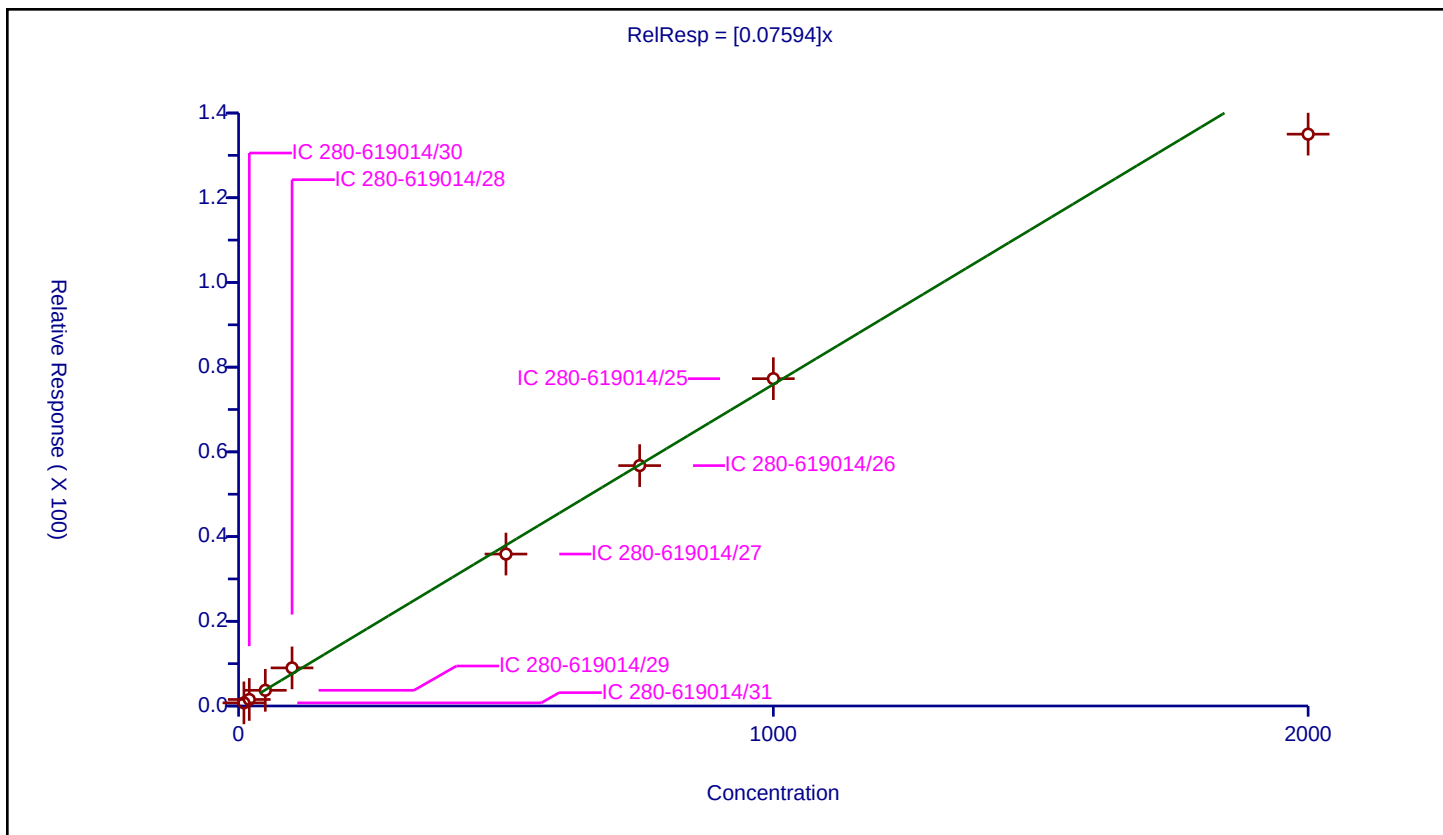
Curve Coefficients

Intercept: 0
 Slope: 0.07594

Error Coefficients

Standard Error: 1760000
 Relative Standard Error: 8.5
 Correlation Coefficient: 0.992
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	10.0	0.742143	50.0	1359913.0	0.074214	Y
2	IC 280-619014/30	20.0	1.539689	50.0	1425970.0	0.076984	Y
3	IC 280-619014/29	50.0	3.70812	50.0	1368753.0	0.074162	Y
4	IC 280-619014/28	100.0	8.99446	50.0	1379438.0	0.089945	Y
5	IC 280-619014/27	500.0	35.87096	50.0	1392745.0	0.071742	Y
6	IC 280-619014/26	750.0	56.756787	50.0	1327776.0	0.075676	Y
7	IC 280-619014/25	1000.0	77.278198	50.0	1419872.0	0.077278	Y
8	IC 280-619014/24	2000.0	135.007406	50.0	1363173.0	0.067504	Y



Calibration

/ Methacrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

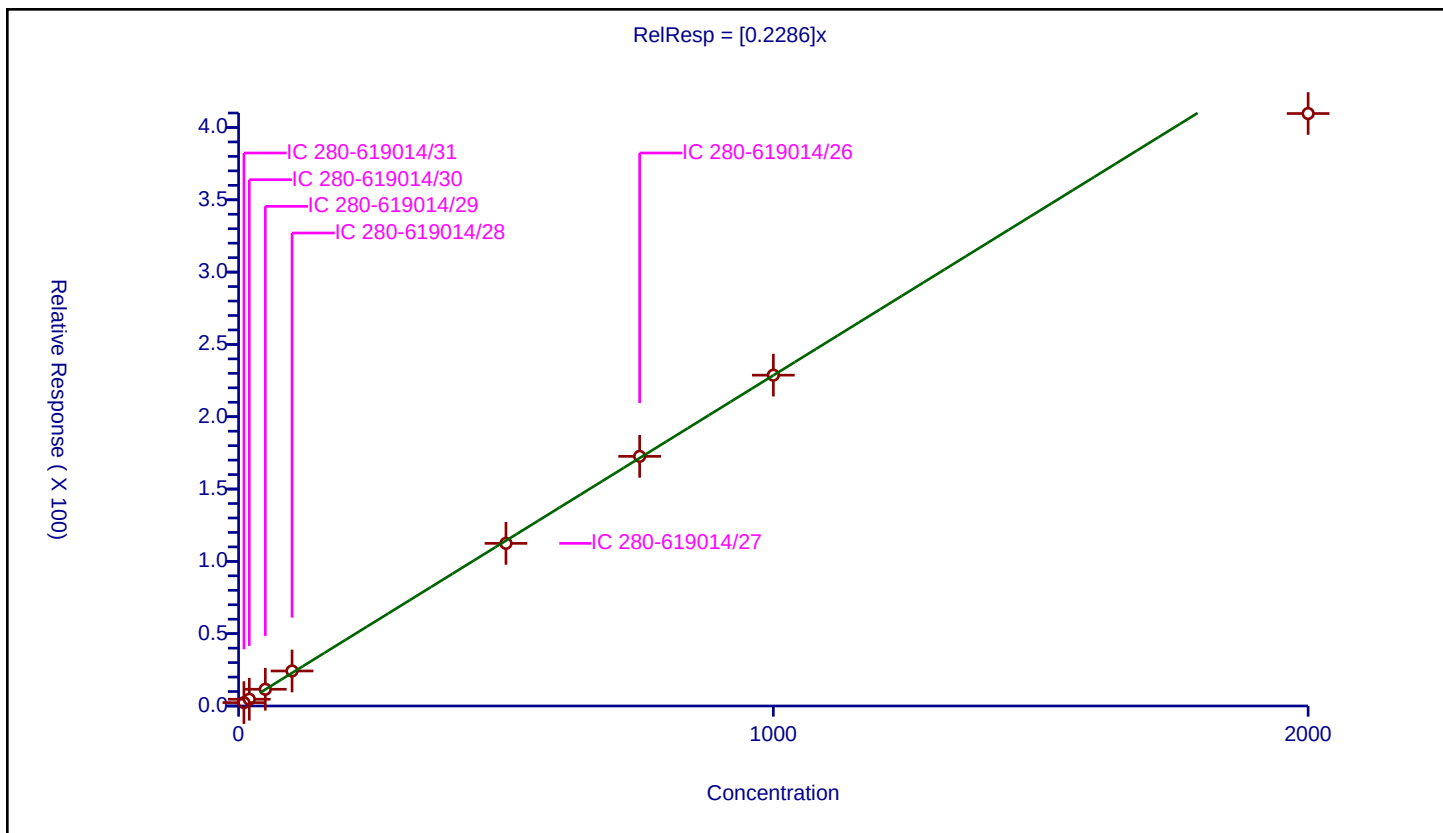
Curve Coefficients

Intercept: 0
 Slope: 0.2286

Error Coefficients

Standard Error: 5320000
 Relative Standard Error: 4.7
 Correlation Coefficient: 0.994
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	10.0	2.331804	50.0	1359913.0	0.23318	Y
2	IC 280-619014/30	20.0	4.672854	50.0	1425970.0	0.233643	Y
3	IC 280-619014/29	50.0	11.563774	50.0	1368753.0	0.231275	Y
4	IC 280-619014/28	100.0	24.226859	50.0	1379438.0	0.242269	Y
5	IC 280-619014/27	500.0	112.445099	50.0	1392745.0	0.22489	Y
6	IC 280-619014/26	750.0	172.600762	50.0	1327776.0	0.230134	Y
7	IC 280-619014/25	1000.0	228.748718	50.0	1419872.0	0.228749	Y
8	IC 280-619014/24	2000.0	409.648262	50.0	1363173.0	0.204824	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

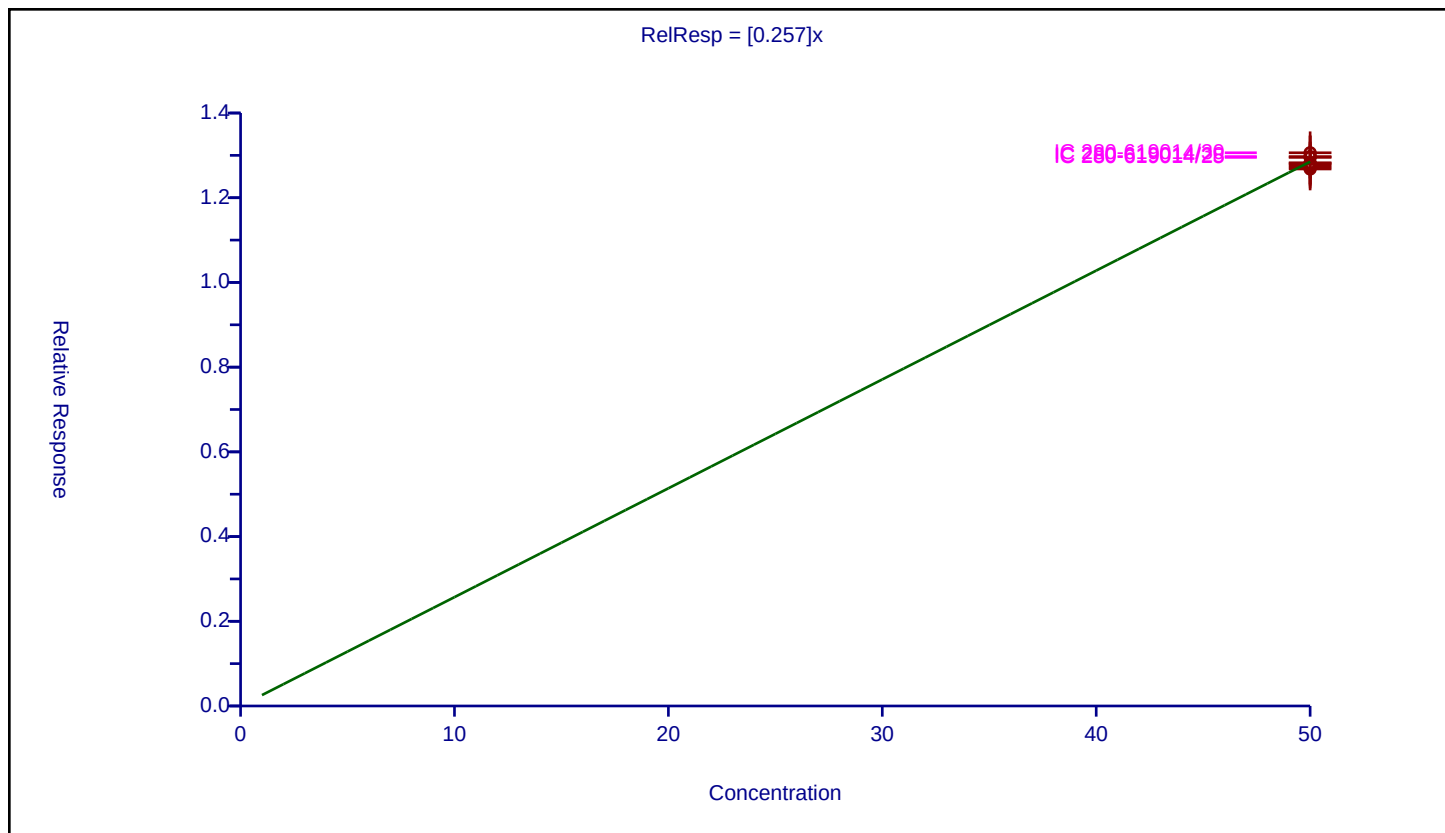
Curve Coefficients

Intercept: 0
Slope: 0.257

Error Coefficients

Standard Error: 379000
Relative Standard Error: 1.0
Correlation Coefficient: 0
Coefficient of Determination (Adjusted): 0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	50.0	12.772582	50.0	1359913.0	0.255452	Y
2	IC 280-619014/30	50.0	13.061179	50.0	1425970.0	0.261224	Y
3	IC 280-619014/29	50.0	12.825104	50.0	1368753.0	0.256502	Y
4	IC 280-619014/28	50.0	12.971442	50.0	1379438.0	0.259429	Y
5	IC 280-619014/27	50.0	12.724153	50.0	1392745.0	0.254483	Y
6	IC 280-619014/26	50.0	12.810331	50.0	1327776.0	0.256207	Y
7	IC 280-619014/25	50.0	12.952435	50.0	1419872.0	0.259049	Y
8	IC 280-619014/24	50.0	12.678618	50.0	1363173.0	0.253572	Y



Calibration

/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

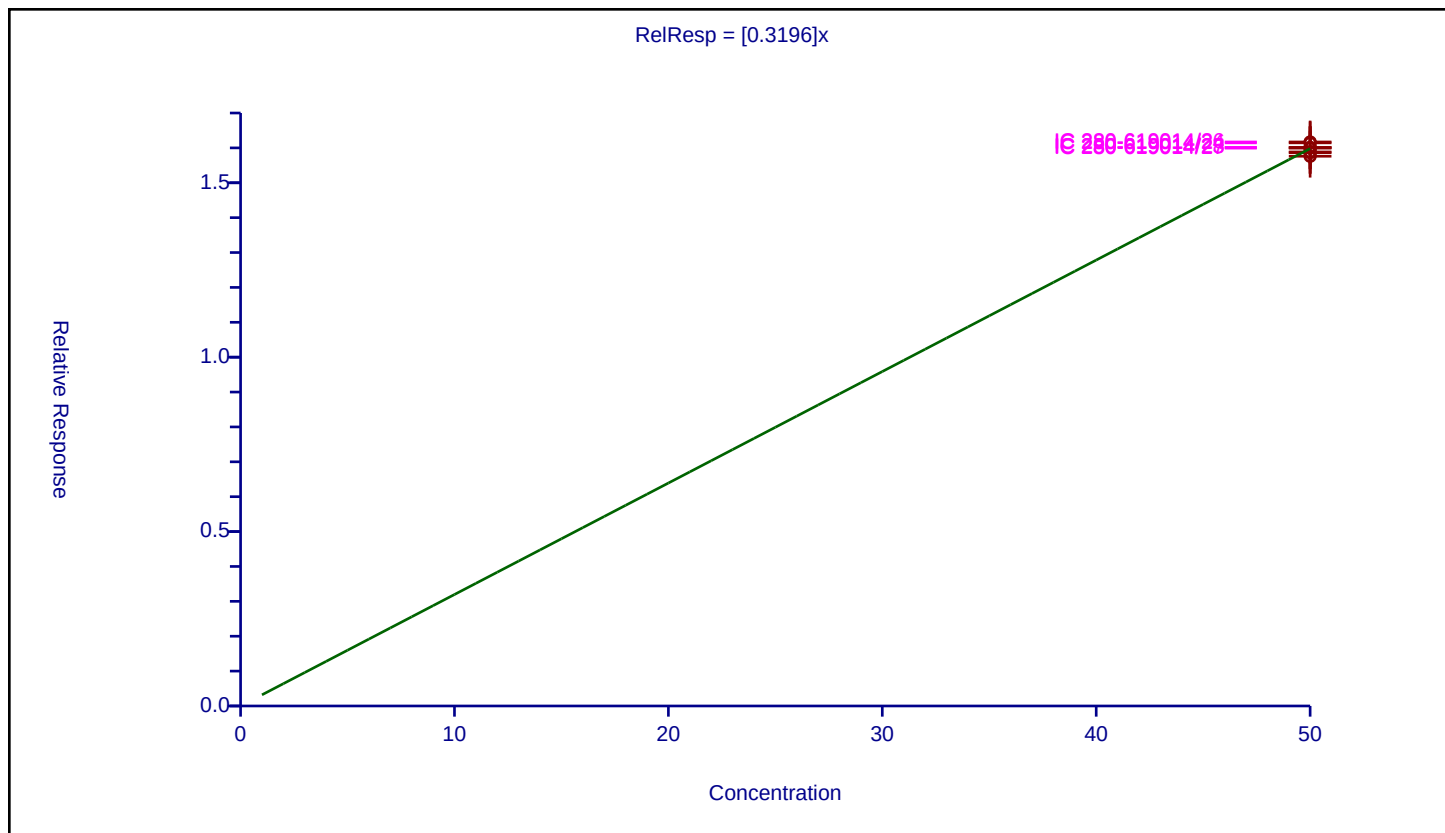
Curve Coefficients

Intercept: 0
 Slope: 0.3196

Error Coefficients

Standard Error: 471000
 Relative Standard Error: 0.9
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	50.0	15.862743	50.0	1359913.0	0.317255	Y
2	IC 280-619014/30	50.0	15.761061	50.0	1425970.0	0.315221	Y
3	IC 280-619014/29	50.0	15.883582	50.0	1368753.0	0.317672	Y
4	IC 280-619014/28	50.0	16.010723	50.0	1379438.0	0.320214	Y
5	IC 280-619014/27	50.0	15.993488	50.0	1392745.0	0.31987	Y
6	IC 280-619014/26	50.0	16.169595	50.0	1327776.0	0.323392	Y
7	IC 280-619014/25	50.0	16.012148	50.0	1419872.0	0.320243	Y
8	IC 280-619014/24	50.0	16.144869	50.0	1363173.0	0.322897	Y



Calibration

/ n-Butanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

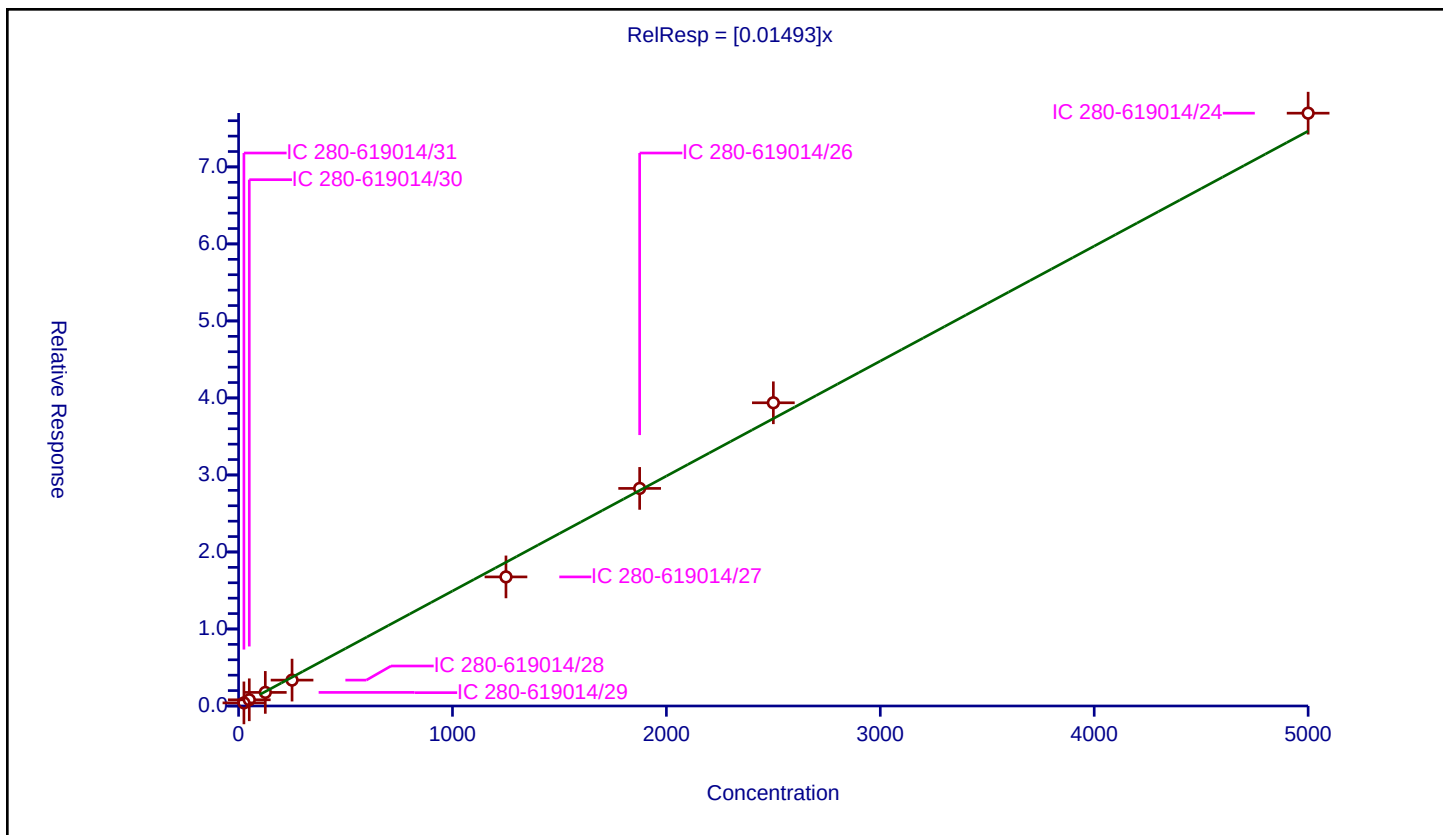
Curve Coefficients

Intercept: 0
Slope: 0.01493

Error Coefficients

Standard Error: 960000
Relative Standard Error: 7.6
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	25.0	0.402857	50.0	1359913.0	0.016114	Y
2	IC 280-619014/30	50.0	0.806574	50.0	1425970.0	0.016131	Y
3	IC 280-619014/29	125.0	1.765366	50.0	1368753.0	0.014123	Y
4	IC 280-619014/28	250.0	3.361079	50.0	1379438.0	0.013444	Y
5	IC 280-619014/27	1250.0	16.761503	50.0	1392745.0	0.013409	Y
6	IC 280-619014/26	1875.0	28.255557	50.0	1327776.0	0.01507	Y
7	IC 280-619014/25	2500.0	39.374465	50.0	1419872.0	0.01575	Y
8	IC 280-619014/24	5000.0	76.980361	50.0	1363173.0	0.015396	Y



Calibration

/ Tert-amyl methyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

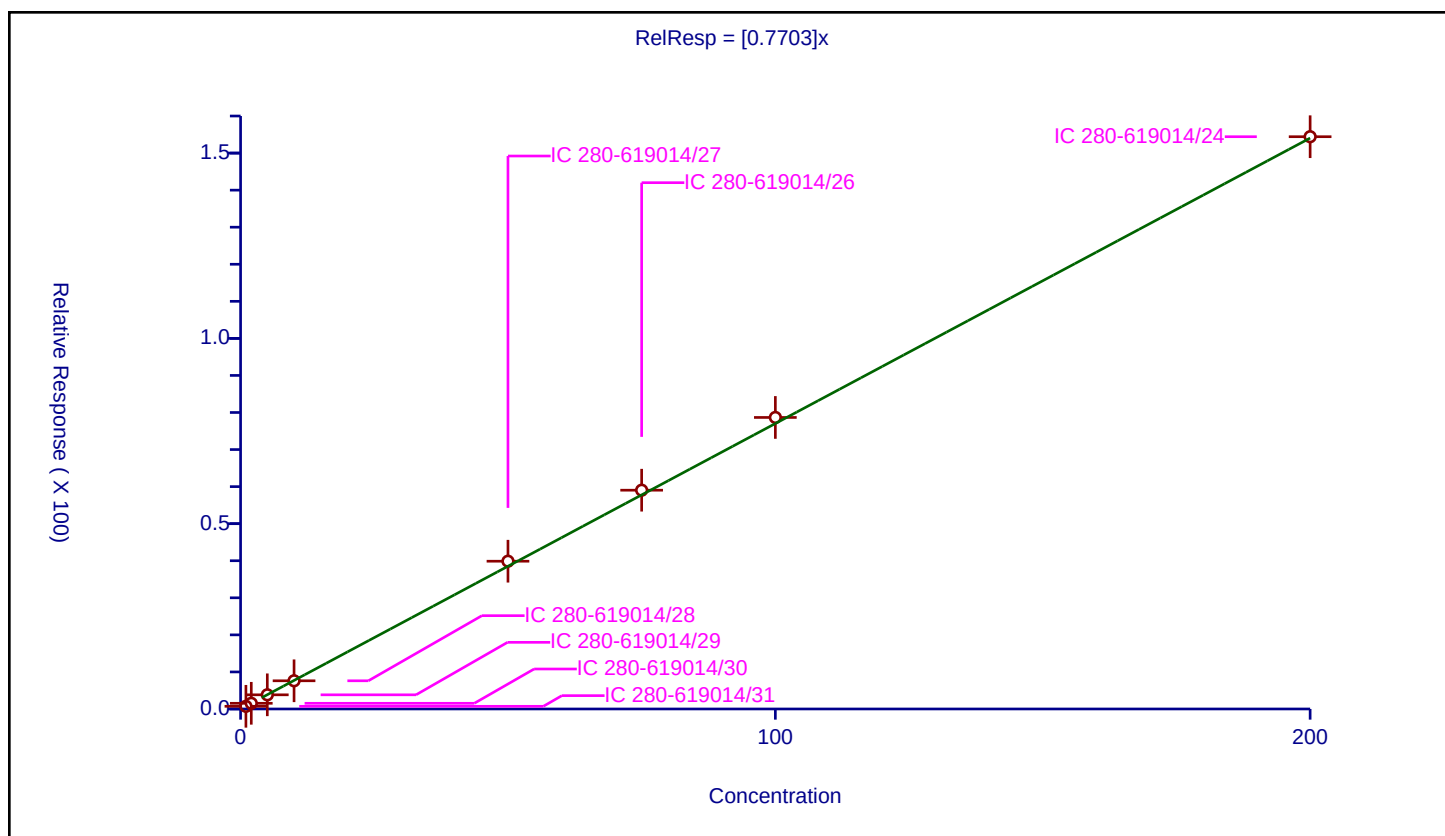
Curve Coefficients

Intercept: 0
Slope: 0.7703

Error Coefficients

Standard Error: 1940000
Relative Standard Error: 2.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	1.0	0.726333	50.0	1359913.0	0.726333	Y
2	IC 280-619014/30	2.0	1.534534	50.0	1425970.0	0.767267	Y
3	IC 280-619014/29	5.0	3.821508	50.0	1368753.0	0.764302	Y
4	IC 280-619014/28	10.0	7.609113	50.0	1379438.0	0.760911	Y
5	IC 280-619014/27	50.0	39.872662	50.0	1392745.0	0.797453	Y
6	IC 280-619014/26	75.0	59.032472	50.0	1327776.0	0.7871	Y
7	IC 280-619014/25	100.0	78.665049	50.0	1419872.0	0.78665	Y
8	IC 280-619014/24	200.0	154.417781	50.0	1363173.0	0.772089	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

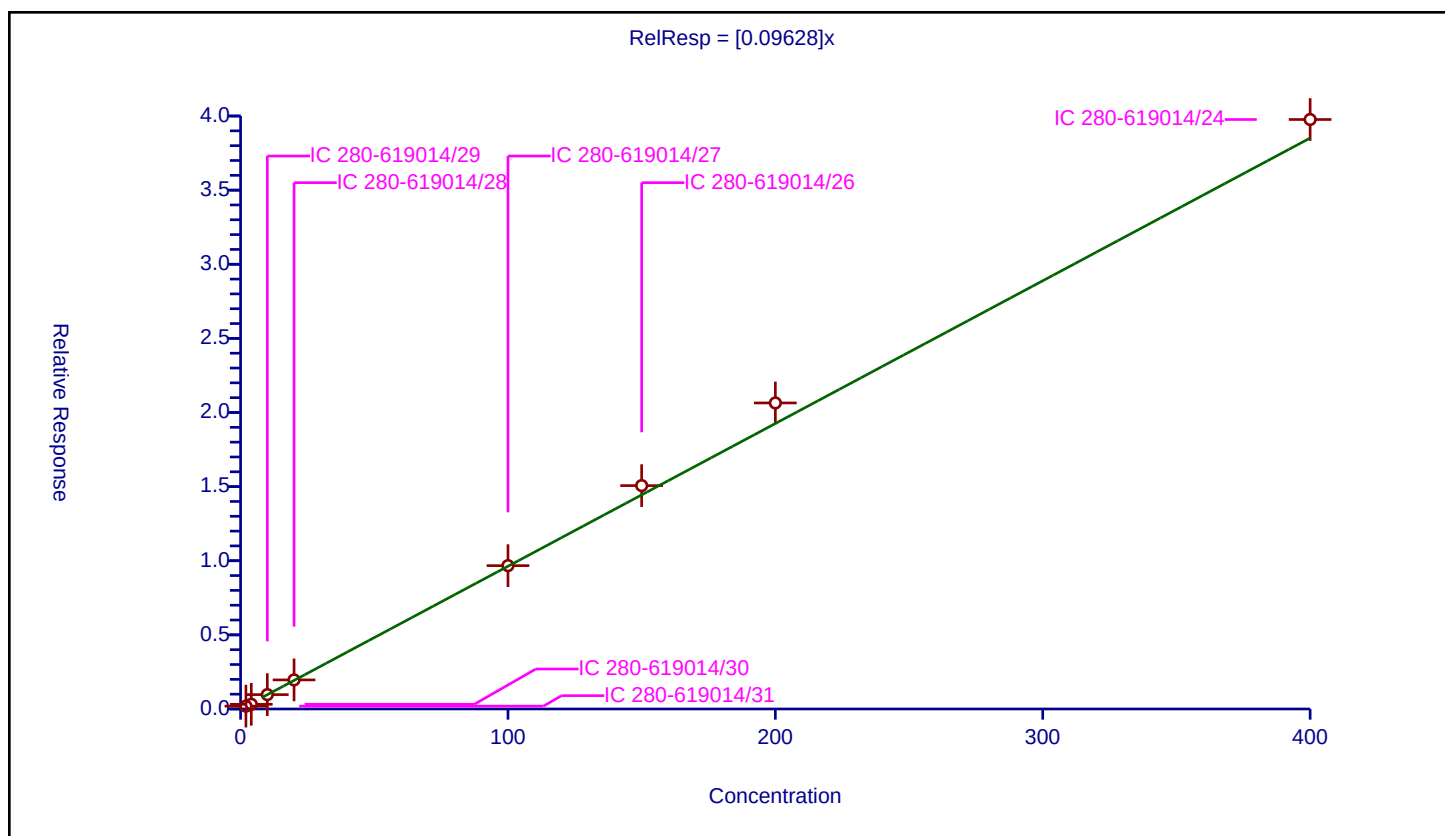
Curve Coefficients

Intercept: 0
 Slope: 0.09628

Error Coefficients

Standard Error: 501000
 Relative Standard Error: 7.5
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	2.0	0.192292	50.0	1359913.0	0.096146	Y
2	IC 280-619014/30	4.0	0.317784	50.0	1425970.0	0.079446	Y
3	IC 280-619014/29	10.0	0.967961	50.0	1368753.0	0.096796	Y
4	IC 280-619014/28	20.0	1.962067	50.0	1379438.0	0.098103	Y
5	IC 280-619014/27	100.0	9.669537	50.0	1392745.0	0.096695	Y
6	IC 280-619014/26	150.0	15.068317	50.0	1327776.0	0.100455	Y
7	IC 280-619014/25	200.0	20.643903	50.0	1419872.0	0.10322	Y
8	IC 280-619014/24	400.0	39.764028	50.0	1363173.0	0.09941	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

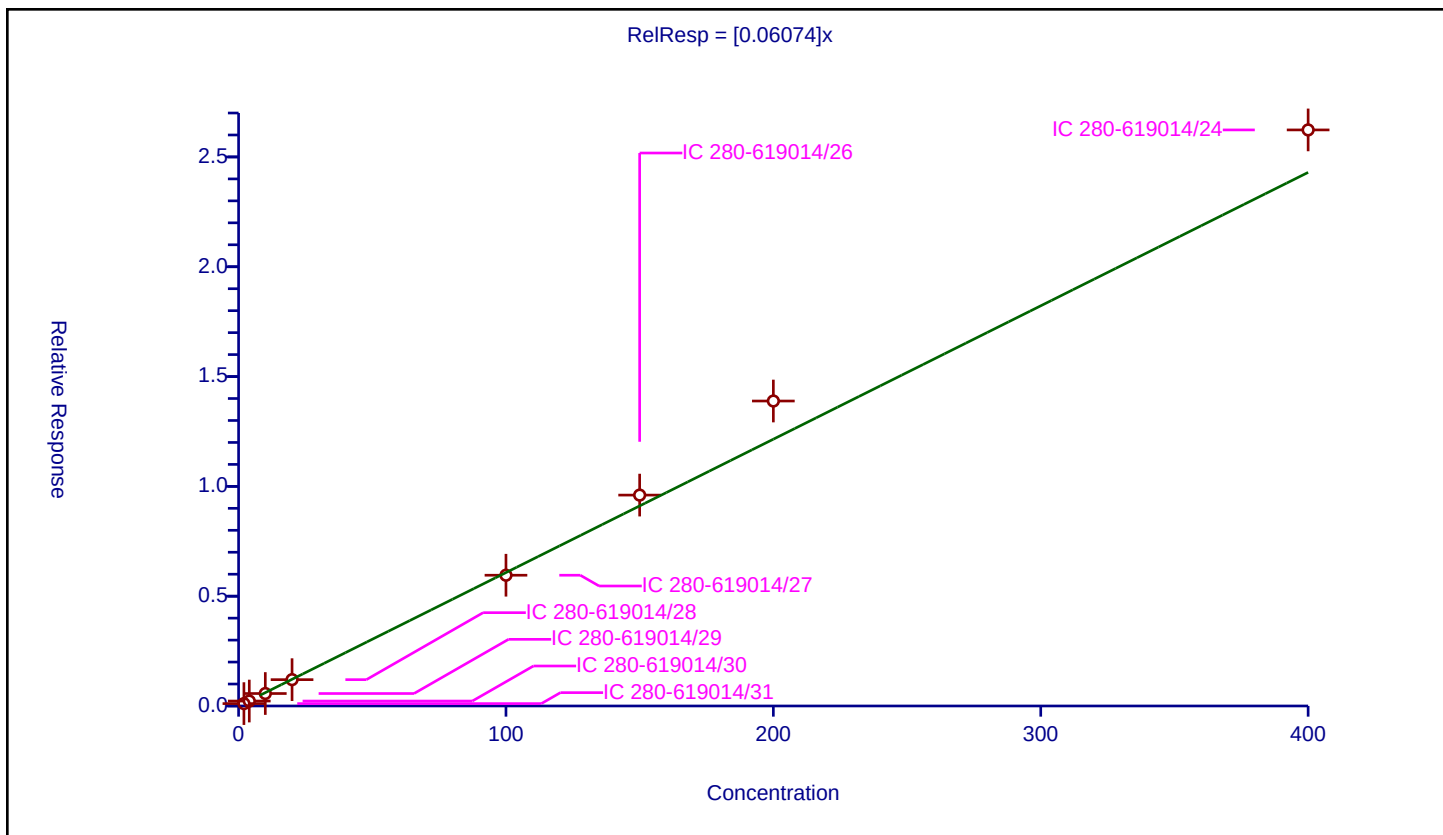
Curve Coefficients

Intercept: 0
 Slope: 0.06074

Error Coefficients

Standard Error: 330000
 Relative Standard Error: 8.5
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	2.0	0.108757	50.0	1359913.0	0.054378	Y
2	IC 280-619014/30	4.0	0.225075	50.0	1425970.0	0.056269	Y
3	IC 280-619014/29	10.0	0.567195	50.0	1368753.0	0.05672	Y
4	IC 280-619014/28	20.0	1.199546	50.0	1379438.0	0.059977	Y
5	IC 280-619014/27	100.0	5.9545	50.0	1392745.0	0.059545	Y
6	IC 280-619014/26	150.0	9.602599	50.0	1327776.0	0.064017	Y
7	IC 280-619014/25	200.0	13.885864	50.0	1419872.0	0.069429	Y
8	IC 280-619014/24	400.0	26.22998	50.0	1363173.0	0.065575	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

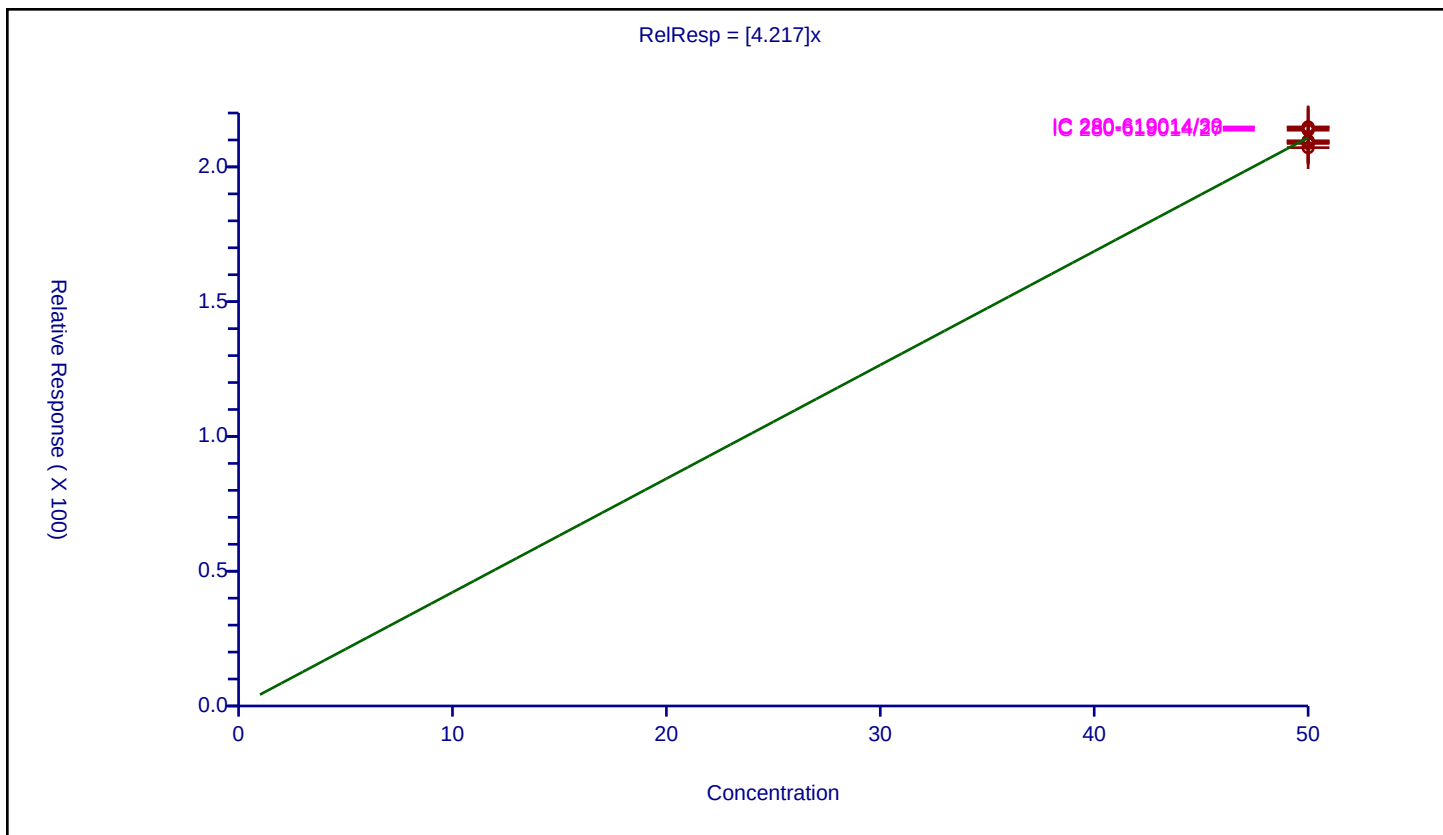
Curve Coefficients

Intercept: 0
 Slope: 4.217

Error Coefficients

Standard Error: 1560000
 Relative Standard Error: 1.4
 Correlation Coefficient: 0
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	50.0	208.919305	50.0	349192.0	4.178386	Y
2	IC 280-619014/30	50.0	214.834778	50.0	344990.0	4.296696	Y
3	IC 280-619014/29	50.0	208.737743	50.0	353272.0	4.174755	Y
4	IC 280-619014/28	50.0	214.448482	50.0	337115.0	4.28897	Y
5	IC 280-619014/27	50.0	213.614803	50.0	338580.0	4.272296	Y
6	IC 280-619014/26	50.0	209.580927	50.0	330730.0	4.191619	Y
7	IC 280-619014/25	50.0	207.15163	50.0	366371.0	4.143033	Y
8	IC 280-619014/24	50.0	209.653125	50.0	340180.0	4.193062	Y



Calibration

/ cis-1,4-Dichloro-2-butene

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

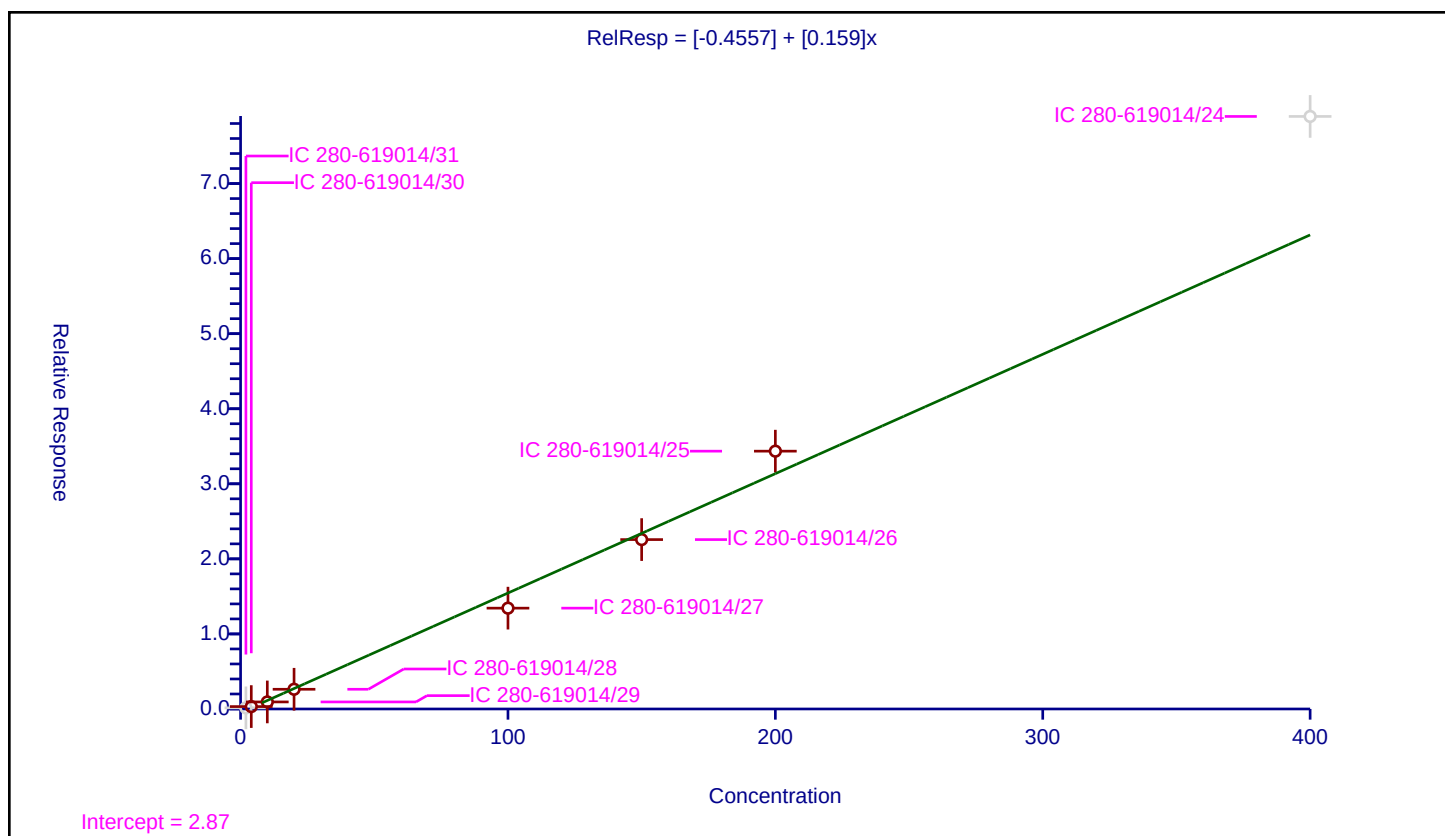
Curve Coefficients

Intercept: -0.4557
Slope: 0.159

Error Coefficients

Standard Error: 247000
Relative Standard Error: 15.1
Correlation Coefficient: 0.981
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	2.0	0.152034	50.0	571581.0	0.076017	N
2	IC 280-619014/30	4.0	0.321123	50.0	556640.0	0.080281	Y
3	IC 280-619014/29	10.0	0.939236	50.0	571262.0	0.093924	Y
4	IC 280-619014/28	20.0	2.626482	50.0	525608.0	0.131324	Y
5	IC 280-619014/27	100.0	13.433402	50.0	552455.0	0.134334	Y
6	IC 280-619014/26	150.0	22.568755	50.0	555631.0	0.150458	Y
7	IC 280-619014/25	200.0	34.349579	50.0	580109.0	0.171748	Y
8	IC 280-619014/24	400.0	78.943495	50.0	521086.0	0.197359	N



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

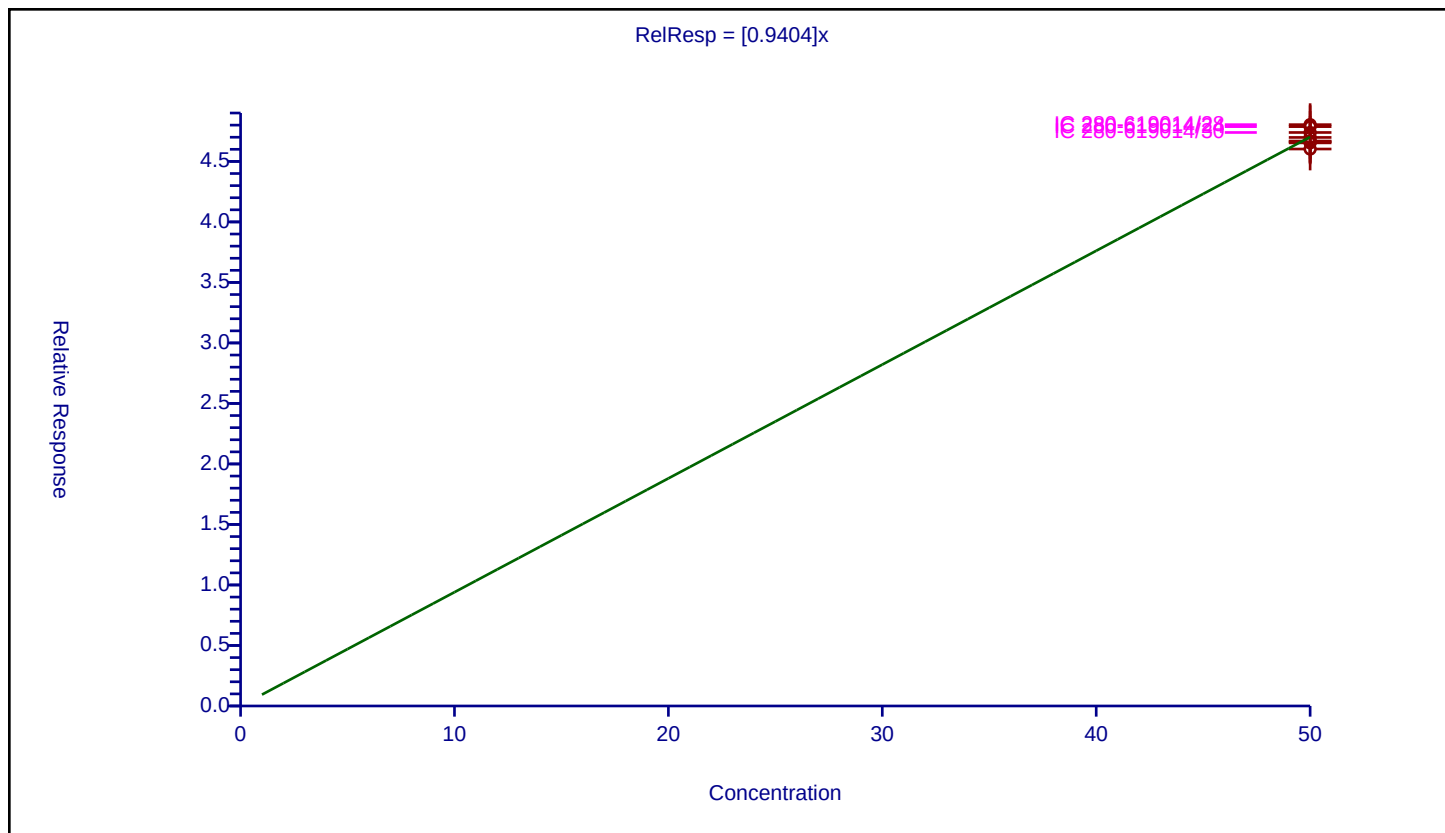
Curve Coefficients

Intercept: 0
Slope: 0.9404

Error Coefficients

Standard Error: 557000
Relative Standard Error: 1.5
Correlation Coefficient: 0
Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	50.0	46.6262	50.0	571581.0	0.932524	Y
2	IC 280-619014/30	50.0	47.391851	50.0	556640.0	0.947837	Y
3	IC 280-619014/29	50.0	46.025029	50.0	571262.0	0.920501	Y
4	IC 280-619014/28	50.0	48.039033	50.0	525608.0	0.960781	Y
5	IC 280-619014/27	50.0	46.531844	50.0	552455.0	0.930637	Y
6	IC 280-619014/26	50.0	46.68314	50.0	555631.0	0.933663	Y
7	IC 280-619014/25	50.0	46.982205	50.0	580109.0	0.939644	Y
8	IC 280-619014/24	50.0	47.874439	50.0	521086.0	0.957489	Y



Calibration

/ 1,2,3-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

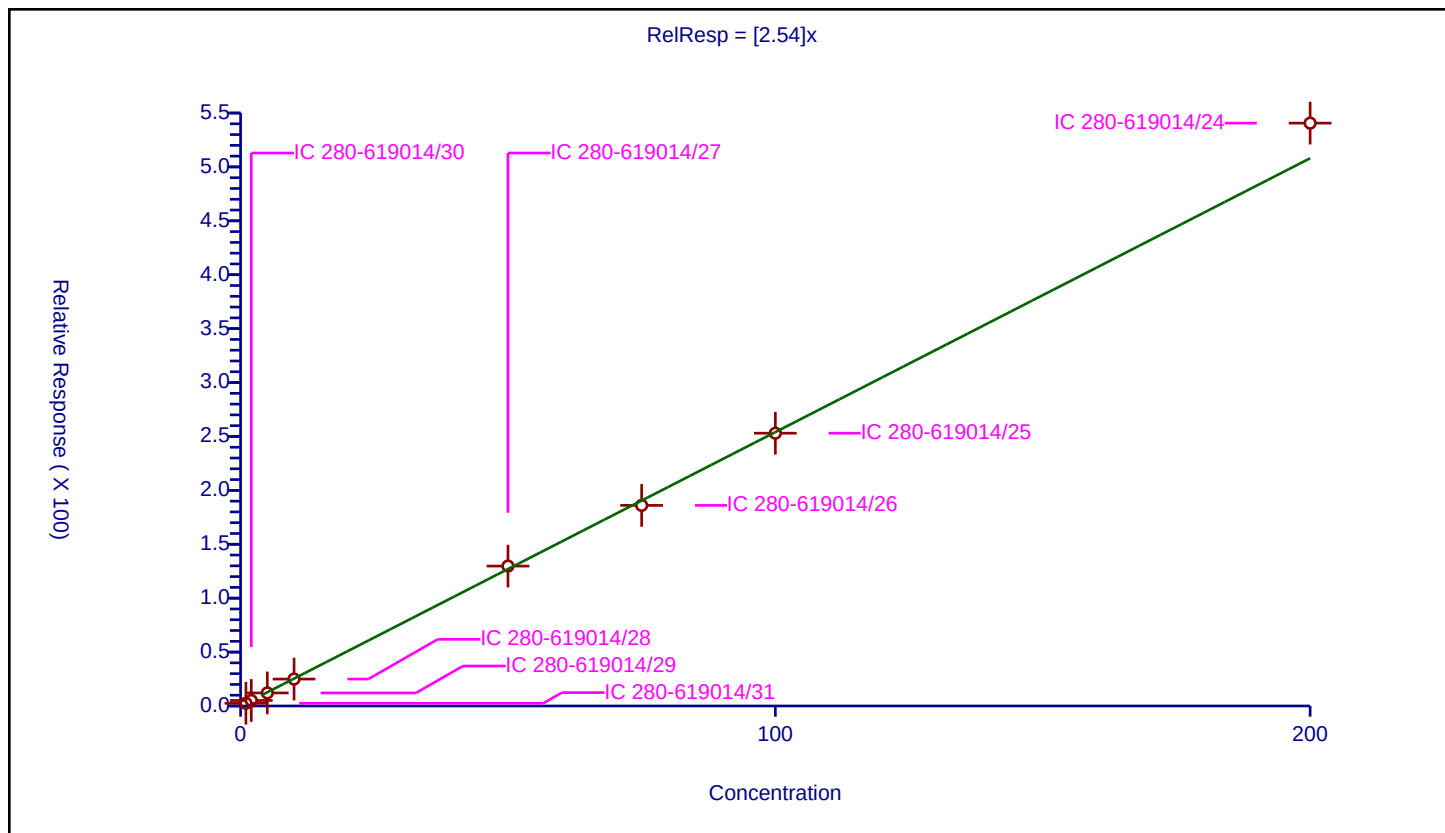
Curve Coefficients

Intercept: 0
 Slope: 2.54

Error Coefficients

Standard Error: 2590000
 Relative Standard Error: 3.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	1.0	2.536998	50.0	571581.0	2.536998	Y
2	IC 280-619014/30	2.0	5.115964	50.0	556640.0	2.557982	Y
3	IC 280-619014/29	5.0	12.103728	50.0	571262.0	2.420746	Y
4	IC 280-619014/28	10.0	24.961568	50.0	525608.0	2.496157	Y
5	IC 280-619014/27	50.0	129.757718	50.0	552455.0	2.595154	Y
6	IC 280-619014/26	75.0	186.050454	50.0	555631.0	2.480673	Y
7	IC 280-619014/25	100.0	253.024776	50.0	580109.0	2.530248	Y
8	IC 280-619014/24	200.0	540.631681	50.0	521086.0	2.703158	Y



Calibration

/ 1,3,5-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

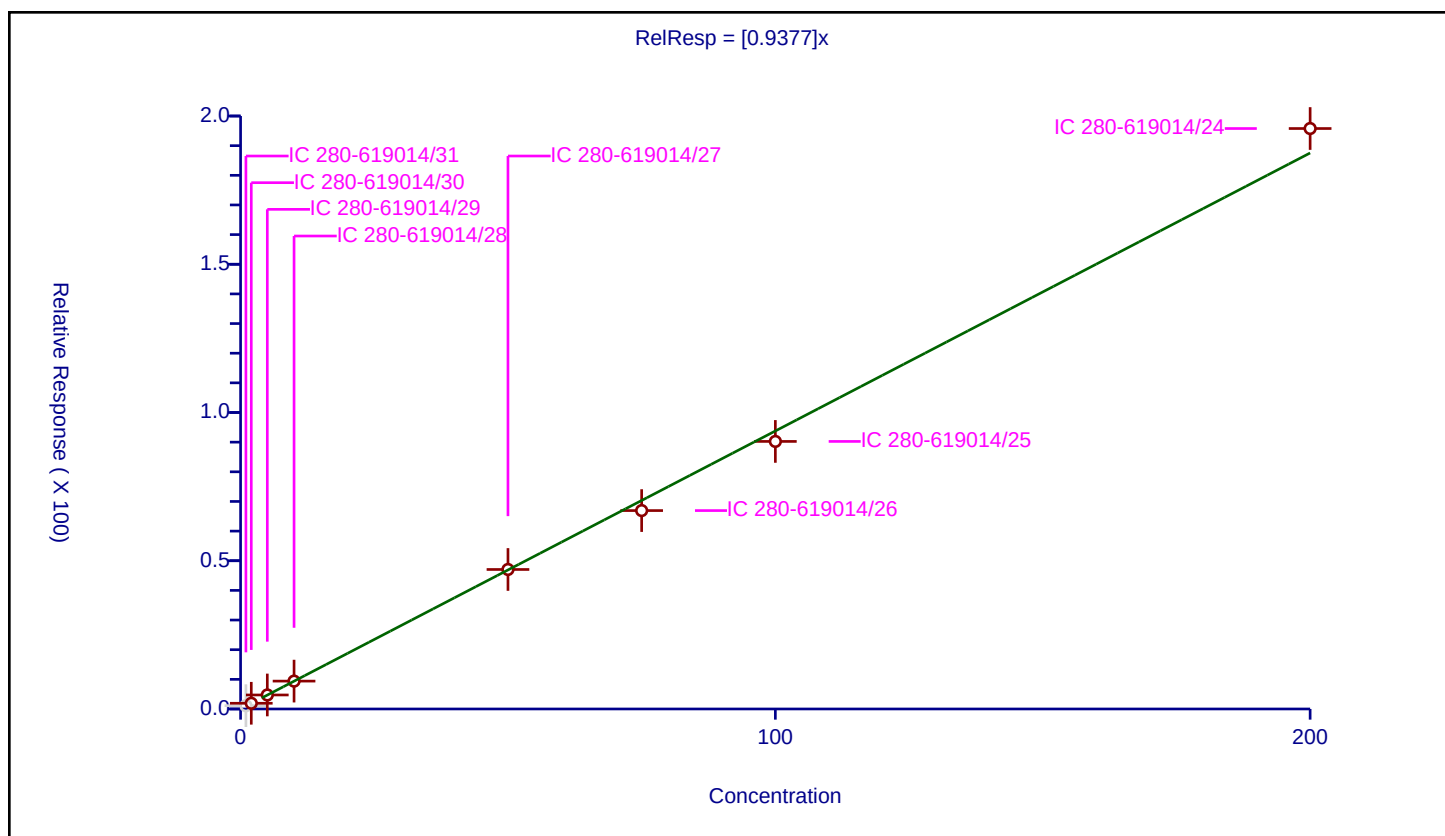
Curve Coefficients

Intercept: 0
Slope: 0.9377

Error Coefficients

Standard Error: 1010000
Relative Standard Error: 3.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-619014/31	1.0	1.123813	50.0	571581.0	1.123813	N
2	IC 280-619014/30	2.0	1.926919	50.0	556640.0	0.963459	Y
3	IC 280-619014/29	5.0	4.726115	50.0	571262.0	0.945223	Y
4	IC 280-619014/28	10.0	9.402444	50.0	525608.0	0.940244	Y
5	IC 280-619014/27	50.0	47.055688	50.0	552455.0	0.941114	Y
6	IC 280-619014/26	75.0	66.919502	50.0	555631.0	0.89226	Y
7	IC 280-619014/25	100.0	90.240369	50.0	580109.0	0.902404	Y
8	IC 280-619014/24	200.0	195.784381	50.0	521086.0	0.978922	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 570124
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/29/2022 17:08 Calibration End Date: 03/29/2022 19:40 Calibration ID: 63478

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-570124/14	R3108.D
Level 2	STD2 280-570124/15	R3109.D
Level 3	STD5 280-570124/16	R3110.D
Level 4	STD10 280-570124/17	R3111.D
Level 5	STD50 280-570124/18	R3112.D
Level 6	STD75 280-570124/19	R3113.D
Level 7	STD100 280-570124/20	R3114.D
Level 8	STD200 280-570124/21	R3115.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Ethanol	++++ 0.0025	0.0035 0.0021	0.0027 0.0025	0.0026	0.0023	Lin2	0.131 8	0.002 3							0.9950		0.9900
Isopropyl alcohol	++++ 0.0135	0.0135 0.0123	0.0120 0.0145	0.0121	0.0116	Ave		0.012 8				8.1	15.0				
Acetonitrile	0.0367 0.0303	0.0276 0.0268	0.0282 0.0308	0.0294	0.0285	Ave		0.029 8				10.4	15.0				
Isopropyl ether	0.1618 0.1976	0.1472 0.1806	0.1509 0.2039	0.1663	0.1892	Ave		0.174 7				12.2	15.0				
Chloroprene	0.2876 0.3681	0.2645 0.3326	0.2954 0.3671	0.3398	0.3703	Ave		0.328 2				12.5	15.0				
Tert-butyl ethyl ether	0.5981 0.6679	0.4981 0.6190	0.5392 0.6981	0.5886	0.6402	Ave		0.606 1				10.8	15.0				
Ethyl acetate	0.2029 0.2008	0.1588 0.1913	0.1713 0.2136	0.1834	0.1959	Ave		0.189 7				9.4	15.0				
Propionitrile	0.0449 0.0365	0.0309 0.0337	0.0333 0.0364	0.0346	0.0363	Ave		0.035 8				11.6	15.0				
Methacrylonitrile	0.1654 0.1451	0.1279 0.1325	0.1351 0.1403	0.1412	0.1435	Ave		0.141 4				8.0	15.0				
Tert-amyl methyl ether	0.5523 0.6000	0.4555 0.6085	0.4883 0.6356	0.5139	0.5780	Ave		0.554 0				11.4	15.0				
n-Butanol	0.0016 0.0064	0.0023 0.0068	0.0035 0.0072	0.0043	0.0060	Lin1	-0.22 6	0.006 9							0.9940		0.9900
Methyl methacrylate	0.0567 0.0688	0.0443 0.0679	0.0563 0.0703	0.0576	0.0674	Ave		0.061 2				14.7	15.0				
2-Nitropropane	0.0682 0.0561	0.0464 0.0565	0.0478 0.0600	0.0466	0.0539	Ave		0.054 4				13.9	15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 570124

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2022 17:08 Calibration End Date: 03/29/2022 19:40 Calibration ID: 63478

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
cis-1,4-Dichloro-2-butene	0.2008 0.2014	0.1335 0.2019	0.1433 0.2118	0.1516	0.1908	Lin1	-0.22 1	0.204 q							0.9970		0.9900
1,2,3-Trimethylbenzene	2.5604 2.4216	1.9025 2.3941	2.0266 2.4257	2.2273	2.4167	Ave		2.296 q				9.9		15.0			
1,3,5-Trichlorobenzene	0.8365 0.8631	0.6837 0.8499	0.7291 0.8815	0.7892	0.8453	Ave		0.809 r				8.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 570124

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2022 17:08 Calibration End Date: 03/29/2022 19:40 Calibration ID: 63478

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-570124/14	R3108.D
Level 2	STD2 280-570124/15	R3109.D
Level 3	STD5 280-570124/16	R3110.D
Level 4	STD10 280-570124/17	R3111.D
Level 5	STD50 280-570124/18	R3112.D
Level 6	STD75 280-570124/19	R3113.D
Level 7	STD100 280-570124/20	R3114.D
Level 8	STD200 280-570124/21	R3115.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethanol	FB	Lin2	+++++ 502943	16601 567998	33189 1368163	66279	295752	+++++ 4500	120 6000	300 12000	600	3000
Isopropyl alcohol	FB	Ave	+++++ 444707	10755 547594	24656 1314495	50624	249555	+++++ 750	20.0 1000	50.0 2000	100	500
Acetonitrile	FB	Ave	15096 998788	21981 1193626	57880 2794599	122451	610630	10.0 750	20.0 1000	50.0 2000	100	500
Isopropyl ether	FB	Ave	6658 651074	11742 803240	30972 1850939	69334	405738	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Chloroprene	FB	Ave	11838 1213255	21097 1479363	60638 3332699	141658	794097	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Tert-butyl ethyl ether	FB	Ave	24617 2201029	39727 2753175	110684 6337238	245364	1372894	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Ethyl acetate	FB	Ave	16701 1323466	25328 1701576	70326 3877499	152893	840000	2.00 150	4.00 200	10.0 400	20.0	100
Propionitrile	FB	Ave	18486 1202046	24631 1499374	68271 3302329	144362	778014	10.0 750	20.0 1000	50.0 2000	100	500
Methacrylonitrile	FB	Ave	68084 4780750	101992 5893781	277327 12734382	588613	3076234	10.0 750	20.0 1000	50.0 2000	100	500
Tert-amyl methyl ether	FB	Ave	22732 1977515	36330 2706747	100231 5769973	214260	1239413	1.00 75.0	2.00 100	5.00 200	10.0	50.0
n-Butanol	FB	Lin1	1665 524904	4551 750978	18163 1636921	45164	321065	25.0 1875	50.0 2500	125 5000	250	1250
Methyl methacrylate	FB	Ave	4670 453327	7068 604327	23129 1275788	48037	288880	2.00 150	4.00 200	10.0 400	20.0	100
2-Nitropropane	FB	Ave	5616 370035	7396 502540	19635 1089095	38816	231231	2.00 150	4.00 200	10.0 400	20.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 570124

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2022 17:08 Calibration End Date: 03/29/2022 19:40 Calibration ID: 63478

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
cis-1,4-Dichloro-2-butene	DCBd 4	Lin1	6804	8755	23745	50149	327239	2.00	4.00	10.0	20.0	100
			531270	725683	1573985			150	200	400		
1,2,3-Trimethylbenzene	DCBd 4	Ave	43390	62399	167949	368310	2072234	1.00	2.00	5.00	10.0	50.0
			3194067	4302417	9012497			75.0	100	200		
1,3,5-Trichlorobenzene	DCBd 4	Ave	14175	22423	60420	130505	724840	1.00	2.00	5.00	10.0	50.0
			1138481	1527308	3275032			75.0	100	200		

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3108.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 29-Mar-2022 17:08:30 ALS Bottle#: 1 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD1
 Misc. Info.: 280-0109642-014
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:36 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 18:30:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2057822	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	504659	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	847314	50.0	50.0	
13 Ethylene oxide	43	2.101	2.097	0.004	99	44741	100.0	105.9	
18 Ethanol	45	2.525	2.525	0.000	95	8790	60.0	34.8	
20 Propene oxide	58	2.660	2.656	0.004	96	149328	100.0	95.5	
25 Isopropyl alcohol	45	2.903	2.903	0.000	59	8313	10.0	15.8	
28 Acetonitrile	41	3.020	3.016	0.004	97	15096	10.0	12.3	
41 Isopropyl ether	87	3.657	3.657	0.000	92	6658	1.00	0.9261	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	91	11838	1.00	0.8764	
44 Tert-butyl ethyl ether	59	3.908	3.912	-0.004	95	24617	1.00	0.9868	M
46 Ethyl acetate	43	4.047	4.050	-0.003	97	16701	2.00	2.14	
49 Propionitrile	54	4.080	4.080	0.000	97	18486	10.0	12.5	
51 Methacrylonitrile	41	4.189	4.189	0.000	93	68084	10.0	11.7	
64 Tert-amyl methyl ether	73	4.752	4.759	-0.007	84	22732	1.00	1.00	M
66 n-Butanol	56	5.051	5.048	0.003	44	1665	25.0	38.9	
71 Methyl methacrylate	100	5.385	5.381	0.004	93	4670	2.00	1.86	
75 2-Nitropropane	41	5.730	5.734	-0.004	97	5616	2.00	2.51	
86 Tetrahydrothiophene	60	6.877	6.884	-0.007	7	2978	2.00	2.90	
98 cis-1,4-Dichloro-2-butene	53	8.384	8.380	0.004	0	6804	2.00	3.04	
115 1,2,3-Trimethylbenzene	105	9.673	9.670	0.003	98	43390	1.00	1.11	
119 1,3,5-Trichlorobenzene	180	10.970	10.970	0.000	95	14175	1.00	1.03	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MV-Supp A_00064

Amount Added: 1.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:36

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3108.D

Injection Date: 29-Mar-2022 17:08:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD1

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

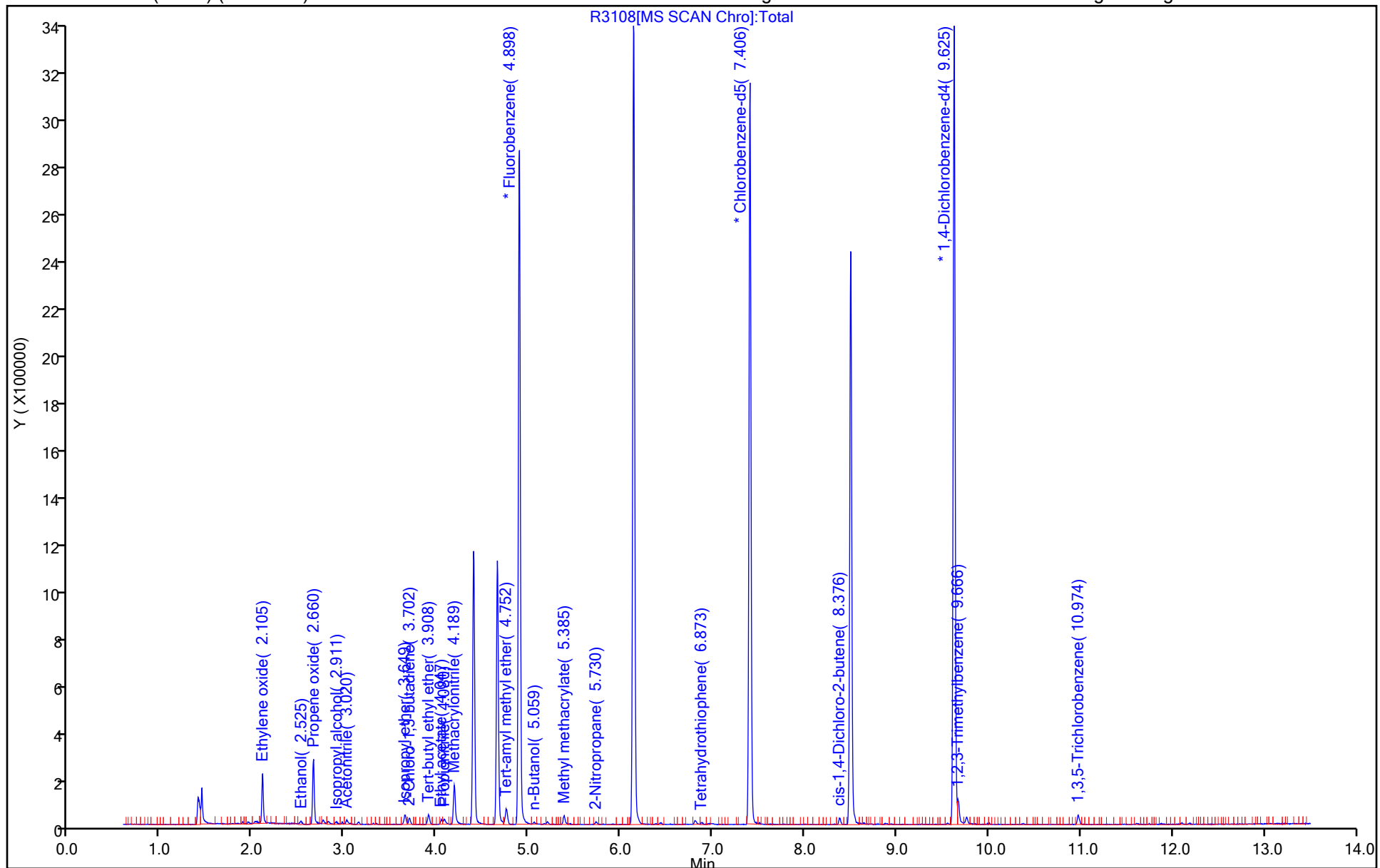
ALS Bottle#: 1

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3108.D

Injection Date: 29-Mar-2022 17:08:30

Instrument ID: VMS_R1

Lims ID: STD1

Client ID:

Operator ID: peppinga

ALS Bottle#:

1

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

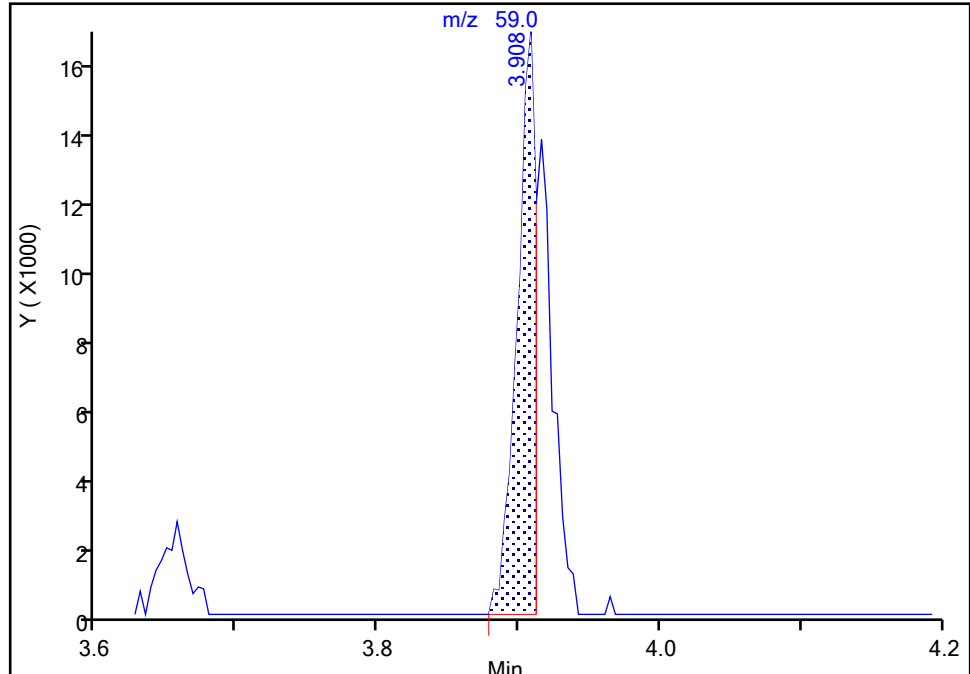
MS SCAN

44 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

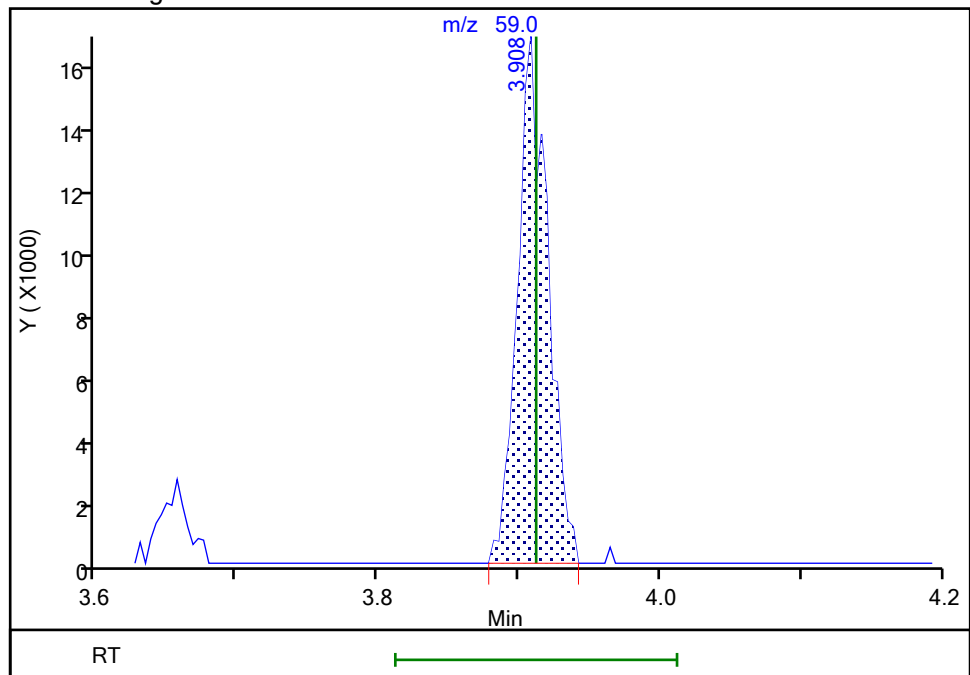
RT: 3.91
Area: 15268
Amount: 0.995549
Amount Units: ug/l

Processing Integration Results



RT: 3.91
Area: 24617
Amount: 0.986790
Amount Units: ug/l

Manual Integration Results



Reviewer: peppinga, 29-Mar-2022 18:29:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3108.D

Injection Date: 29-Mar-2022 17:08:30

Instrument ID: VMS_R1

Lims ID: STD1

Client ID:

Operator ID: peppinga

ALS Bottle#:

1

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

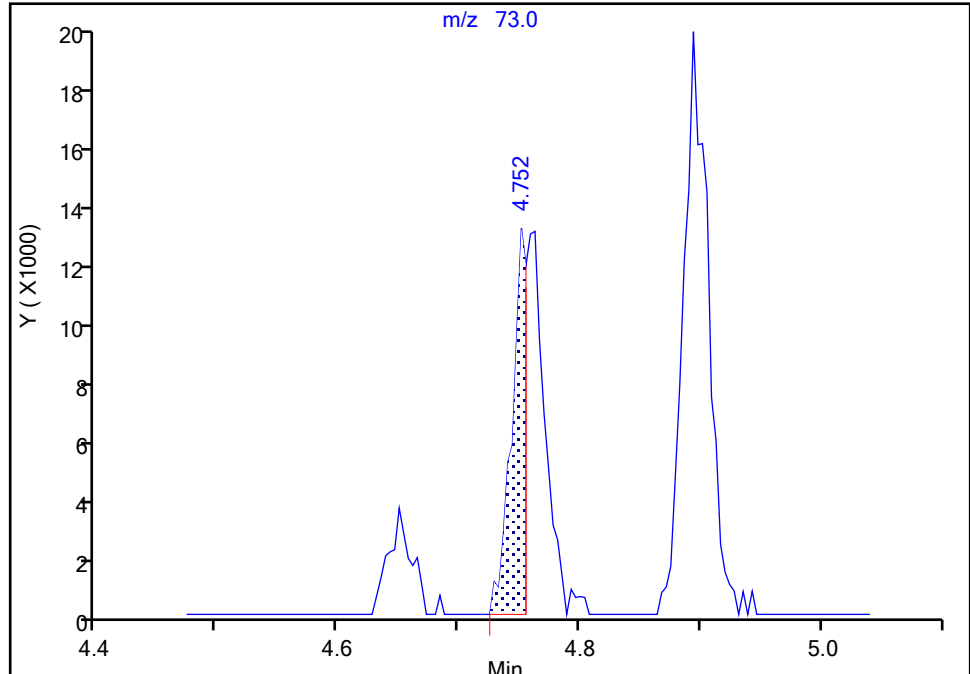
MS SCAN

64 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

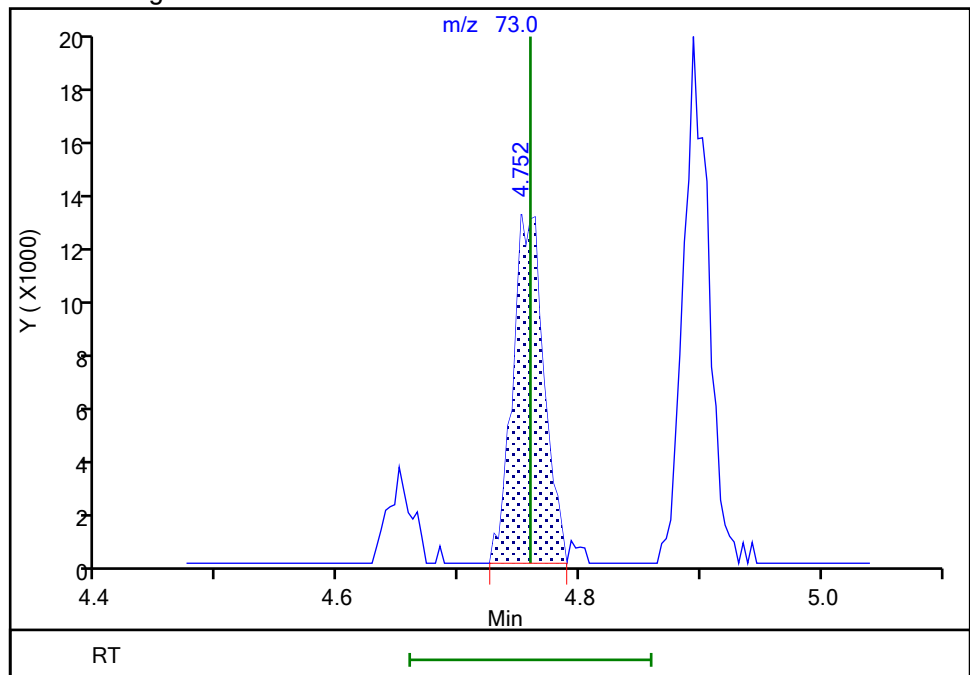
RT: 4.75
Area: 10970
Amount: 0.971578
Amount Units: ug/l

Processing Integration Results



RT: 4.75
Area: 22732
Amount: 0.996943
Amount Units: ug/l

Manual Integration Results



Reviewer: peppinga, 29-Mar-2022 18:30:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3109.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 29-Mar-2022 17:29:30 ALS Bottle#: 2 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD2
 Misc. Info.: 280-0109642-015
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:36 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 18:30:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	1993988	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	485302	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	819971	50.0	50.0	
13 Ethylene oxide	43	2.101	2.097	0.004	99	75829	200.0	185.2	
18 Ethanol	45	2.518	2.525	-0.007	96	16601	120.0	121.2	
20 Propene oxide	58	2.656	2.656	0.000	96	258477	200.0	170.7	
25 Isopropyl alcohol	45	2.907	2.903	0.004	96	10755	20.0	21.1	
28 Acetonitrile	41	3.016	3.016	0.000	99	21981	20.0	18.5	
41 Isopropyl ether	87	3.653	3.657	-0.004	91	11742	2.00	1.69	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	89	21097	2.00	1.61	
44 Tert-butyl ethyl ether	59	3.908	3.912	-0.004	94	39727	2.00	1.64	
46 Ethyl acetate	43	4.047	4.050	-0.003	98	25328	4.00	3.35	
49 Propionitrile	54	4.084	4.080	0.004	98	24631	20.0	17.2	
51 Methacrylonitrile	41	4.189	4.189	0.000	93	101992	20.0	18.1	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	84	36330	2.00	1.64	
66 n-Butanol	56	5.055	5.048	0.007	88	4551	50.0	49.6	
71 Methyl methacrylate	100	5.389	5.381	0.008	89	7068	4.00	2.90	
75 2-Nitropropane	41	5.730	5.734	-0.004	96	7396	4.00	3.41	
86 Tetrahydrothiophene	60	6.877	6.884	-0.007	85	4299	4.00	3.80	
98 cis-1,4-Dichloro-2-butene	53	8.377	8.380	-0.003	0	8755	4.00	3.68	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	98	62399	2.00	1.66	
119 1,3,5-Trichlorobenzene	180	10.974	10.970	0.004	94	22423	2.00	1.69	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00064

Amount Added: 2.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:37

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3109.D

Injection Date: 29-Mar-2022 17:29:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD2

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

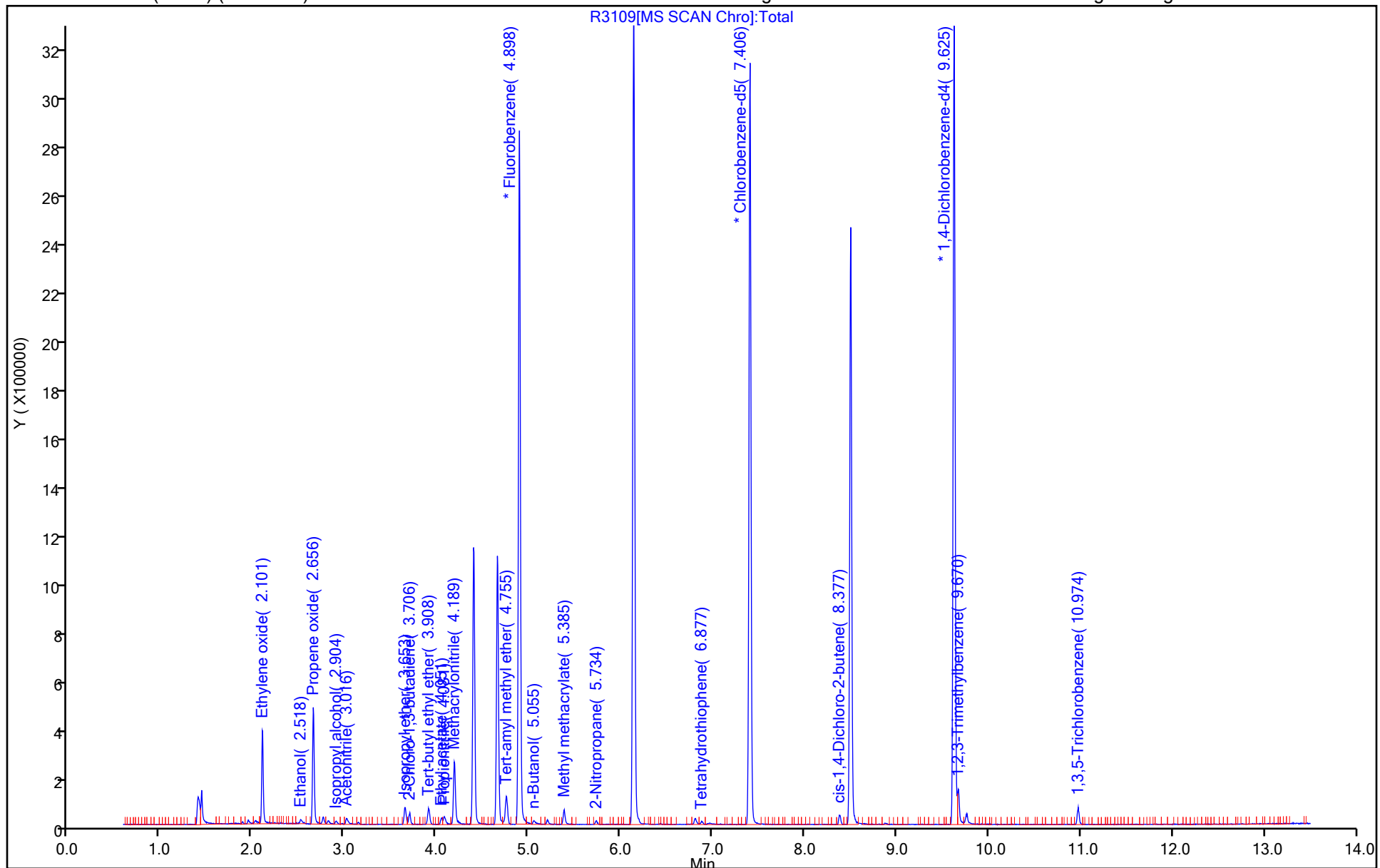
ALS Bottle#: 2

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3110.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Mar-2022 17:51:30 ALS Bottle#: 3 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5
 Misc. Info.: 280-0109642-016
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:37 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 18:31:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2052802	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	496187	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	828738	50.0	50.0	
13 Ethylene oxide	43	2.105	2.097	0.008	99	210677	500.0	499.9	
18 Ethanol	45	2.525	2.525	0.000	98	33189	300.0	288.2	
20 Propene oxide	58	2.656	2.656	0.000	96	778289	500.0	499.2	
25 Isopropyl alcohol	45	2.907	2.903	0.004	98	24656	50.0	46.9	
28 Acetonitrile	41	3.020	3.016	0.004	100	57880	50.0	47.3	
41 Isopropyl ether	87	3.661	3.657	0.004	92	30972	5.00	4.32	M
42 2-Chloro-1,3-butadiene	53	3.706	3.706	0.000	92	60638	5.00	4.50	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	96	110684	5.00	4.45	
46 Ethyl acetate	43	4.051	4.050	0.001	99	70326	10.0	9.03	
49 Propionitrile	54	4.081	4.080	0.000	99	68271	50.0	46.4	
51 Methacrylonitrile	41	4.193	4.189	0.004	91	277327	50.0	47.8	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	96	100231	5.00	4.41	
66 n-Butanol	56	5.055	5.048	0.007	90	18163	125.0	97.6	
71 Methyl methacrylate	100	5.385	5.381	0.004	92	23129	10.0	9.21	
75 2-Nitropropane	41	5.734	5.734	0.000	95	19635	10.0	8.79	
86 Tetrahydrothiophene	60	6.884	6.884	0.000	92	11661	10.0	8.25	
98 cis-1,4-Dichloro-2-butene	53	8.384	8.380	0.004	0	23745	10.0	8.07	
115 1,2,3-Trimethylbenzene	105	9.673	9.670	0.003	97	167949	5.00	4.41	
119 1,3,5-Trichlorobenzene	180	10.974	10.970	0.004	96	60420	5.00	4.50	
165 t-Amyl alcohol	1		0.000				ND	ND	
166 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MV-Supp A_00064

Amount Added: 5.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:38

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3110.D

Injection Date: 29-Mar-2022 17:51:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD5

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

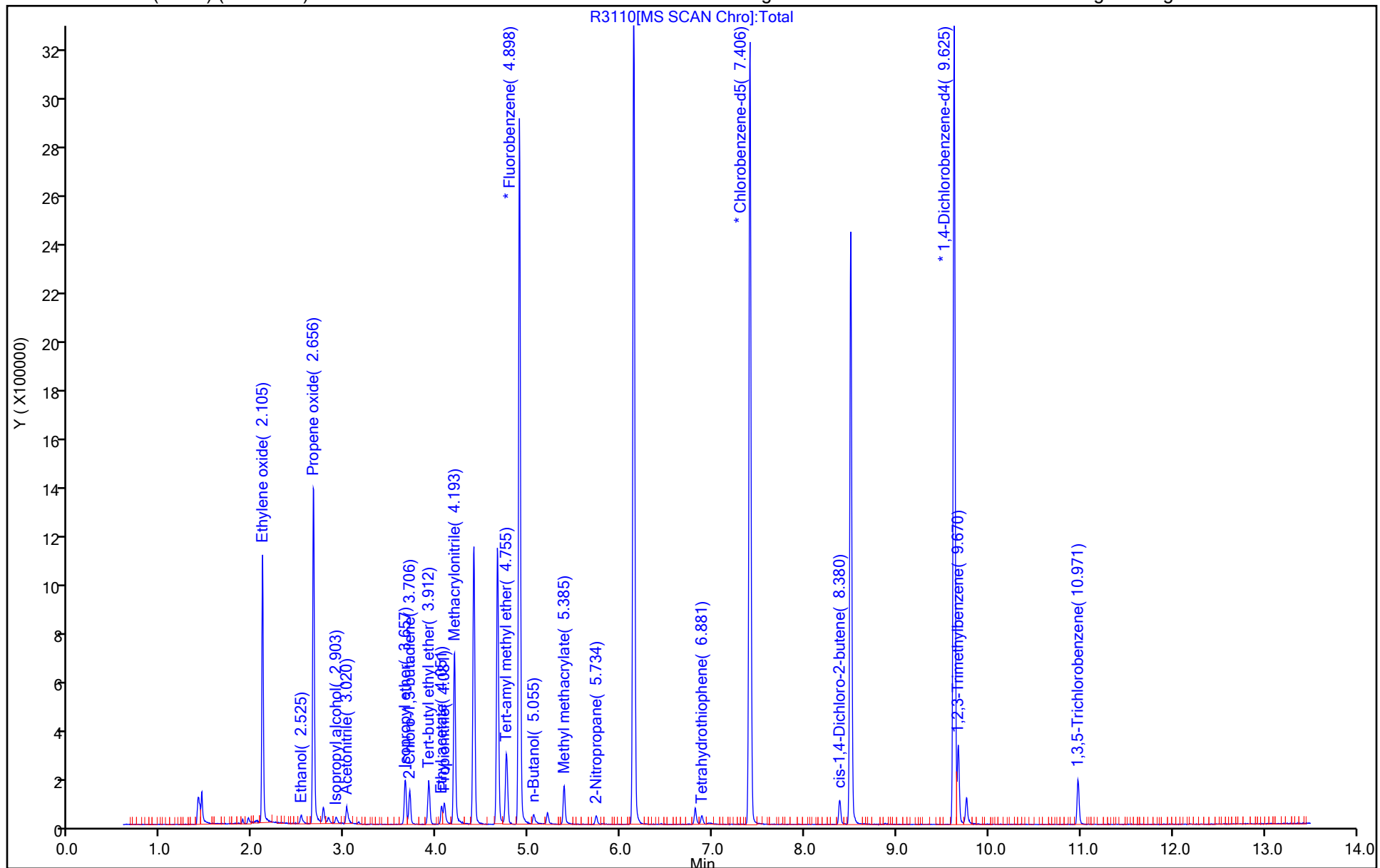
ALS Bottle#: 3

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3110.D

Injection Date: 29-Mar-2022 17:51:30

Instrument ID: VMS_R1

Lims ID: STD5

Client ID:

Operator ID: peppinga

ALS Bottle#:

3

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

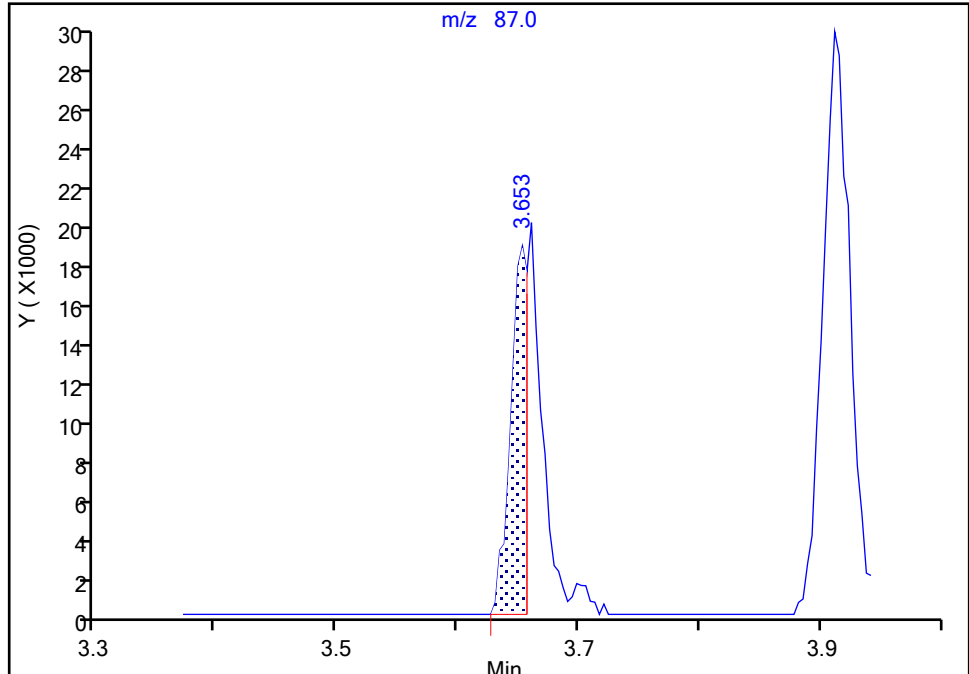
MS SCAN

41 Isopropyl ether, CAS: 108-20-3

Signal: 1

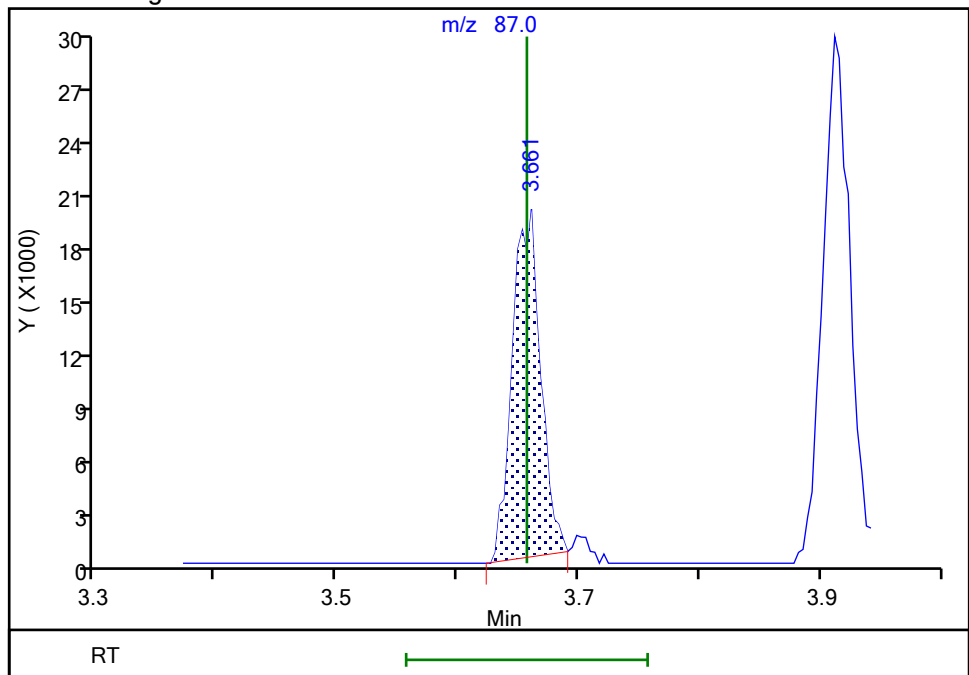
RT: 3.65
Area: 18140
Amount: 4.781523
Amount Units: ug/l

Processing Integration Results



RT: 3.66
Area: 30972
Amount: 4.318702
Amount Units: ug/l

Manual Integration Results



Reviewer: peppinga, 29-Mar-2022 18:31:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3111.D
 Lims ID: STD10
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 29-Mar-2022 18:13:30 ALS Bottle#: 4 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD10
 Misc. Info.: 280-0109642-017
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:38 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 18:31:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2084470	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	502803	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	826804	50.0	50.0	
13 Ethylene oxide	43	2.105	2.097	0.008	99	459766	1000.0	1074.4	
18 Ethanol	45	2.521	2.525	-0.004	99	66279	600.0	621.1	
20 Propene oxide	58	2.660	2.656	0.004	96	1716502	1000.0	1084.2	
25 Isopropyl alcohol	45	2.907	2.903	0.004	97	50624	100.0	94.9	
28 Acetonitrile	41	3.020	3.016	0.004	99	122451	100.0	98.6	
41 Isopropyl ether	87	3.653	3.657	-0.004	92	69334	10.0	9.52	
42 2-Chloro-1,3-butadiene	53	3.706	3.706	0.000	92	141658	10.0	10.4	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	245364	10.0	9.71	
46 Ethyl acetate	43	4.051	4.050	0.001	99	152893	20.0	19.3	
49 Propionitrile	54	4.081	4.080	0.001	99	144362	100.0	96.7	
51 Methacrylonitrile	41	4.193	4.189	0.004	92	588613	100.0	99.9	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	96	214260	10.0	9.28	
66 n-Butanol	56	5.051	5.048	0.003	89	45164	250.0	191.1	
71 Methyl methacrylate	100	5.389	5.381	0.008	91	48037	20.0	18.8	
75 2-Nitropropane	41	5.734	5.734	0.000	99	38816	20.0	17.1	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	91	25392	20.0	16.5	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	50149	20.0	15.9	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	368310	10.0	9.70	
119 1,3,5-Trichlorobenzene	180	10.974	10.970	0.004	97	130505	10.0	9.75	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00064

Amount Added: 10.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:38

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3111.D

Injection Date: 29-Mar-2022 18:13:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD10

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

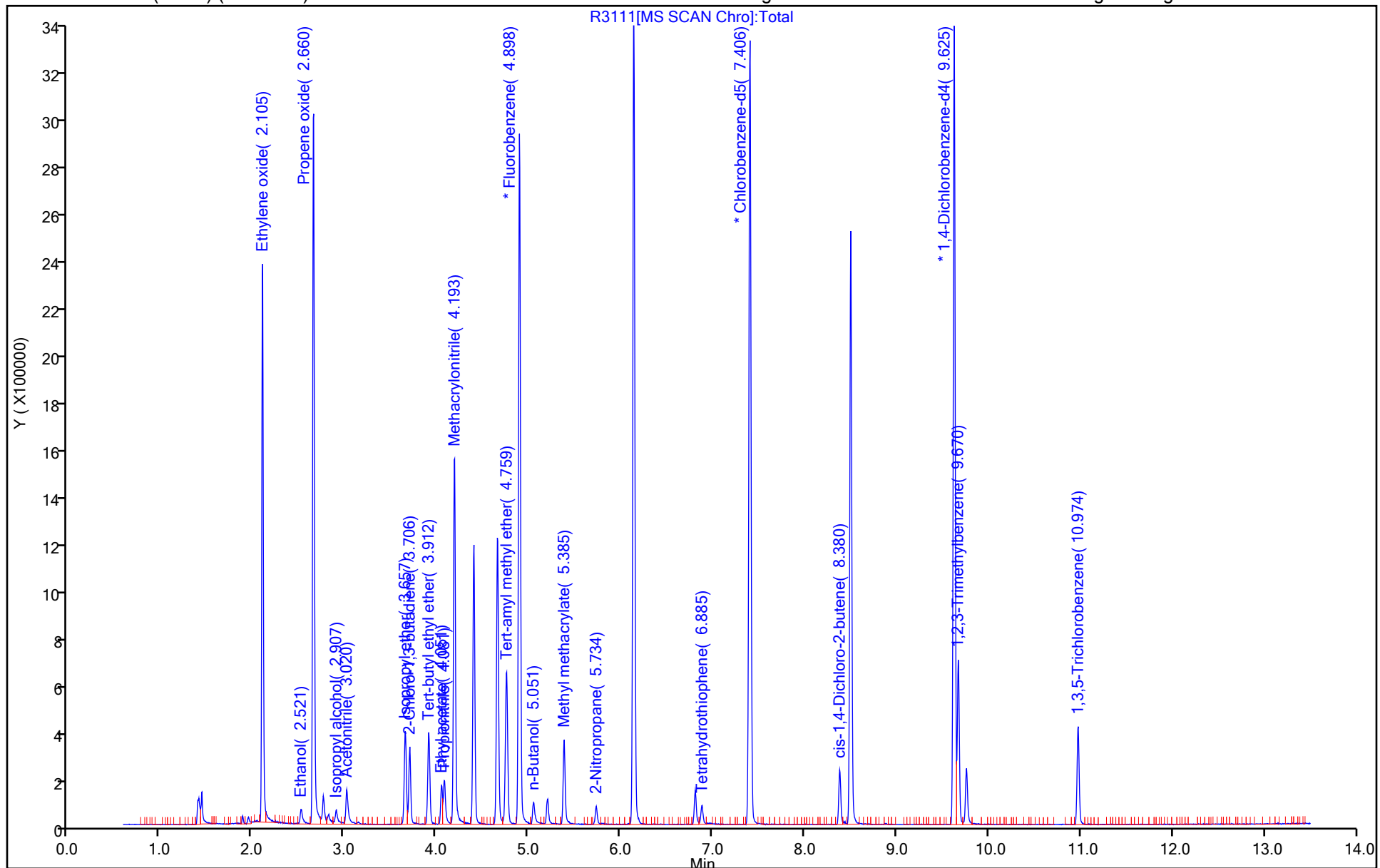
ALS Bottle#: 4

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3112.D
 Lims ID: STD50
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 29-Mar-2022 18:35:30 ALS Bottle#: 5 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD50
 Misc. Info.: 280-0109642-018
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:39 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 20:03:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2144375	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.405	7.405	0.000	87	531556	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	857454	50.0	50.0	
13 Ethylene oxide	43	2.097	2.097	0.000	99	2297197	5000.0	5218.3	
18 Ethanol	45	2.525	2.525	0.000	99	295752	3000.0	2881.6	
20 Propene oxide	58	2.656	2.656	0.000	96	8590951	5000.0	5274.6	
25 Isopropyl alcohol	45	2.903	2.903	0.000	97	249555	500.0	454.8	
28 Acetonitrile	41	3.016	3.016	0.000	99	610630	500.0	478.2	
41 Isopropyl ether	87	3.657	3.657	0.000	93	405738	50.0	54.2	
42 2-Chloro-1,3-butadiene	53	3.706	3.706	0.000	92	794097	50.0	56.4	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	1372894	50.0	52.8	
46 Ethyl acetate	43	4.050	4.050	0.000	99	840000	100.0	103.2	
49 Propionitrile	54	4.080	4.080	0.000	99	778014	500.0	506.5	
51 Methacrylonitrile	41	4.189	4.189	0.000	92	3076234	500.0	507.4	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	98	1239413	50.0	52.2	
66 n-Butanol	56	5.048	5.048	0.000	89	321065	1250.0	1125.8	
71 Methyl methacrylate	100	5.381	5.381	0.000	91	288880	100.0	110.1	
75 2-Nitropropane	41	5.734	5.734	0.000	98	231231	100.0	99.0	
86 Tetrahydrothiophene	60	6.884	6.884	0.000	92	163018	100.0	94.4	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	327239	100.0	94.2	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	98	2072234	50.0	52.6	
119 1,3,5-Trichlorobenzene	180	10.970	10.970	0.000	97	724840	50.0	52.2	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00064

Amount Added: 50.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3112.D

Injection Date: 29-Mar-2022 18:35:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD50

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3113.D
 Lims ID: STD75
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 29-Mar-2022 18:57:30 ALS Bottle#: 6 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD75
 Misc. Info.: 280-0109642-019
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:40 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 19:34:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2197061	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	535353	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	879338	50.0	50.0	
13 Ethylene oxide	43	2.094	2.097	-0.003	100	3033486	7500.0	6725.6	e
18 Ethanol	45	2.529	2.525	0.004	100	502943	4500.0	4819.9	
20 Propene oxide	58	2.652	2.656	-0.004	96	13190316	7500.0	7904.2	e
25 Isopropyl alcohol	45	2.907	2.903	0.004	98	444707	750.0	791.0	
28 Acetonitrile	41	3.016	3.016	0.000	99	998788	750.0	763.4	
41 Isopropyl ether	87	3.657	3.657	0.000	93	651074	75.0	84.8	
42 2-Chloro-1,3-butadiene	53	3.706	3.706	0.000	92	1213255	75.0	84.1	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	2201029	75.0	82.6	
46 Ethyl acetate	43	4.051	4.050	0.001	99	1323466	150.0	158.7	
49 Propionitrile	54	4.080	4.080	0.000	99	1202046	750.0	763.8	
51 Methacrylonitrile	41	4.189	4.189	0.000	92	4780750	750.0	769.6	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	97	1977515	75.0	81.2	
66 n-Butanol	56	5.048	5.048	0.000	88	524904	1875.0	1776.8	
71 Methyl methacrylate	100	5.381	5.381	0.000	92	453327	150.0	168.7	
75 2-Nitropropane	41	5.730	5.734	-0.004	99	370035	150.0	154.7	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	92	262558	150.0	150.2	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	531270	150.0	148.5	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	3194067	75.0	79.1	
119 1,3,5-Trichlorobenzene	180	10.974	10.970	0.004	97	1138481	75.0	79.9	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

e - Potential Peak Saturated

Reagents:

MV-Supp A_00064

Amount Added: 75.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:40

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3113.D

Injection Date: 29-Mar-2022 18:57:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD75

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/7/2023 6:03

PM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3114.D
 Lims ID: STD100
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 29-Mar-2022 19:18:30 ALS Bottle#: 7 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD100
 Misc. Info.: 280-0109642-020
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:41 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 19:33:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2223974	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	550622	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	898554	50.0	50.0	
13 Ethylene oxide	43	2.086	2.097	-0.011	100	2884877	10000	6318.8	
18 Ethanol	45	2.532	2.525	0.007	100	567998	6000.0	5383.9	
20 Propene oxide	58		2.656				ND	ND	U
25 Isopropyl alcohol	45	2.907	2.903	0.004	98	547594	1000.0	962.2	
28 Acetonitrile	41	3.020	3.016	0.004	99	1193626	1000.0	901.2	
41 Isopropyl ether	87	3.653	3.657	-0.004	93	803240	100.0	103.4	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	92	1479363	100.0	101.3	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	2753175	100.0	102.1	
46 Ethyl acetate	43	4.050	4.050	0.000	99	1701576	200.0	201.6	
49 Propionitrile	54	4.080	4.080	0.000	99	1499374	1000.0	941.2	
51 Methacrylonitrile	41	4.189	4.189	0.000	92	5893781	1000.0	937.4	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	98	2706747	100.0	109.8	
66 n-Butanol	56	5.048	5.048	0.000	89	750978	2500.0	2497.7	
71 Methyl methacrylate	100	5.381	5.381	0.000	91	604327	200.0	222.1	
75 2-Nitropropane	41	5.734	5.734	0.000	98	502540	200.0	207.5	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	92	349652	200.0	194.2	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	725683	200.0	198.1	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	4302417	100.0	104.2	
119 1,3,5-Trichlorobenzene	180	10.974	10.970	0.004	97	1527308	100.0	105.0	
165 t-Amyl alcohol	1		0.000				ND	ND	
166 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

MV-Supp A_00064

Amount Added: 100.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:41

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3114.D

Injection Date: 29-Mar-2022 19:18:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD100

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

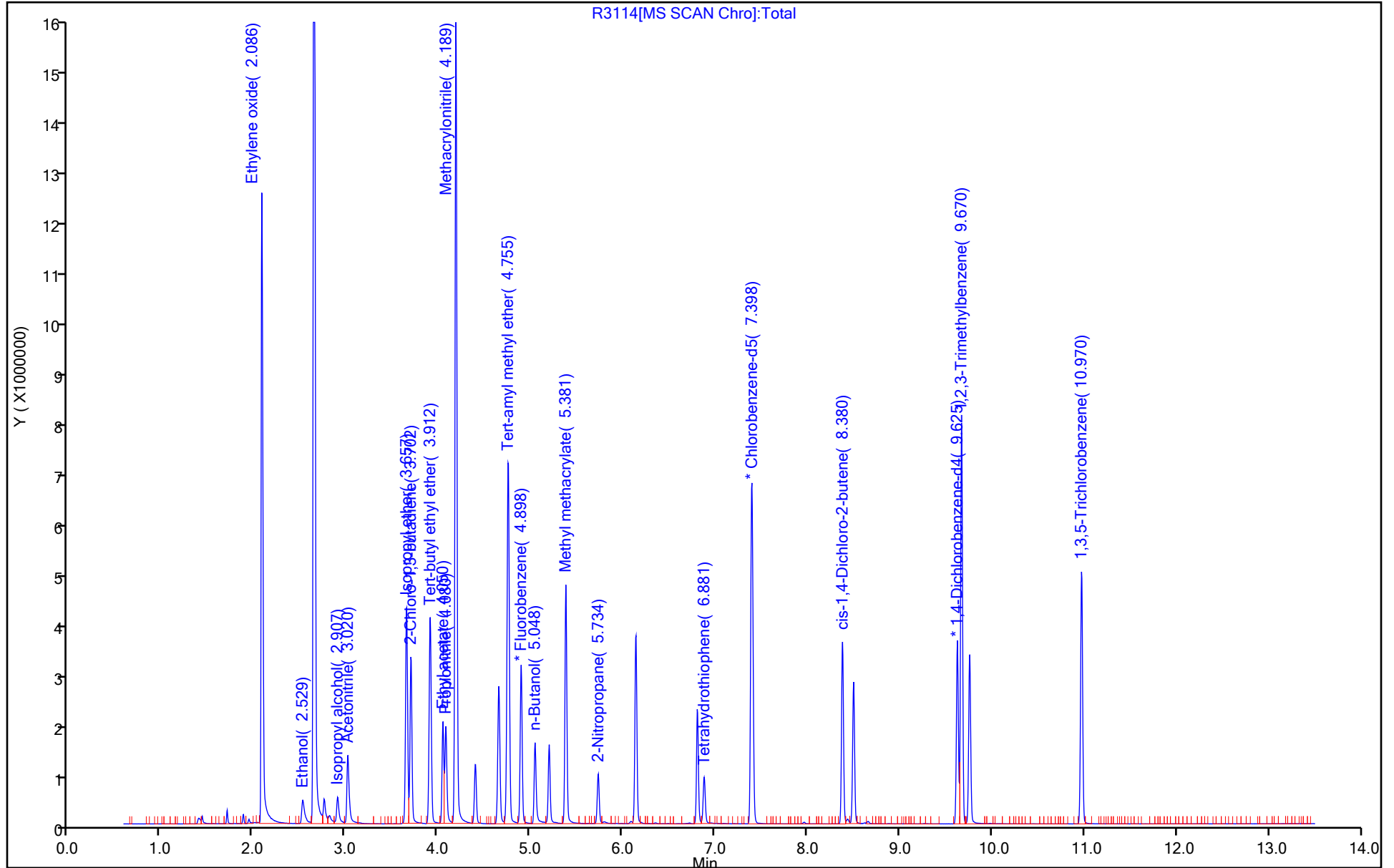
ALS Bottle#: 7

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Lims ID: STD200
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 29-Mar-2022 19:40:30 ALS Bottle#: 8 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD200
 Misc. Info.: 280-0109642-021
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:41 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 20:04:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2269508	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	88	550243	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	95	928839	50.0	50.0	
13 Ethylene oxide	43	2.075	2.097	-0.022	100	2296557	20000	4929.2	
18 Ethanol	45	2.536	2.525	0.011	100	1368163	12000	12785	
20 Propene oxide	58		2.656				ND	ND	U
25 Isopropyl alcohol	45	2.911	2.903	0.008	98	1314495	2000.0	2263.5	
28 Acetonitrile	41	3.020	3.016	0.004	99	2794599	2000.0	2067.7	
41 Isopropyl ether	87	3.657	3.657	0.000	93	1850939	200.0	233.4	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	92	3332699	200.0	223.7	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	6337238	200.0	230.3	
46 Ethyl acetate	43	4.051	4.050	0.001	99	3877499	400.0	450.3	
49 Propionitrile	54	4.081	4.080	0.001	99	3302329	2000.0	2031.3	
51 Methacrylonitrile	41	4.193	4.189	0.004	92	12734382	2000.0	1984.7	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	98	5769973	200.0	229.4	
66 n-Butanol	56	5.048	5.048	0.000	88	1636921	5000.0	5297.5	
71 Methyl methacrylate	100	5.381	5.381	0.000	90	1275788	400.0	459.5	
75 2-Nitropropane	41	5.734	5.734	0.000	98	1089095	400.0	440.8	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	92	750516	400.0	415.8	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	1573985	400.0	414.5	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	9012497	200.0	211.2	
119 1,3,5-Trichlorobenzene	180	10.971	10.970	0.001	97	3275032	200.0	217.7	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

MV-Supp A_00064

Amount Added: 200.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:42

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D

Injection Date: 29-Mar-2022 19:40:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD200

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

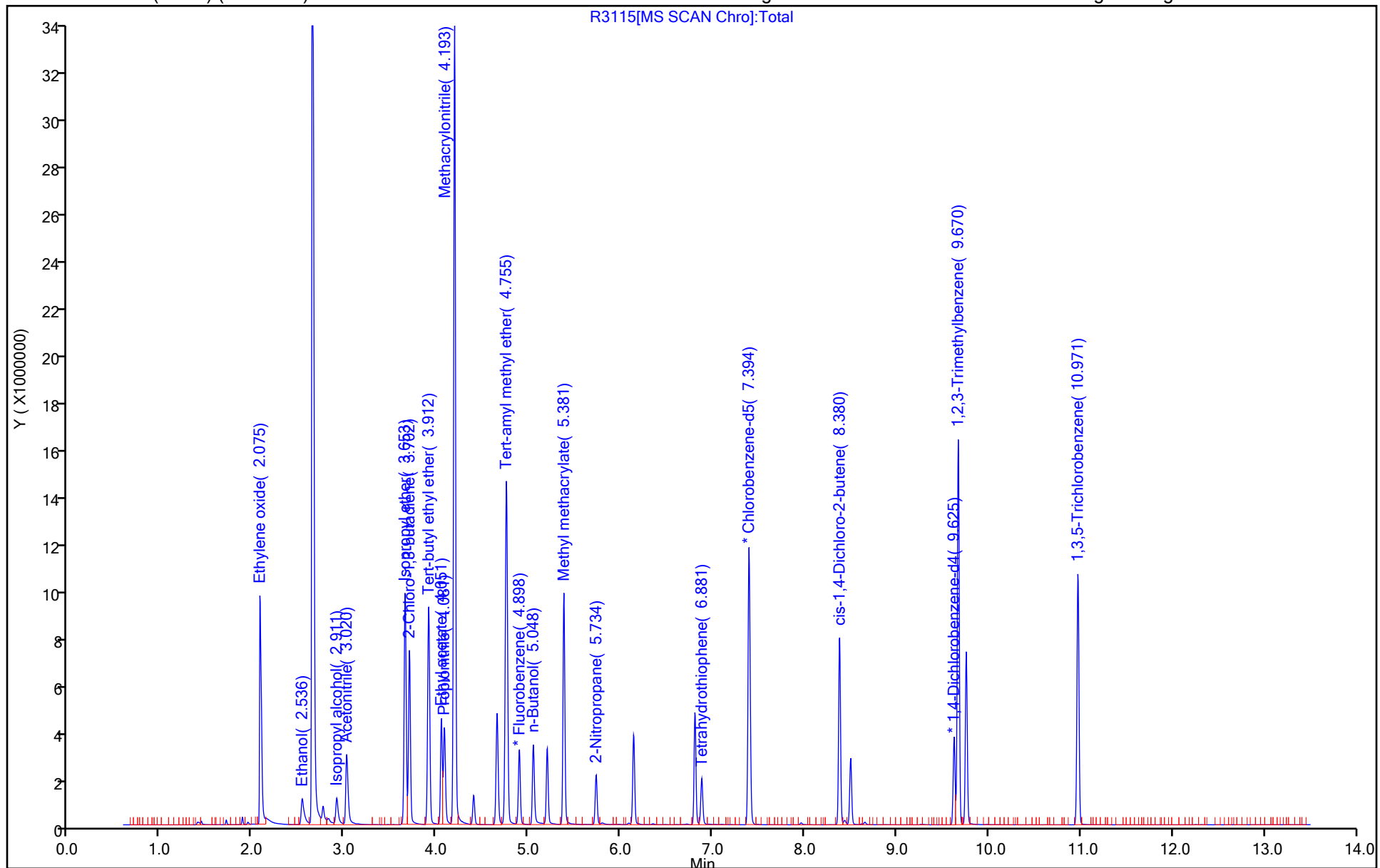
ALS Bottle#: 8

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Calibration

/ Ethanol

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

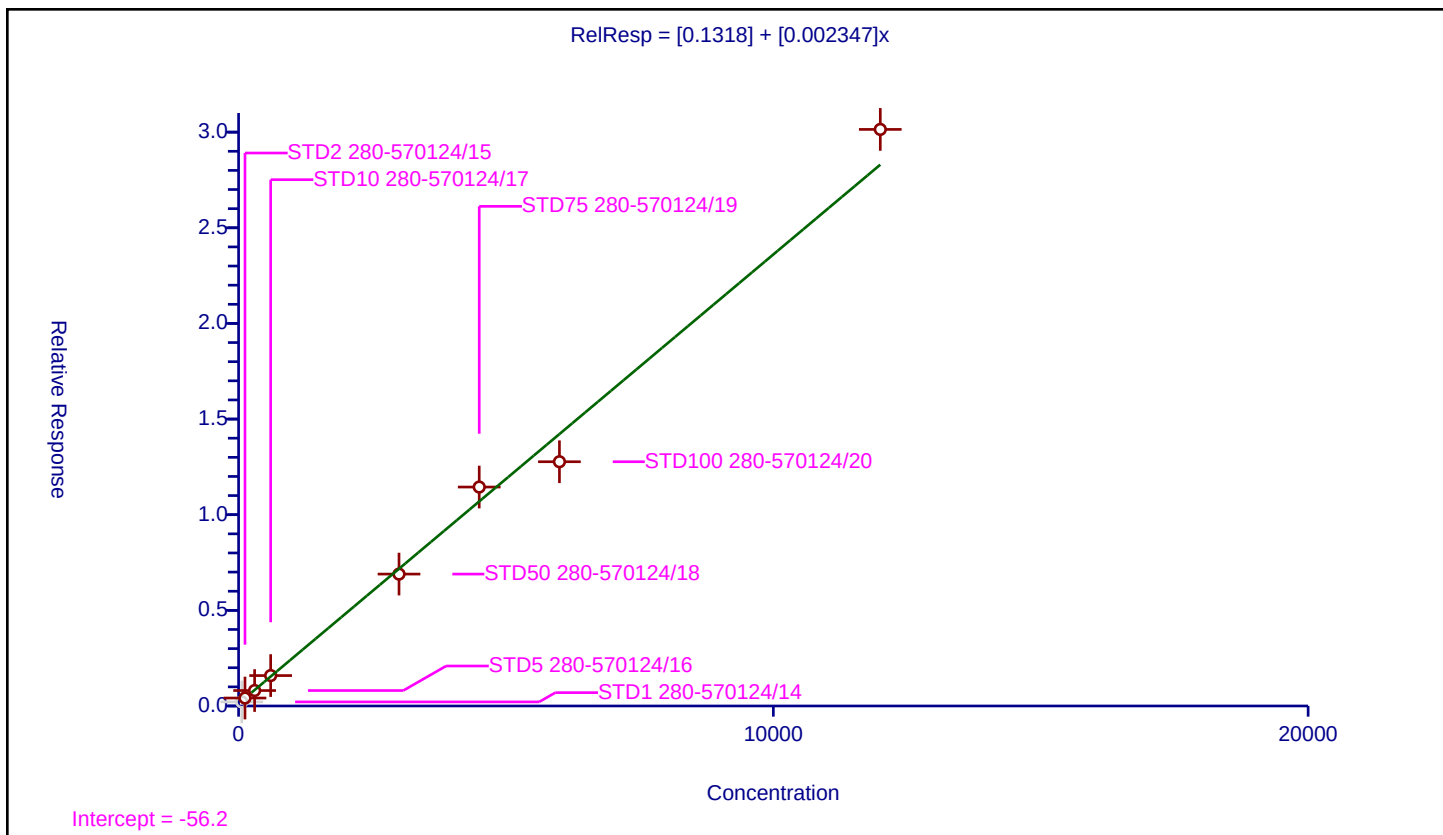
Curve Coefficients

Intercept: 0.1318
 Slope: 0.002347

Error Coefficients

Standard Error: 713000
 Relative Standard Error: 7.0
 Correlation Coefficient: 0.992
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	60.0	0.213575	50.0	2057822.0	0.00356	N
2	STD2 280-570124/15	120.0	0.416276	50.0	1993988.0	0.003469	Y
3	STD5 280-570124/16	300.0	0.808383	50.0	2052802.0	0.002695	Y
4	STD10 280-570124/17	600.0	1.589829	50.0	2084470.0	0.00265	Y
5	STD50 280-570124/18	3000.0	6.895995	50.0	2144375.0	0.002299	Y
6	STD75 280-570124/19	4500.0	11.445813	50.0	2197061.0	0.002544	Y
7	STD100 280-570124/20	6000.0	12.769888	50.0	2223974.0	0.002128	Y
8	STD200 280-570124/21	12000.0	30.142282	50.0	2269508.0	0.002512	Y



Calibration

/ Isopropyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

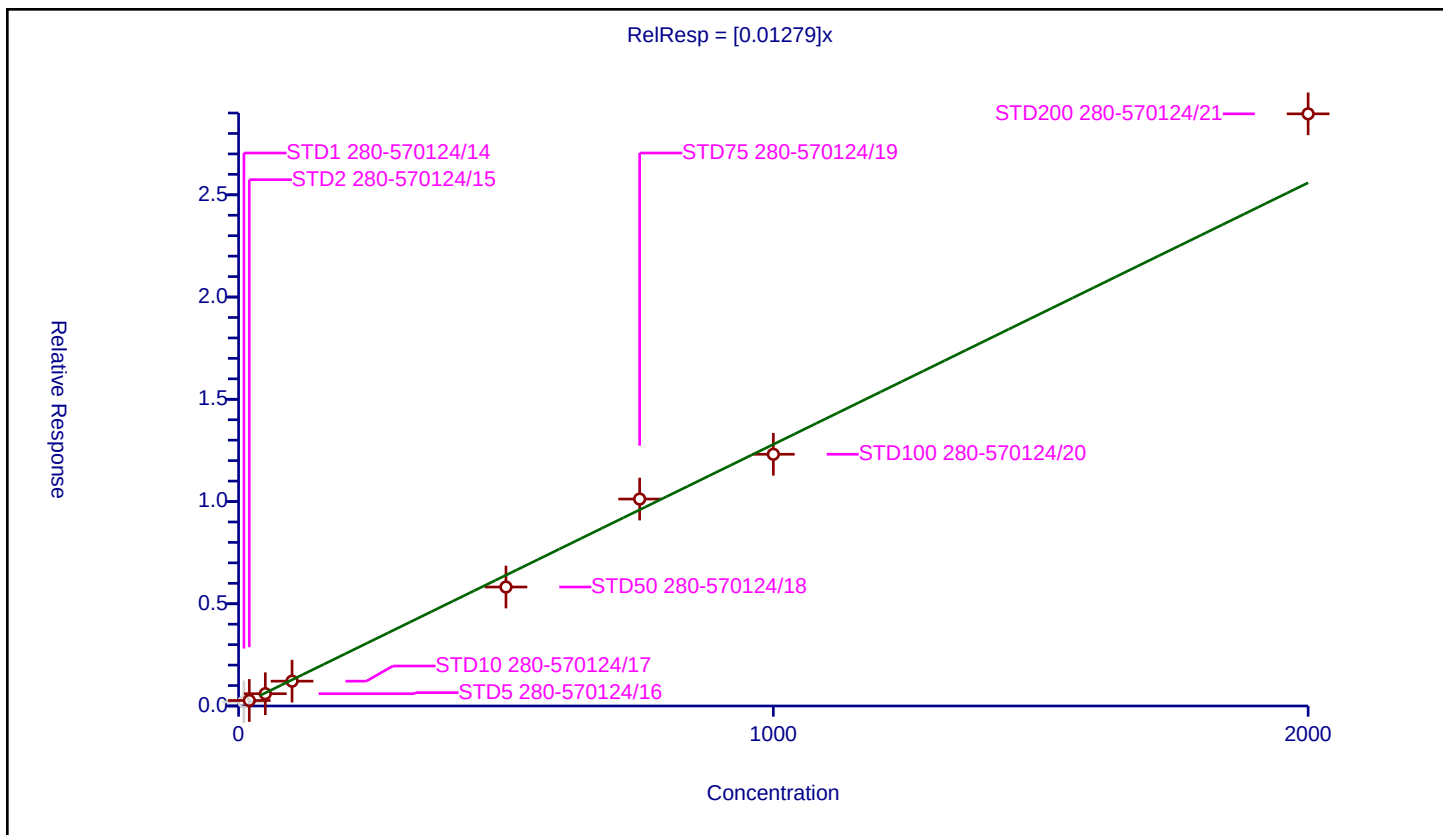
Curve Coefficients

Intercept: 0
 Slope: 0.01279

Error Coefficients

Standard Error: 618000
 Relative Standard Error: 8.1
 Correlation Coefficient: 0.992
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	10.0	0.201985	50.0	2057822.0	0.020199	N
2	STD2 280-570124/15	20.0	0.269686	50.0	1993988.0	0.013484	Y
3	STD5 280-570124/16	50.0	0.600545	50.0	2052802.0	0.012011	Y
4	STD10 280-570124/17	100.0	1.214313	50.0	2084470.0	0.012143	Y
5	STD50 280-570124/18	500.0	5.818828	50.0	2144375.0	0.011638	Y
6	STD75 280-570124/19	750.0	10.120497	50.0	2197061.0	0.013494	Y
7	STD100 280-570124/20	1000.0	12.31116	50.0	2223974.0	0.012311	Y
8	STD200 280-570124/21	2000.0	28.959911	50.0	2269508.0	0.01448	Y



Calibration

/ Acetonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

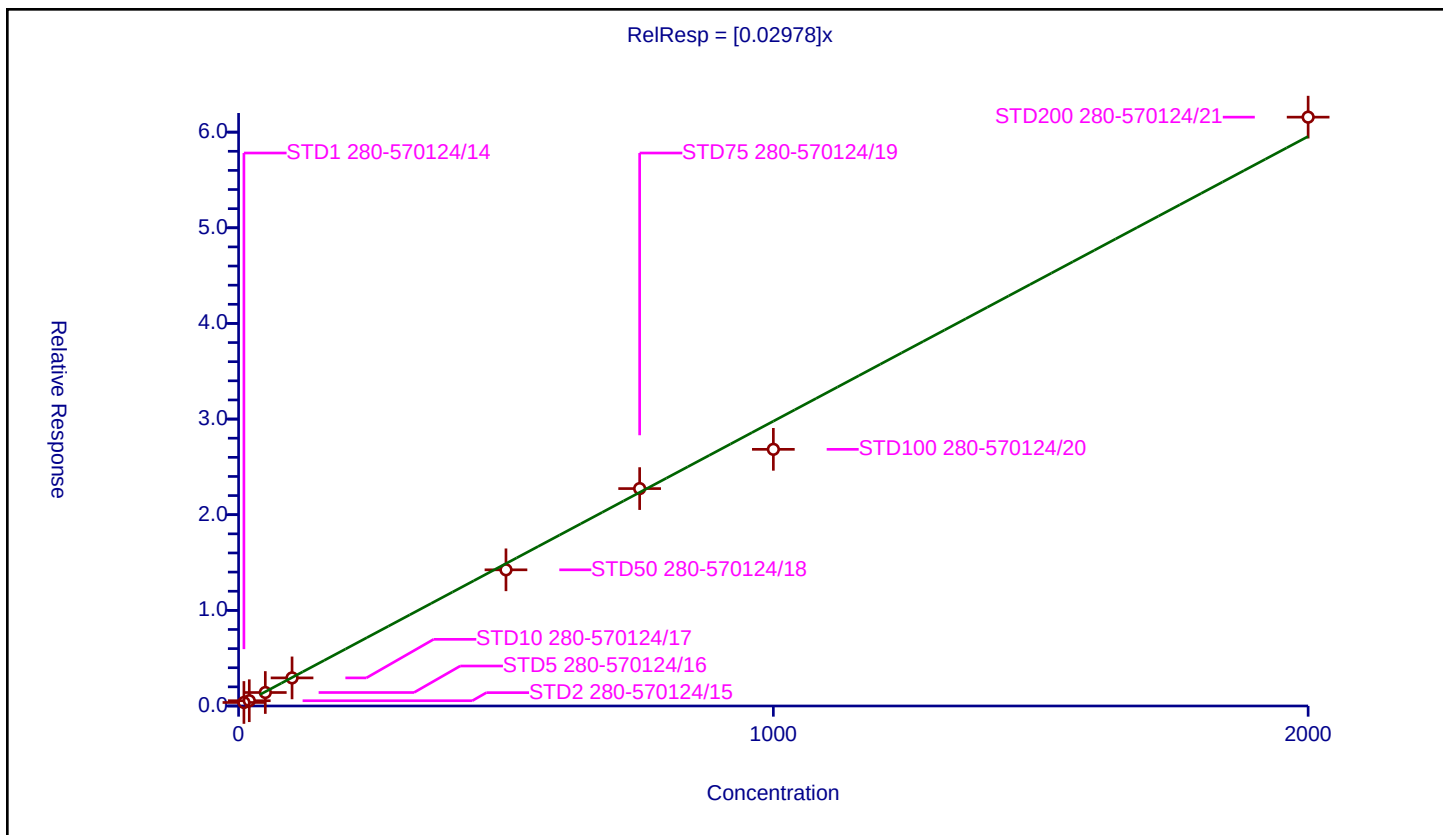
Curve Coefficients

Intercept: 0
 Slope: 0.02978

Error Coefficients

Standard Error: 1230000
 Relative Standard Error: 10.4
 Correlation Coefficient: 0.995
 Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	10.0	0.366796	50.0	2057822.0	0.03668	Y
2	STD2 280-570124/15	20.0	0.551182	50.0	1993988.0	0.027559	Y
3	STD5 280-570124/16	50.0	1.40978	50.0	2052802.0	0.028196	Y
4	STD10 280-570124/17	100.0	2.937221	50.0	2084470.0	0.029372	Y
5	STD50 280-570124/18	500.0	14.237948	50.0	2144375.0	0.028476	Y
6	STD75 280-570124/19	750.0	22.730093	50.0	2197061.0	0.030307	Y
7	STD100 280-570124/20	1000.0	26.835431	50.0	2223974.0	0.026835	Y
8	STD200 280-570124/21	2000.0	61.568388	50.0	2269508.0	0.030784	Y



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

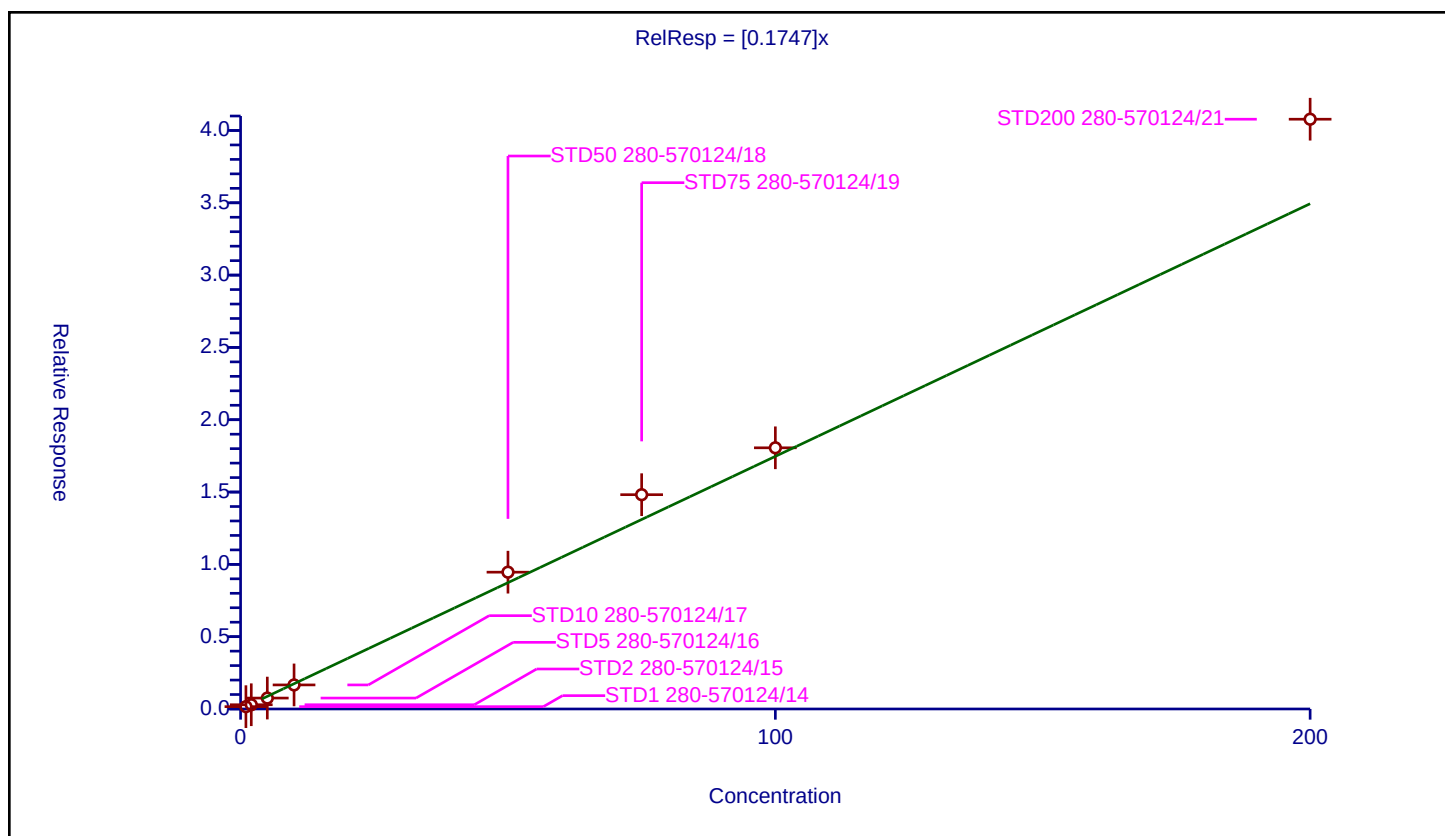
Curve Coefficients

Intercept: 0
 Slope: 0.1747

Error Coefficients

Standard Error: 816000
 Relative Standard Error: 12.2
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	0.161773	50.0	2057822.0	0.161773	Y
2	STD2 280-570124/15	2.0	0.294435	50.0	1993988.0	0.147218	Y
3	STD5 280-570124/16	5.0	0.754384	50.0	2052802.0	0.150877	Y
4	STD10 280-570124/17	10.0	1.663109	50.0	2084470.0	0.166311	Y
5	STD50 280-570124/18	50.0	9.460519	50.0	2144375.0	0.18921	Y
6	STD75 280-570124/19	75.0	14.81693	50.0	2197061.0	0.197559	Y
7	STD100 280-570124/20	100.0	18.058664	50.0	2223974.0	0.180587	Y
8	STD200 280-570124/21	200.0	40.77842	50.0	2269508.0	0.203892	Y



Calibration

/ 2-Chloro-1,3-butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

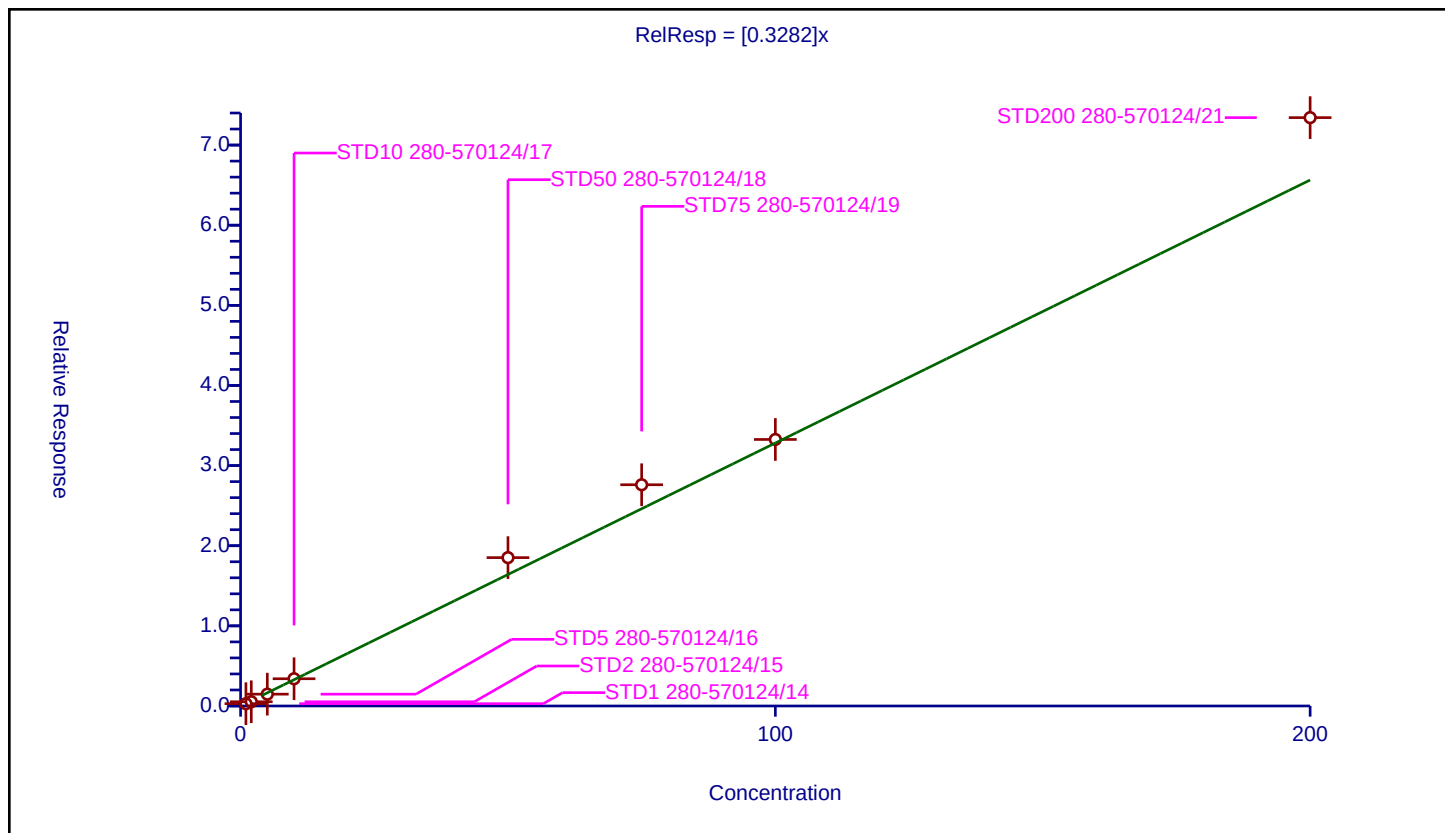
Curve Coefficients

Intercept: 0
Slope: 0.3282

Error Coefficients

Standard Error: 1480000
Relative Standard Error: 12.5
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	0.287634	50.0	2057822.0	0.287634	Y
2	STD2 280-570124/15	2.0	0.529015	50.0	1993988.0	0.264508	Y
3	STD5 280-570124/16	5.0	1.476957	50.0	2052802.0	0.295391	Y
4	STD10 280-570124/17	10.0	3.397938	50.0	2084470.0	0.339794	Y
5	STD50 280-570124/18	50.0	18.515815	50.0	2144375.0	0.370316	Y
6	STD75 280-570124/19	75.0	27.610863	50.0	2197061.0	0.368145	Y
7	STD100 280-570124/20	100.0	33.259449	50.0	2223974.0	0.332594	Y
8	STD200 280-570124/21	200.0	73.423381	50.0	2269508.0	0.367117	Y



Calibration

/ Tert-butyl ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

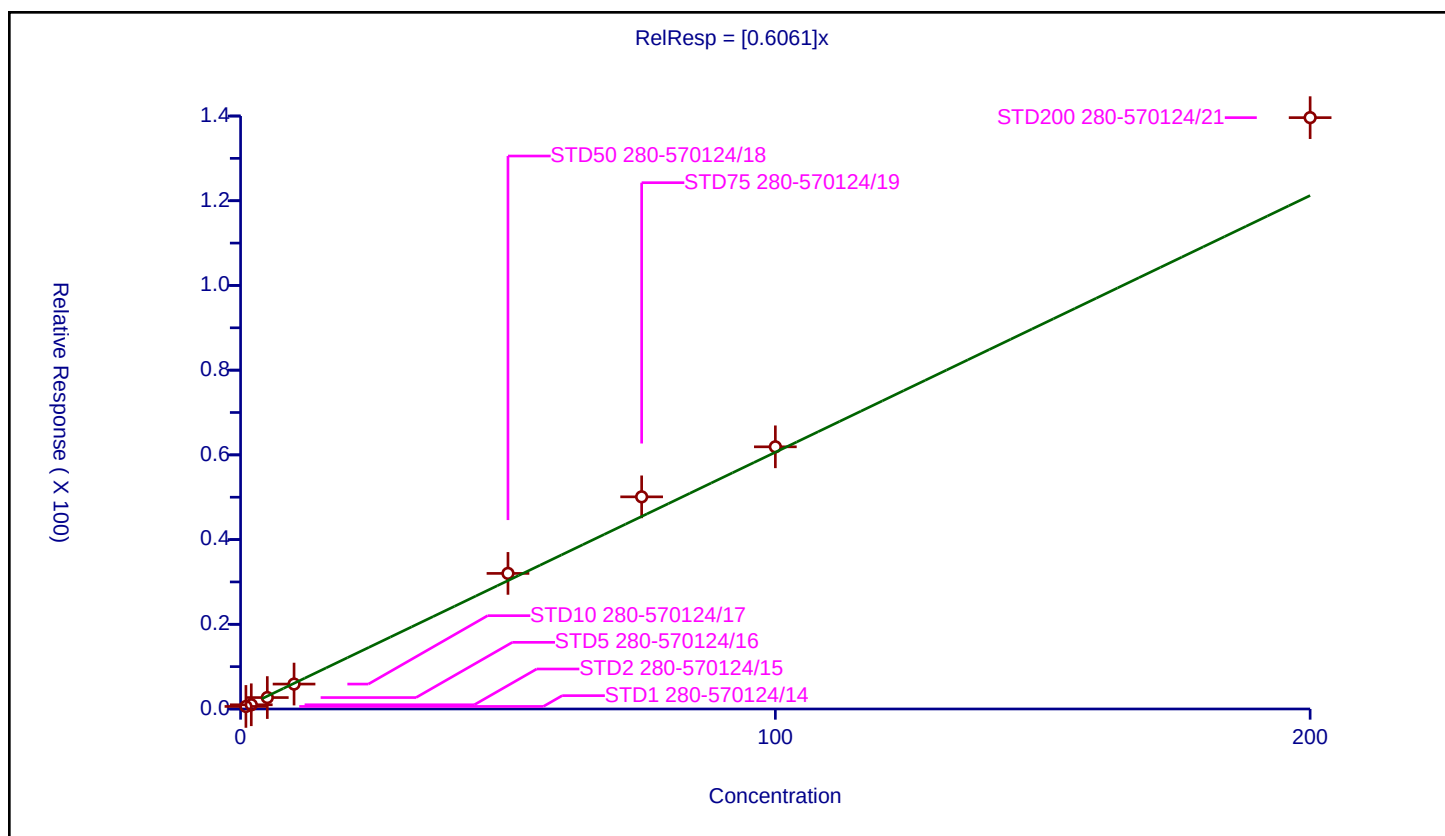
Curve Coefficients

Intercept: 0
 Slope: 0.6061

Error Coefficients

Standard Error: 2790000
 Relative Standard Error: 10.8
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	0.598132	50.0	2057822.0	0.598132	Y
2	STD2 280-570124/15	2.0	0.996169	50.0	1993988.0	0.498085	Y
3	STD5 280-570124/16	5.0	2.695925	50.0	2052802.0	0.539185	Y
4	STD10 280-570124/17	10.0	5.885525	50.0	2084470.0	0.588552	Y
5	STD50 280-570124/18	50.0	32.011519	50.0	2144375.0	0.64023	Y
6	STD75 280-570124/19	75.0	50.090302	50.0	2197061.0	0.667871	Y
7	STD100 280-570124/20	100.0	61.897644	50.0	2223974.0	0.618976	Y
8	STD200 280-570124/21	200.0	139.617001	50.0	2269508.0	0.698085	Y



Calibration

/ Ethyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

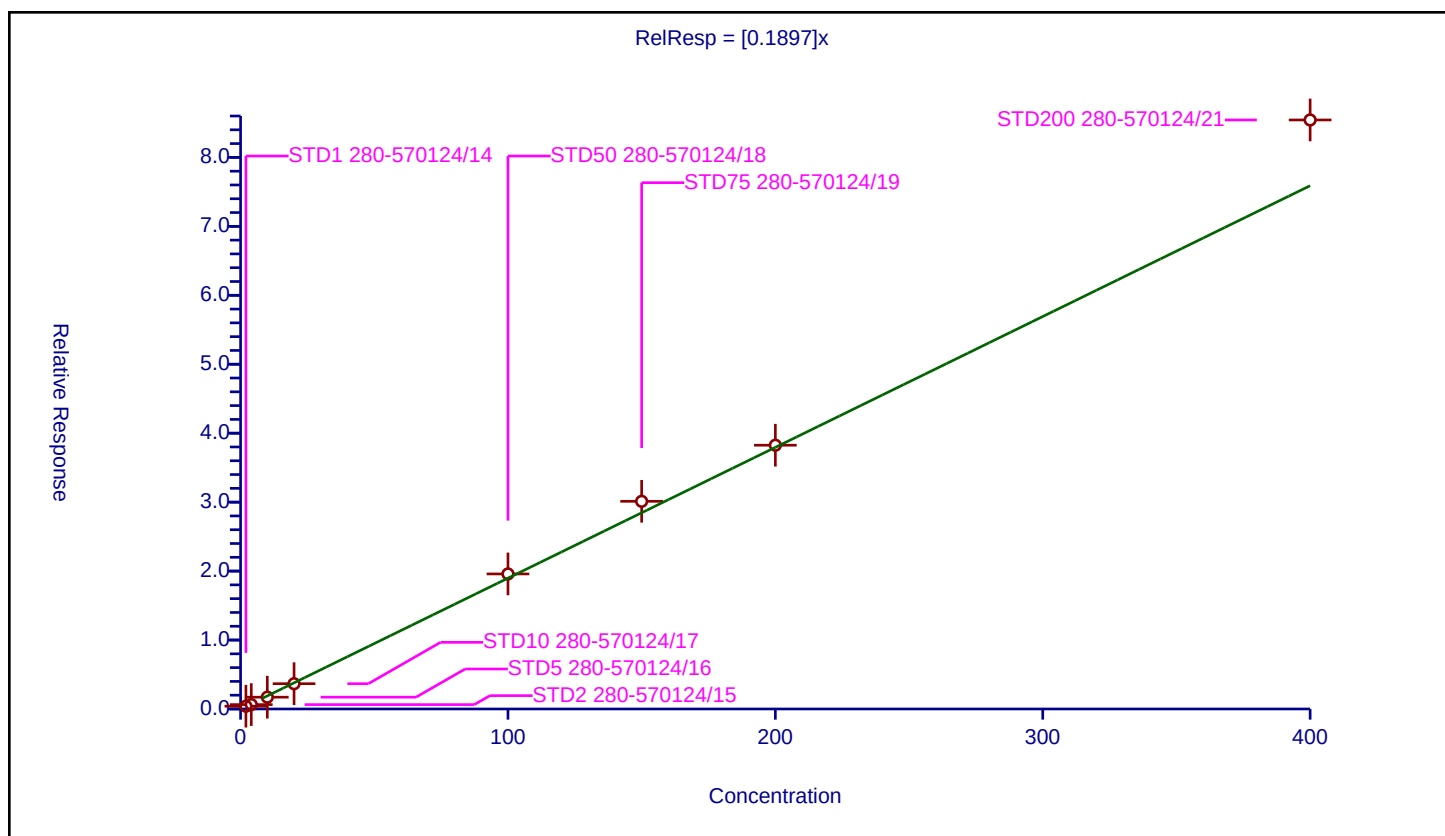
Curve Coefficients

Intercept: 0
 Slope: 0.1897

Error Coefficients

Standard Error: 1710000
 Relative Standard Error: 9.4
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	2.0	0.405793	50.0	2057822.0	0.202897	Y
2	STD2 280-570124/15	4.0	0.635109	50.0	1993988.0	0.158777	Y
3	STD5 280-570124/16	10.0	1.712927	50.0	2052802.0	0.171293	Y
4	STD10 280-570124/17	20.0	3.667431	50.0	2084470.0	0.183372	Y
5	STD50 280-570124/18	100.0	19.586126	50.0	2144375.0	0.195861	Y
6	STD75 280-570124/19	150.0	30.119009	50.0	2197061.0	0.200793	Y
7	STD100 280-570124/20	200.0	38.255303	50.0	2223974.0	0.191277	Y
8	STD200 280-570124/21	400.0	85.425982	50.0	2269508.0	0.213565	Y



Calibration

/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

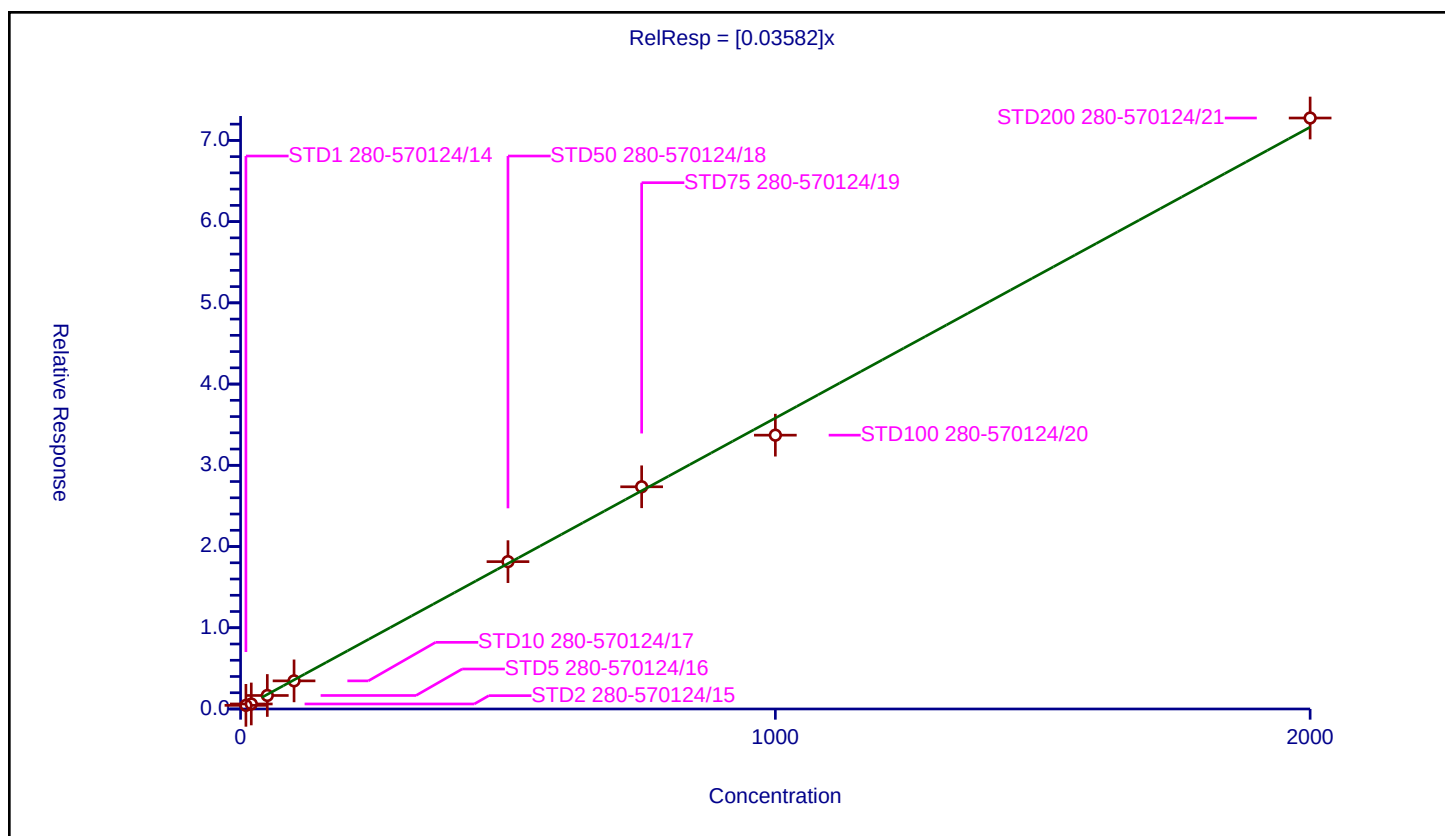
Curve Coefficients

Intercept: 0
Slope: 0.03582

Error Coefficients

Standard Error: 1480000
Relative Standard Error: 11.6
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	10.0	0.449164	50.0	2057822.0	0.044916	Y
2	STD2 280-570124/15	20.0	0.617632	50.0	1993988.0	0.030882	Y
3	STD5 280-570124/16	50.0	1.662873	50.0	2052802.0	0.033257	Y
4	STD10 280-570124/17	100.0	3.462799	50.0	2084470.0	0.034628	Y
5	STD50 280-570124/18	500.0	18.14081	50.0	2144375.0	0.036282	Y
6	STD75 280-570124/19	750.0	27.355772	50.0	2197061.0	0.036474	Y
7	STD100 280-570124/20	1000.0	33.709342	50.0	2223974.0	0.033709	Y
8	STD200 280-570124/21	2000.0	72.754293	50.0	2269508.0	0.036377	Y



Calibration

/ Methacrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

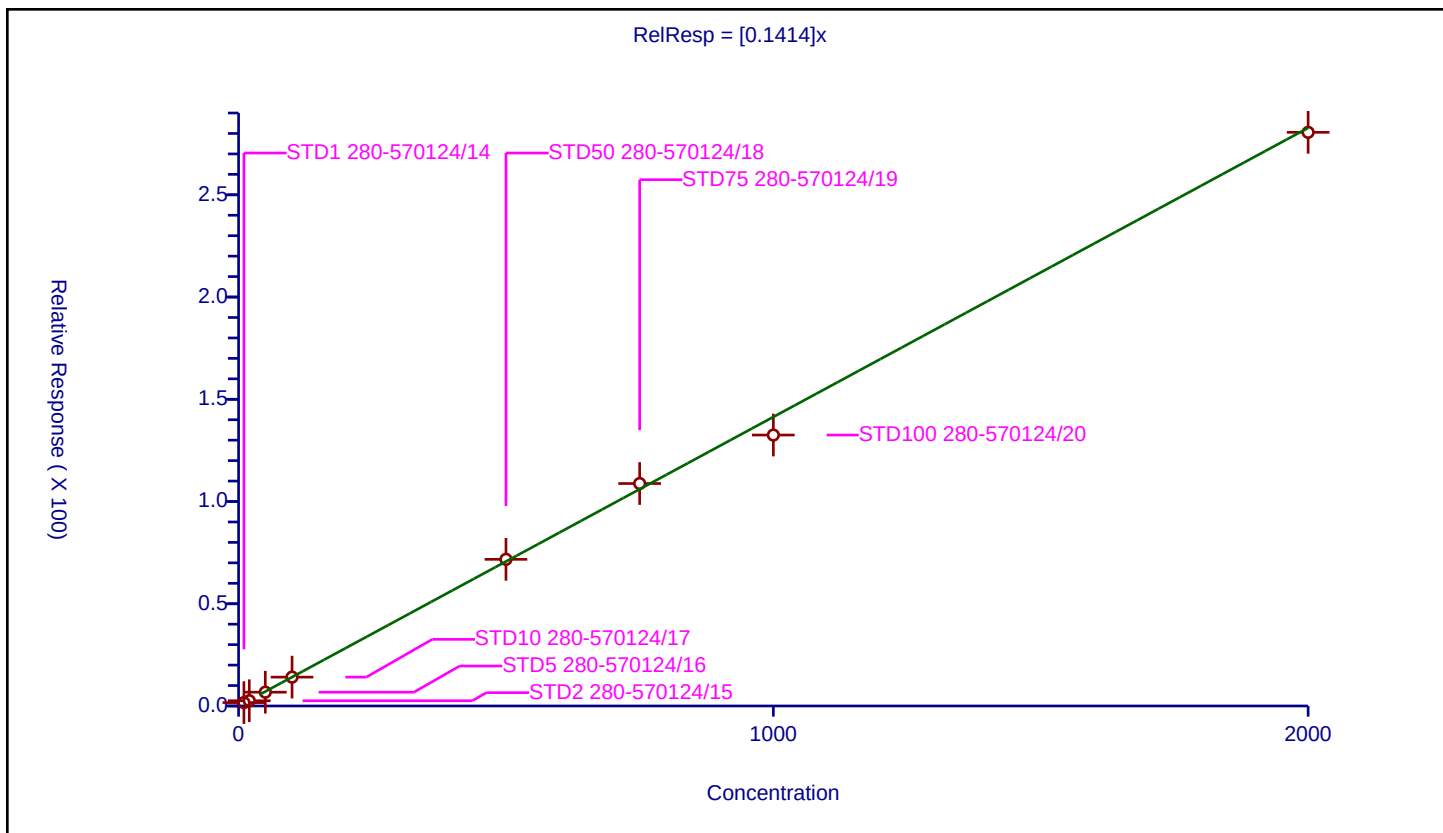
Curve Coefficients

Intercept: 0
 Slope: 0.1414

Error Coefficients

Standard Error: 5730000
 Relative Standard Error: 8.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	10.0	1.654273	50.0	2057822.0	0.165427	Y
2	STD2 280-570124/15	20.0	2.557488	50.0	1993988.0	0.127874	Y
3	STD5 280-570124/16	50.0	6.75484	50.0	2052802.0	0.135097	Y
4	STD10 280-570124/17	100.0	14.119009	50.0	2084470.0	0.14119	Y
5	STD50 280-570124/18	500.0	71.727986	50.0	2144375.0	0.143456	Y
6	STD75 280-570124/19	750.0	108.798754	50.0	2197061.0	0.145065	Y
7	STD100 280-570124/20	1000.0	132.505618	50.0	2223974.0	0.132506	Y
8	STD200 280-570124/21	2000.0	280.553803	50.0	2269508.0	0.140277	Y



Calibration

/ Tert-amyl methyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

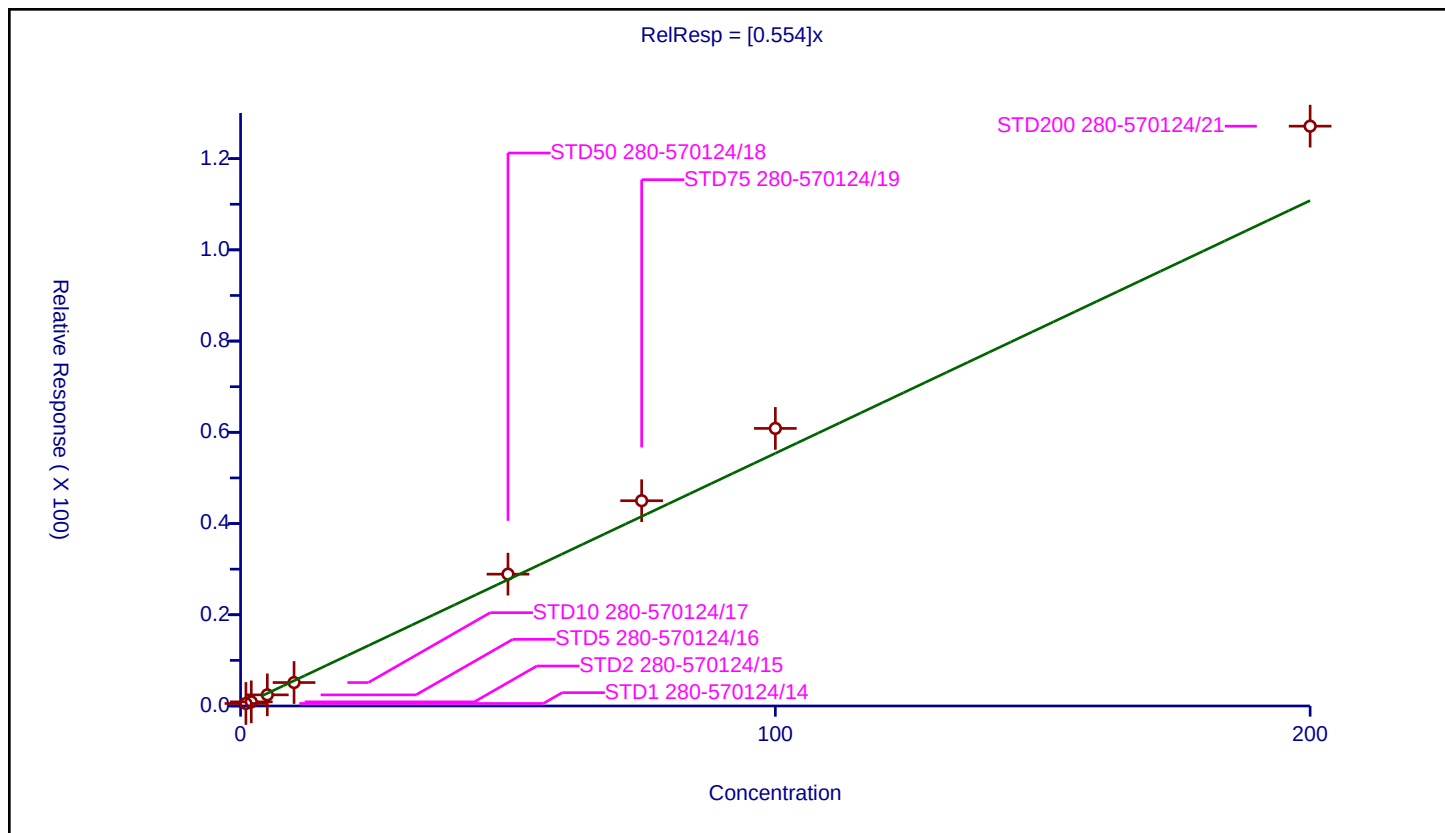
Curve Coefficients

Intercept: 0
Slope: 0.554

Error Coefficients

Standard Error: 2570000
Relative Standard Error: 11.4
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	0.552332	50.0	2057822.0	0.552332	Y
2	STD2 280-570124/15	2.0	0.910988	50.0	1993988.0	0.455494	Y
3	STD5 280-570124/16	5.0	2.441322	50.0	2052802.0	0.488264	Y
4	STD10 280-570124/17	10.0	5.139436	50.0	2084470.0	0.513944	Y
5	STD50 280-570124/18	50.0	28.899166	50.0	2144375.0	0.577983	Y
6	STD75 280-570124/19	75.0	45.003644	50.0	2197061.0	0.600049	Y
7	STD100 280-570124/20	100.0	60.853836	50.0	2223974.0	0.608538	Y
8	STD200 280-570124/21	200.0	127.119468	50.0	2269508.0	0.635597	Y



Calibration

/ n-Butanol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

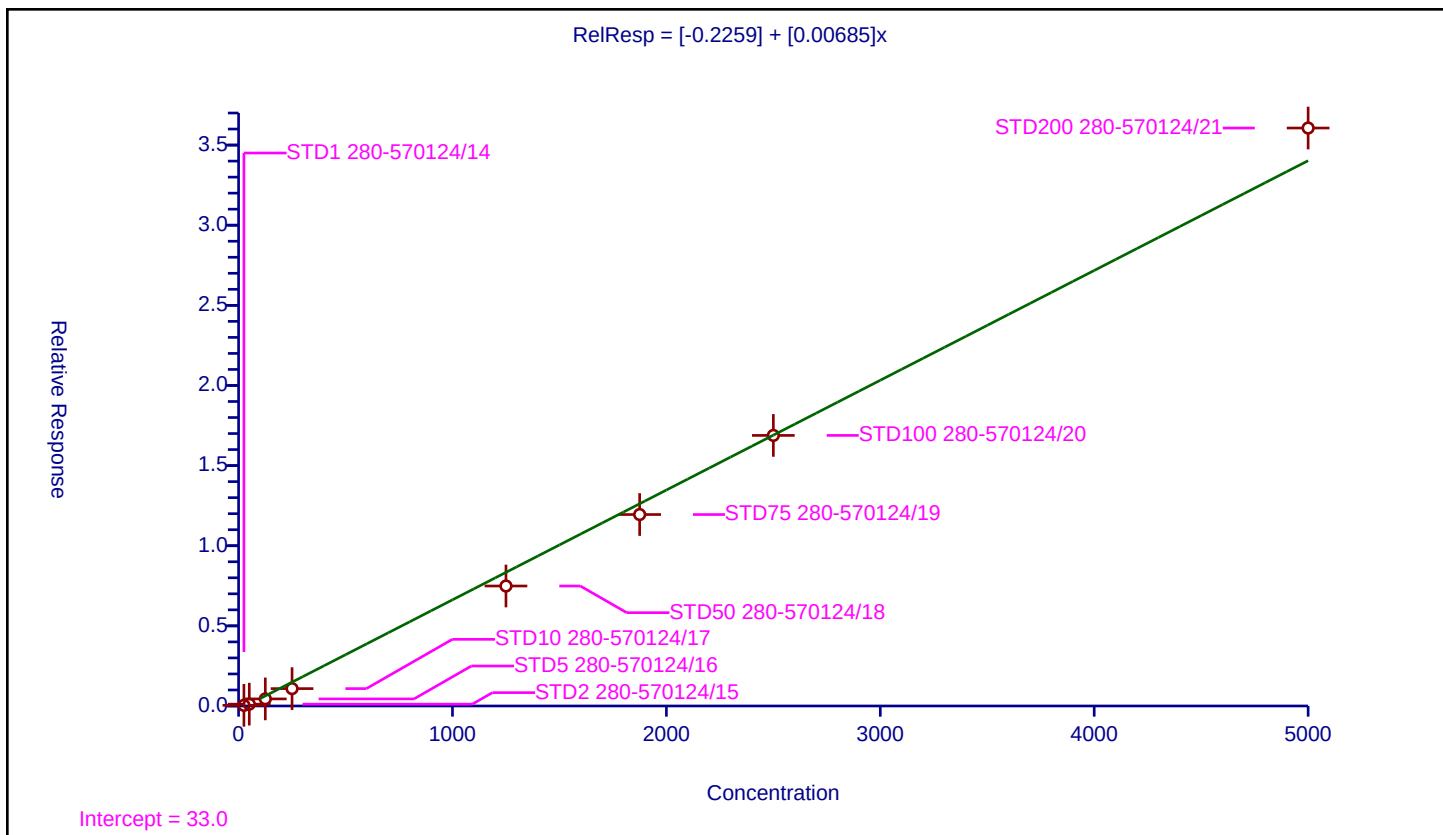
Curve Coefficients

Intercept: -0.2259
 Slope: 0.00685

Error Coefficients

Standard Error: 777000
 Relative Standard Error: 26.7
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	25.0	0.040455	50.0	2057822.0	0.001618	Y
2	STD2 280-570124/15	50.0	0.114118	50.0	1993988.0	0.002282	Y
3	STD5 280-570124/16	125.0	0.442395	50.0	2052802.0	0.003539	Y
4	STD10 280-570124/17	250.0	1.083345	50.0	2084470.0	0.004333	Y
5	STD50 280-570124/18	1250.0	7.486214	50.0	2144375.0	0.005989	Y
6	STD75 280-570124/19	1875.0	11.945595	50.0	2197061.0	0.006371	Y
7	STD100 280-570124/20	2500.0	16.883696	50.0	2223974.0	0.006753	Y
8	STD200 280-570124/21	5000.0	36.063345	50.0	2269508.0	0.007213	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

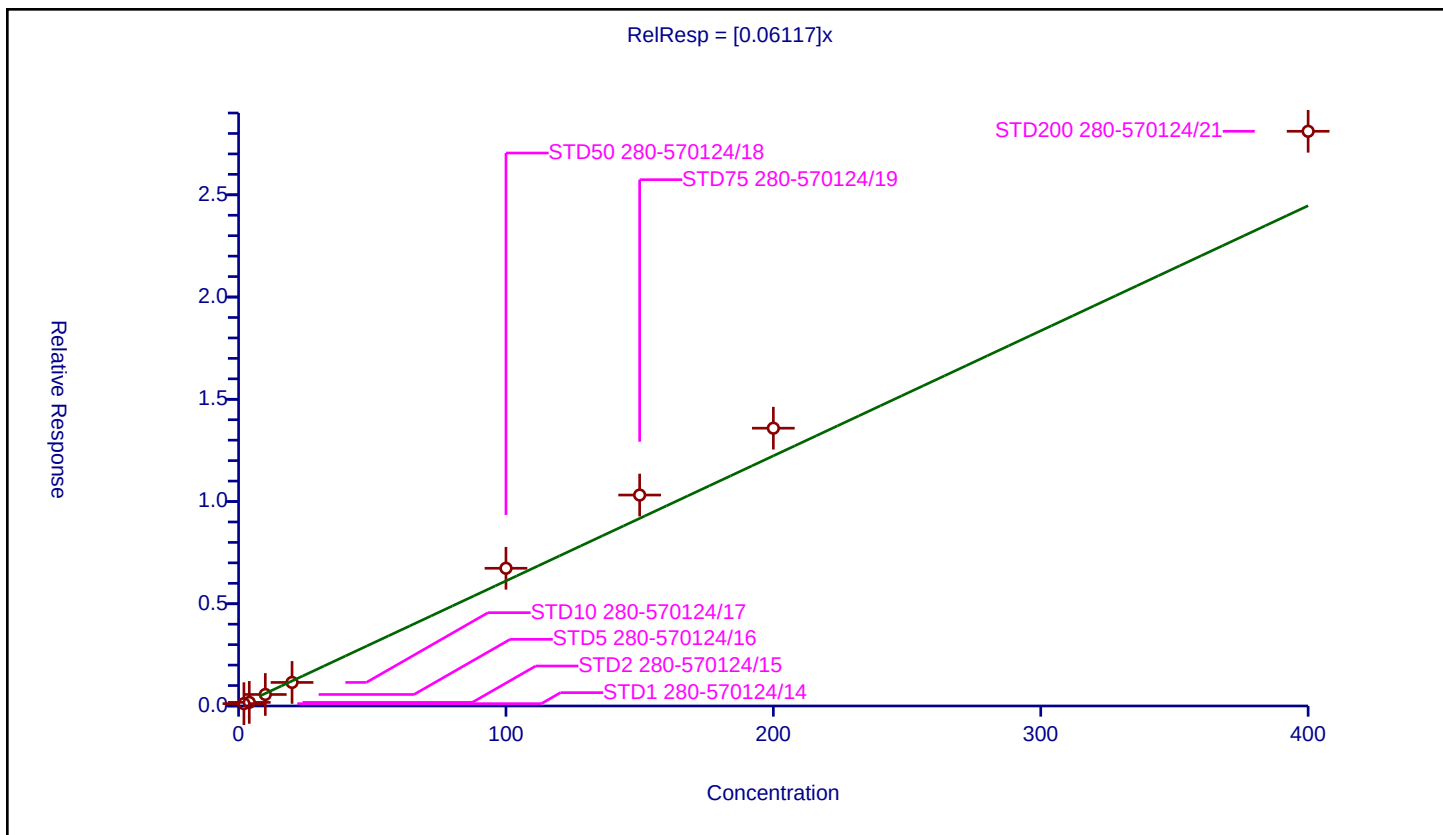
Curve Coefficients

Intercept: 0
 Slope: 0.06117

Error Coefficients

Standard Error: 571000
 Relative Standard Error: 14.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	2.0	0.113469	50.0	2057822.0	0.056735	Y
2	STD2 280-570124/15	4.0	0.177233	50.0	1993988.0	0.044308	Y
3	STD5 280-570124/16	10.0	0.563352	50.0	2052802.0	0.056335	Y
4	STD10 280-570124/17	20.0	1.152259	50.0	2084470.0	0.057613	Y
5	STD50 280-570124/18	100.0	6.735762	50.0	2144375.0	0.067358	Y
6	STD75 280-570124/19	150.0	10.316668	50.0	2197061.0	0.068778	Y
7	STD100 280-570124/20	200.0	13.586647	50.0	2223974.0	0.067933	Y
8	STD200 280-570124/21	400.0	28.107149	50.0	2269508.0	0.070268	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

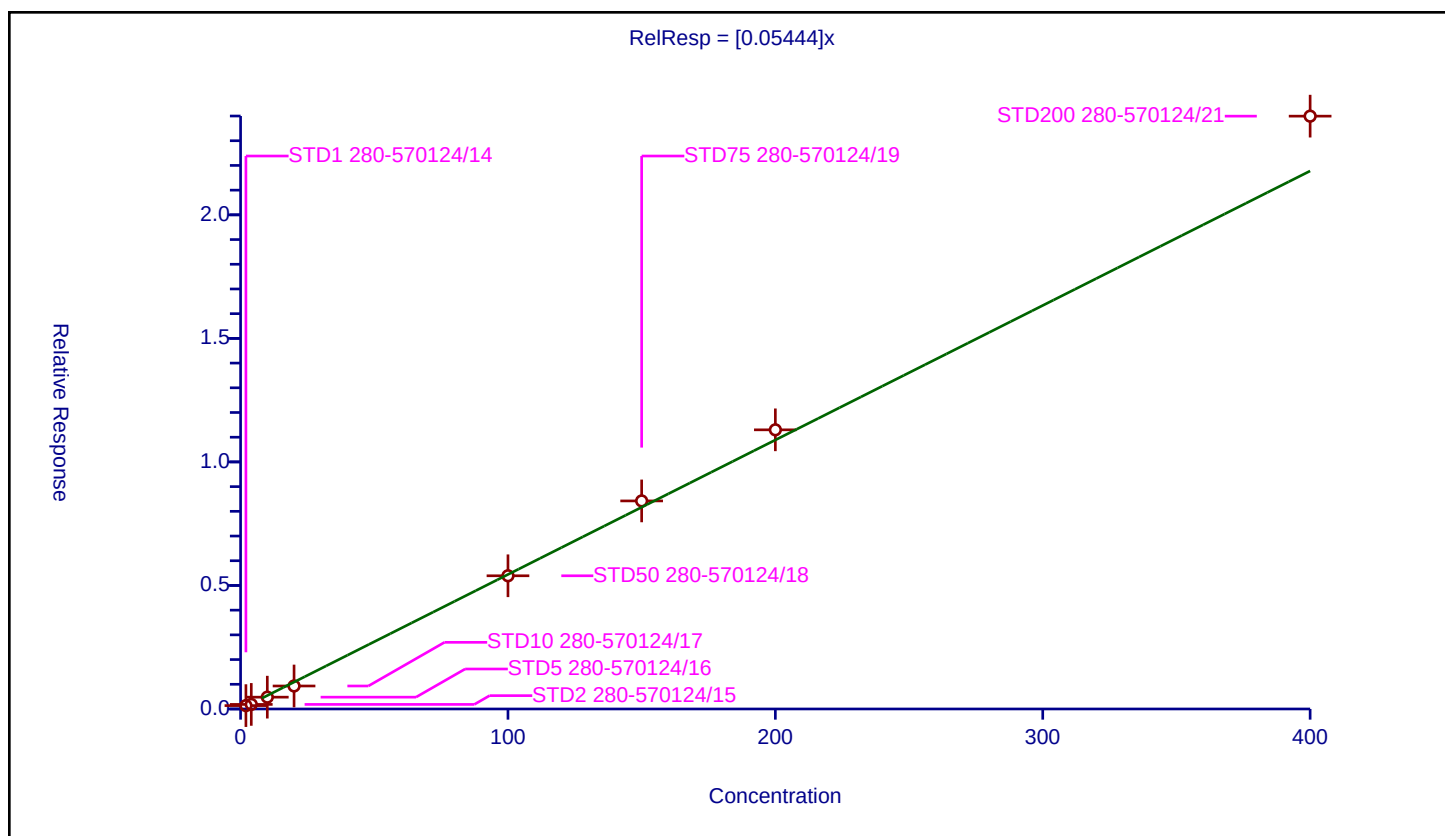
Curve Coefficients

Intercept: 0
Slope: 0.05444

Error Coefficients

Standard Error: 483000
Relative Standard Error: 13.9
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	2.0	0.136455	50.0	2057822.0	0.068227	Y
2	STD2 280-570124/15	4.0	0.185457	50.0	1993988.0	0.046364	Y
3	STD5 280-570124/16	10.0	0.478249	50.0	2052802.0	0.047825	Y
4	STD10 280-570124/17	20.0	0.931076	50.0	2084470.0	0.046554	Y
5	STD50 280-570124/18	100.0	5.391571	50.0	2144375.0	0.053916	Y
6	STD75 280-570124/19	150.0	8.421136	50.0	2197061.0	0.056141	Y
7	STD100 280-570124/20	200.0	11.298244	50.0	2223974.0	0.056491	Y
8	STD200 280-570124/21	400.0	23.994077	50.0	2269508.0	0.059985	Y



Calibration

/ cis-1,4-Dichloro-2-butene

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

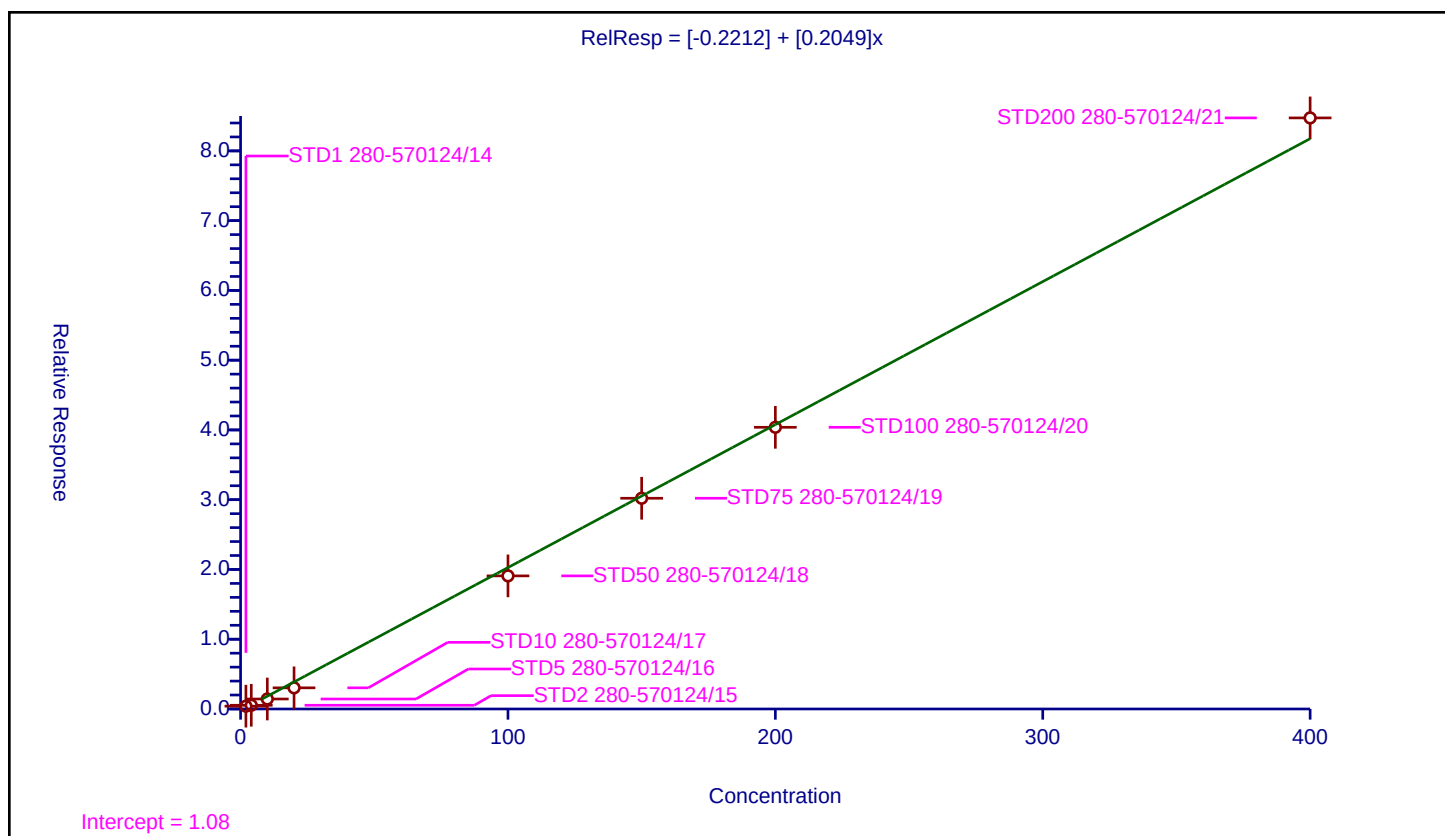
Curve Coefficients

Intercept: -0.2212
Slope: 0.2049

Error Coefficients

Standard Error: 752000
Relative Standard Error: 24.5
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	2.0	0.401504	50.0	847314.0	0.200752	Y
2	STD2 280-570124/15	4.0	0.53386	50.0	819971.0	0.133465	Y
3	STD5 280-570124/16	10.0	1.4326	50.0	828738.0	0.14326	Y
4	STD10 280-570124/17	20.0	3.032702	50.0	826804.0	0.151635	Y
5	STD50 280-570124/18	100.0	19.082015	50.0	857454.0	0.19082	Y
6	STD75 280-570124/19	150.0	30.208521	50.0	879338.0	0.20139	Y
7	STD100 280-570124/20	200.0	40.3806	50.0	898554.0	0.201903	Y
8	STD200 280-570124/21	400.0	84.728624	50.0	928839.0	0.211822	Y



Calibration

/ 1,2,3-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

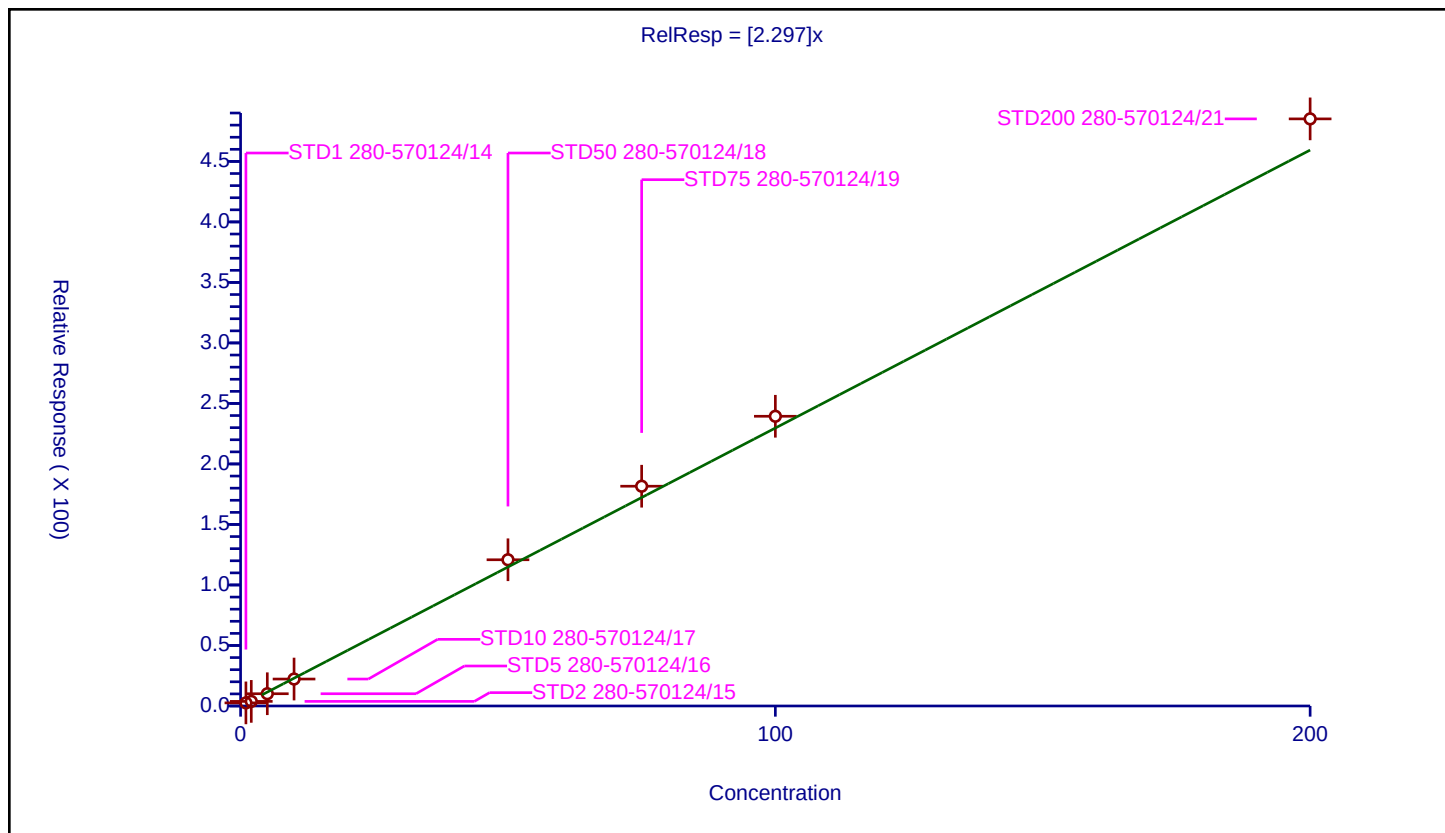
Curve Coefficients

Intercept: 0
 Slope: 2.297

Error Coefficients

Standard Error: 4040000
 Relative Standard Error: 9.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	2.560444	50.0	847314.0	2.560444	Y
2	STD2 280-570124/15	2.0	3.804952	50.0	819971.0	1.902476	Y
3	STD5 280-570124/16	5.0	10.132816	50.0	828738.0	2.026563	Y
4	STD10 280-570124/17	10.0	22.273114	50.0	826804.0	2.227311	Y
5	STD50 280-570124/18	50.0	120.836453	50.0	857454.0	2.416729	Y
6	STD75 280-570124/19	75.0	181.617706	50.0	879338.0	2.421569	Y
7	STD100 280-570124/20	100.0	239.407815	50.0	898554.0	2.394078	Y
8	STD200 280-570124/21	200.0	485.148503	50.0	928839.0	2.425743	Y



Calibration

/ 1,3,5-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

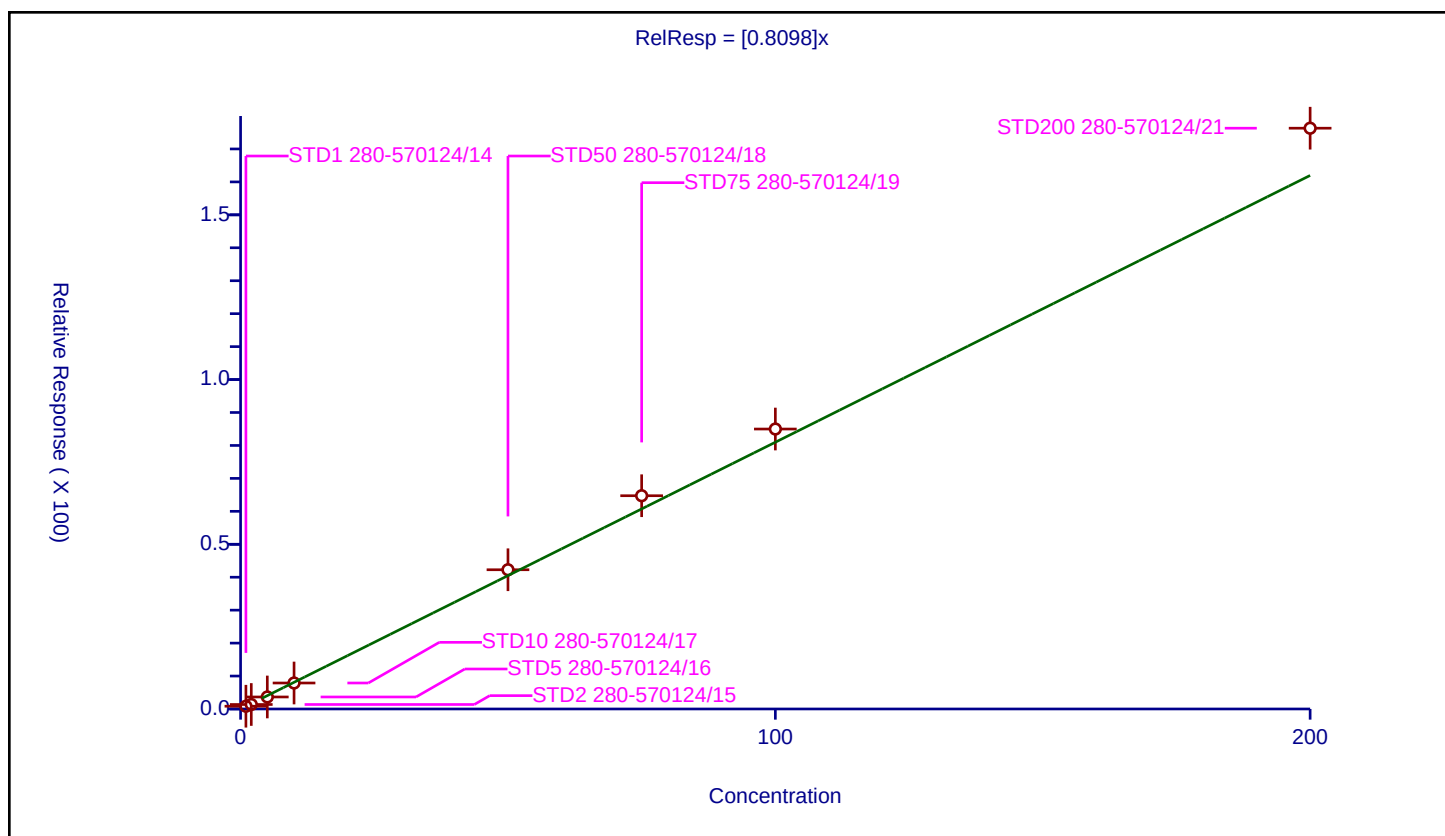
Curve Coefficients

Intercept: 0
Slope: 0.8098

Error Coefficients

Standard Error: 1460000
Relative Standard Error: 8.7
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	0.836467	50.0	847314.0	0.836467	Y
2	STD2 280-570124/15	2.0	1.367304	50.0	819971.0	0.683652	Y
3	STD5 280-570124/16	5.0	3.645302	50.0	828738.0	0.72906	Y
4	STD10 280-570124/17	10.0	7.892136	50.0	826804.0	0.789214	Y
5	STD50 280-570124/18	50.0	42.26699	50.0	857454.0	0.84534	Y
6	STD75 280-570124/19	75.0	64.735119	50.0	879338.0	0.863135	Y
7	STD100 280-570124/20	100.0	84.98699	50.0	898554.0	0.84987	Y
8	STD200 280-570124/21	200.0	176.297076	50.0	928839.0	0.881485	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm)) Heated Purge: (Y/N) N
Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-621220/21	R_6578.D
Level 2	IC 280-621220/20	R_6577.D
Level 3	IC 280-621220/19	R_6576.D
Level 4	IC 280-621220/18	R_6575.D
Level 5	IC 280-621220/17	R_6574.D
Level 6	ICIS 280-621220/16	R_6573.D
Level 7	IC 280-621220/15	R_6572.D
Level 8	IC 280-621220/14	R_6571.D
Level 9	IC 280-621220/13	R_6570.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Dichlorodifluoromethane	+++++ 0.2366	0.1572 0.2258	0.2277 0.2278	0.2831 0.2507	0.2568	Lin1	-0.03 1	0.240 5							0.9970		0.9900
Chloromethane	+++++ 0.3707	0.3363 0.3520	0.4081 0.3677	0.5295 0.3926	0.4250	Lin1	0.083 9	0.378 3			0.1000				0.9960		0.9900
Vinyl chloride	+++++ 0.3051	0.2817 0.2889	0.3075 0.2936	0.4352 0.3115	0.3531	Lin1	0.079 3	0.303 8							0.9960		0.9900
Bromomethane	+++++ 0.1793	0.2039 0.1761	0.2091 0.1821	0.2542 0.1833	0.2115	Ave		0.199 9			13.0		15.0				
Chloroethane	+++++ 0.1828	0.1843 0.1734	0.2128 0.1775	0.2474 0.1849	0.2133	Ave		0.197 1			12.9		15.0				
Dichlorofluoromethane	+++++ 0.4349	0.4228 0.4128	0.4921 0.4231	0.6007 0.4478	0.4762	Ave		0.463 8			13.3		15.0				
Trichlorofluoromethane	+++++ 0.3087	0.2684 0.3038	0.3559 0.3218	0.4051 0.3656	0.3507	Ave		0.335 0			12.8		15.0				
Ethyl ether	+++++ 0.2106	0.1929 0.2112	0.2004 0.2125	0.2307 0.2146	0.2048	Ave		0.209 7			5.3		15.0				
Acrolein	+++++ 0.0374	0.0272 0.0368	0.0333 0.0381	0.0354 0.0382	0.0351	Ave		0.035 2			10.3		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.1398	0.1076 0.1468	0.1279 0.1368	0.1664 0.1408	0.1431	Ave		0.138 6			12.0		15.0				
1,1-Dichloroethene	+++++ 0.1857	0.1572 0.1918	0.1822 0.1858	0.2407 0.1913	0.2090	Ave		0.193 0			12.4		30.0				
Acetone	+++++ 0.0865	0.3047 0.0834	0.1976 0.0854	0.1281 0.0829	0.1028	Lin2	0.897 6	0.082 1							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Iodomethane	++++ 0.2674	0.2615 0.2631	0.2747 0.2505	0.3280 0.2289	0.2818	Ave		0.269 5				10.6		15.0			
Carbon disulfide	++++ 0.6868	0.7516 0.7143	0.7815 0.6865	0.9898 0.6927	0.8082	Ave		0.763 9				13.4		15.0			
Methyl acetate	++++ 0.2192	0.1564 0.2146	0.2012 0.2225	0.2007 0.2199	0.2020	Ave		0.204 6				10.5		15.0			
Allyl chloride	++++ 0.4324	0.5216 0.4376	0.4991 0.4292	0.5922 0.4293	0.4799	Ave		0.477 7				12.2		15.0			
Methylene Chloride	++++ 0.2436	0.2550 0.2474	0.2731 0.2485	0.3165 0.2442	0.2610	Ave		0.261 2				9.4		15.0			
2-Methyl-2-propanol	++++ 0.0240	0.0169 0.0246	0.0202 0.0258	0.0201 0.0249	0.0227	Ave		0.022 4				13.7		15.0			
Acrylonitrile	++++ 0.1059	0.0777 0.1053	0.0957 0.1084	0.0995 0.1097	0.1010	Ave		0.100 4				10.3		15.0			
Methyl tert-butyl ether	++++ 0.6540	0.5045 0.6683	0.5697 0.6814	0.6641 0.7029	0.6299	Ave		0.634 3				10.4		15.0			
trans-1,2-Dichloroethene	++++ 0.2150	0.2117 0.2217	0.2133 0.2152	0.2982 0.2233	0.2406	Ave		0.229 9				12.7		15.0			
Hexane	++++ 1.3313	0.9272 1.3890	1.1492 1.3474	1.4639 1.4103	1.3768	Ave		1.299 4				13.6		15.0			
Vinyl acetate	++++ 0.5494	0.3111 0.5484	0.3510 0.5681	0.4837 0.6172	0.4749	Lin2	-0.55 9	0.552 5							0.9920		0.9900
1,1-Dichloroethane	++++ 0.4617	0.4461 0.4671	0.4496 0.4613	0.5966 0.4787	0.4937	Ave		0.481 8		0.1000		10.1		15.0			
2-Butanone (MEK)	++++ 0.1374	0.1125 0.1333	0.1141 0.1386	0.1150 0.1397	0.1138	Ave		0.125 6				10.1		15.0			
cis-1,2-Dichloroethene	++++ 0.2467	0.2222 0.2482	0.2483 0.2474	0.3057 0.2532	0.2543	Ave		0.253 2				9.3		15.0			
2,2-Dichloropropane	++++ 0.3372	0.2435 0.3497	0.3117 0.3466	0.4144 0.3636	0.3557	Ave		0.340 3				14.3		15.0			
sec-Butyl Alcohol	++++ 0.0230	0.0118 0.0235	0.0164 0.0245	0.0177 0.0242	0.0203	Lin2	-0.28 9	0.023 0							0.9940		0.9900
Chlorobromomethane	++++ 0.1082	0.1044 0.1064	0.1013 0.1044	0.1175 0.1027	0.1071	Ave		0.106 5				4.7		15.0			
Tetrahydrofuran	++++ 0.0909	0.0606 0.0901	0.0700 0.0915	0.0752 0.0941	0.0833	Ave		0.082 0				14.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chloroform	++++ 0.4169	0.3808 0.4162	0.4157 0.4137	0.5230 0.4232	0.4281	Ave		0.427 2				9.6		30.0			
1,1,1-Trichloroethane	++++ 0.3220	0.2717 0.3342	0.3077 0.3243	0.4362 0.3310	0.3505	Ave		0.334 7				14.1		15.0			
Cyclohexane	++++ 0.4140	0.3002 0.4505	0.3804 0.4246	0.4832 0.4482	0.4357	Ave		0.417 1				13.4		15.0			
1,1-Dichloropropene	++++ 0.3310	0.2754 0.3489	0.2998 0.3326	0.4186 0.3509	0.3480	Ave		0.338 2				12.4		15.0			
Carbon tetrachloride	++++ 0.2762	0.2322 0.2944	0.2706 0.2800	0.3418 0.2990	0.2961	Ave		0.286 3				10.8		15.0			
Isobutyl alcohol	++++ 0.0099	0.0066 0.0101	0.0064 0.0101	0.0080 0.0105	0.0087	Lin2	-0.09 9	0.009 7							0.9900		0.9900
Benzene	++++ 0.9705	0.8546 0.9878	0.9329 0.9808	1.2515 0.9999	1.0302	Ave		1.001 0				11.4		15.0			
1,2-Dichloroethane	++++ 0.3391	0.3318 0.3372	0.3235 0.3419	0.3788 0.3503	0.3398	Ave		0.342 8				4.8		15.0			
n-Heptane	++++ 0.2950	0.2334 0.3193	0.2709 0.3165	0.3080 0.3522	0.2880	Ave		0.297 9				11.9		15.0			
Trichloroethene	++++ 0.9230	0.7658 0.9344	0.9864 0.9134	1.2614 0.8919	1.0419	Ave		0.964 8				14.9		15.0			
2-Pentanone	++++ 0.2064	0.1082 0.2078	0.1341 0.2159	0.1637 0.2183	0.1733	Lin2	-0.34 6	0.203 4							0.9930		0.9900
Methylcyclohexane	++++ 0.2998	0.2165 0.3240	0.2588 0.3113	0.3481 0.3378	0.3083	Ave		0.300 6				14.4		15.0			
1,2-Dichloropropane	++++ 0.2760	0.2318 0.2824	0.2539 0.2850	0.3208 0.2945	0.2879	Ave		0.279 1				9.6		30.0			
1,4-Dioxane	++++ 0.0034	0.0014 0.0033	0.0029 0.0035	0.0033 0.0032	0.0035	Lin2	-0.03 8	0.003 5							0.9940		0.9900
Dibromomethane	++++ 0.1487	0.1316 0.1470	0.1531 0.1503	0.1661 0.1540	0.1497	Ave		0.150 1				6.3		15.0			
Dichlorobromomethane	++++ 0.3296	0.2830 0.3340	0.3018 0.3381	0.3756 0.3413	0.3222	Ave		0.328 2				8.4		15.0			
2-Chloroethyl vinyl ether	++++ 0.1695	0.0931 0.1728	0.1237 0.1760	0.1433 0.1778	0.1427	Lin2	-0.08 1	0.168 5							0.9960		0.9900
cis-1,3-Dichloropropene	++++ 1.7482	1.3018 1.6861	1.4888 1.7240	1.8345 1.7312	1.6464	Ave		1.645 1				10.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
4-Methyl-2-pentanone (MIBK)	++++ 0.2850	0.1859 0.2845	0.2186 0.2973	0.2474 0.3022	0.2493	Lin2	-0.43 4	0.283 8							0.9960		0.9900
Toluene	++++ 0.9983	0.9021 1.0198	0.9938 1.0097	1.2703 1.0484	1.0481	Ave		1.036 3				10.1		30.0			
trans-1,3-Dichloropropene	++++ 0.3868	0.2995 0.3887	0.2993 0.3976	0.3806 0.4196	0.3590	Ave		0.366 4				12.2		15.0			
Ethyl methacrylate	++++ 1.3422	0.6606 1.2894	0.8692 1.3195	1.0526 1.3430	1.1415	Lin2	-0.68 6	1.285 8							0.9960		0.9900
1,1,2-Trichloroethane	++++ 0.2096	0.1738 0.2098	0.1952 0.2127	0.2210 0.2131	0.2042	Ave		0.204 9				7.1		15.0			
Tetrachloroethene	++++ 0.6523	0.5488 0.6530	0.6209 0.6384	0.8174 0.6467	0.6813	Ave		0.657 4				11.5		15.0			
1,3-Dichloropropane	++++ 1.6290	1.3241 1.5867	1.4201 1.6042	1.7335 1.6186	1.5532	Ave		1.558 7				8.3		15.0			
2-Hexanone	++++ 0.7928	0.4651 0.7655	0.4908 0.8071	0.6280 0.8100	0.6666	Lin2	-1.43 1	0.760 9							0.9920		0.9900
Chlorodibromomethane	++++ 0.9551	0.7953 0.9301	0.9041 0.9483	1.0046 0.9543	0.9427	Ave		0.929 3				6.6		15.0			
1,2-Dibromoethane	++++ 0.8822	0.6743 0.8630	0.8811 0.8862	0.8667 0.8753	0.8405	Ave		0.846 2				8.4		15.0			
1-Chlorohexane	++++ 1.2310	1.1568 1.2724	1.2397 1.2381	1.4270 1.2823	1.2110	Ave		1.257 3				6.3		15.0			
Chlorobenzene	++++ 2.5497	2.4585 2.5207	2.4957 2.5443	3.1509 2.5643	2.6419	Ave		2.615 7		0.3000		8.5		15.0			
1,1,1,2-Tetrachloroethane	++++ 0.8883	0.7821 0.8802	0.8060 0.8968	1.0017 0.9183	0.8920	Ave		0.883 2				7.6		15.0			
Ethylbenzene	++++ 1.3604	1.1193 1.3787	1.2624 1.3858	1.6857 1.4397	1.4179	Ave		1.381 3				11.6		30.0			
m-Xylene & p-Xylene	++++ 1.6745	1.3554 1.6859	1.5383 1.6755	2.0310 1.7103	1.7344	Ave		1.675 7				11.3		15.0			
o-Xylene	++++ 1.6818	1.2362 1.6877	1.3671 1.6927	1.8902 1.7549	1.6610	Ave		1.621 5				13.1		15.0			
Styrene	++++ 2.8407	1.9201 2.8322	2.2749 2.8878	3.0159 2.9962	2.7376	Ave		2.688 2				14.4		15.0			
Bromoform	++++ 0.6423	0.5044 0.6216	0.5677 0.6277	0.6162 0.6378	0.5923	Ave		0.601 2		0.1000		7.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Isopropylbenzene	++++ 2.5705	1.8934 2.6444	2.2643 2.6014	3.0608 2.5852	2.6775	Ave		2.537 2				13.3		15.0			
Cyclohexanone	++++ 0.0576	0.0370 0.0556	0.0398 0.0595	0.0467 0.0514	0.0582	Lin2	-0.65 1	0.055 7							0.9930		0.9900
1,1,2,2-Tetrachloroethane	++++ 0.7655	0.6557 0.7608	0.7407 0.7610	0.8055 0.7180	0.7508	Ave		0.744 8			0.3000	5.9		15.0			
Bromobenzene	++++ 0.6326	0.5754 0.6372	0.6207 0.6395	0.7240 0.6221	0.6303	Ave		0.635 2				6.5		15.0			
trans-1,4-Dichloro-2-butene	++++ 0.2419	0.1777 0.2440	0.1929 0.2559	0.2194 0.2436	0.2271	Ave		0.225 3				12.2		15.0			
1,2,3-Trichloropropane	++++ 0.2049	0.1191 0.2010	0.1839 0.2052	0.2071 0.1953	0.2008	Lin2	-0.07 8	0.207 7							0.9970		0.9900
N-Propylbenzene	++++ 0.7022	0.5485 0.7257	0.6278 0.7090	0.8517 0.6907	0.7472	Ave		0.700 3				12.6		15.0			
2-Chlorotoluene	++++ 0.6217	0.5628 0.6332	0.5761 0.6249	0.7507 0.6114	0.6602	Ave		0.630 1				9.2		15.0			
1,3,5-Trimethylbenzene	++++ 2.1431	1.5983 2.1871	1.8030 2.1584	2.5875 2.1581	2.2256	Ave		2.107 6				14.0		15.0			
4-Chlorotoluene	++++ 0.6540	0.5197 0.6611	0.6160 0.6617	0.7837 0.6462	0.6838	Ave		0.653 3				11.2		15.0			
tert-Butylbenzene	++++ 1.7371	1.3492 1.7958	1.5071 1.7526	2.0700 1.7524	1.8023	Ave		1.720 8				12.4		15.0			
1,2,4-Trimethylbenzene	++++ 2.2414	1.5743 2.2728	1.7568 2.2739	2.6145 2.2748	2.2794	Lin2	-0.78 0	2.341 2							0.9920		0.9900
sec-Butylbenzene	++++ 0.4934	0.3465 0.5090	0.4112 0.5014	0.5651 0.5059	0.5453	Ave		0.484 7				14.8		15.0			
1,3-Dichlorobenzene	++++ 1.1693	1.1420 1.1785	1.1389 1.1883	1.3891 1.1853	1.2298	Ave		1.202 7				6.7		15.0			
4-Isopropyltoluene	++++ 2.1794	1.4271 2.2674	1.7257 2.2400	2.5277 2.2884	2.2791	Lin2	-0.89 5	2.323 5							0.9930		0.9900
1,4-Dichlorobenzene	++++ 1.1978	1.3050 1.2298	1.2776 1.2227	1.4480 1.2204	1.2600	Ave		1.270 2				6.3		15.0			
n-Butylbenzene	++++ 2.0515	1.1765 2.1229	1.5718 2.0957	2.2572 2.1769	2.0592	Lin2	-0.98 8	2.167 2							0.9960		0.9900
1,2-Dichlorobenzene	++++ 1.1359	1.0122 1.1306	1.0287 1.1427	1.2782 1.1347	1.1654	Ave		1.128 6				7.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm)) Heated Purge: (Y/N) N
Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.1237	0.0825 0.1204	0.1224 0.1307	0.1168 0.1066	0.1340	Ave		0.117 2				13.9		15.0			
1,2,4-Trichlorobenzene	+++++ 0.5721	0.5078 0.5674	0.5041 0.5939	0.6067 0.5286	0.6056	Ave		0.560 8				7.5		15.0			
Hexachlorobutadiene	+++++ 0.2416	0.2585 0.2476	0.2859 0.2504	0.3243 0.2328	0.2738	Ave		0.264 4				11.2		15.0			
Naphthalene	+++++ 1.5008	1.1684 1.4671	1.3022 1.6204	1.4221 +++++	1.8722	Lin1	-0.30 4	1.559 0							0.9960		0.9900
1,2,3-Trichlorobenzene	+++++ 0.4152	0.5211 0.3981	0.5479 0.4594	0.5439 +++++	0.7283	Qua	1.360 6	0.313 0	0.0012380						0.9920		0.9900
Dibromofluoromethane (Surr)	+++++ 0.2606	0.2699 0.2615	0.2655 0.2586	0.2636 0.2597	0.2625	Ave		0.262 7				1.4		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3105	0.3099 0.3128	0.3209 0.3113	0.3163 0.3157	0.3151	Ave		0.314 1				1.2		15.0			
Toluene-d8 (Surr)	+++++ 4.3490	4.3658 4.2416	4.3553 4.2369	4.3601 4.1757	4.3682	Ave		4.306 6				1.8		15.0			
4-Bromofluorobenzene (Surr)	+++++ 0.9609	0.9965 0.9680	0.9842 0.9649	0.9729 0.9182	0.9793	Ave		0.968 1				2.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-621220/21	R_6578.D
Level 2	IC 280-621220/20	R_6577.D
Level 3	IC 280-621220/19	R_6576.D
Level 4	IC 280-621220/18	R_6575.D
Level 5	IC 280-621220/17	R_6574.D
Level 6	ICIS 280-621220/16	R_6573.D
Level 7	IC 280-621220/15	R_6572.D
Level 8	IC 280-621220/14	R_6571.D
Level 9	IC 280-621220/13	R_6570.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Lin1	+++++ 548334	6696 766217	19853 1031654	61186 2215600	113811	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Lin1	+++++ 859120	14329 1194541	35575 1664980	114452 3470624	188369	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Lin1	+++++ 707184	12004 980486	26808 1329538	94067 2753875	156488	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Ave	+++++ 415621	8686 597574	18232 824738	54940 1620049	93726	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	+++++ 423539	7852 588652	18555 803546	53484 1634653	94553	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	+++++ 1007920	18012 1400941	42905 1915693	129853 3958551	211074	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	+++++ 715490	11436 1031109	31031 1457036	87559 3231552	155446	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl ether	FB	Ave	+++++ 488077	8219 716676	17467 962214	49874 1897322	90791	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	+++++ 855254	11446 1233556	28663 1702729	75486 3333260	153444	+++++ 494	9.88 741	19.8 988	49.4 1975	98.8
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 323952	4583 498080	11153 619288	35957 1244660	63442	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloroethene	FB	Ave	+++++ 430475	6698 650818	15881 841357	52020 1690695	92629	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin2	+++++ 802061	51936 1131804	68921 1546410	110795 2929595	182170	+++++ 200	4.00 300	8.00 400	20.0 800	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Iodomethane	FB	Ave	++++ 619730	11142 892854	23950 1134380	70900 2023694	124898	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon disulfide	FB	Ave	++++ 1591721	32024 2424170	68130 3108561	213941 6122985	358214	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methyl acetate	FB	Ave	++++ 1016078	13331 1456924	35079 2014503	86749 3888163	179016	++++ 100	2.00 150	4.00 200	10.0 400	20.0
Allyl chloride	FB	Ave	++++ 1002023	22225 1485205	43513 1943342	128009 3795127	212717	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methylene Chloride	FB	Ave	++++ 564598	10866 839681	23805 1125025	68405 2158809	115656	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Methyl-2-propanol	FB	Ave	++++ 556892	7203 835074	17585 1169599	43391 2199957	100677	++++ 500	10.0 750	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Ave	++++ 2453164	33096 3572836	83404 4909182	215091 9700712	447455	++++ 500	10.0 750	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	++++ 1515605	21493 2268293	49670 3085246	143551 6213270	279164	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	++++ 498341	9021 752281	18595 974383	64452 1973593	106642	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexane	CBNZ d5	Ave	++++ 760611	9556 1194899	24488 1538153	77719 3240132	148854	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Lin2	++++ 2546613	26510 3722513	61193 5144856	209098 10910588	420980	++++ 100	2.00 150	4.00 200	10.0 400	20.0
1,1-Dichloroethane	FB	Ave	++++ 1070040	19006 1585426	39196 2088576	128955 4231248	218815	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Ave	++++ 1274194	19181 1809265	39792 2510535	99435 4939144	201803	++++ 200	4.00 300	8.00 400	20.0 800	40.0
cis-1,2-Dichloroethene	FB	Ave	++++ 571830	9468 842235	21643 1120130	66080 2237903	112706	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	++++ 781566	10373 1186989	27174 1569220	89579 3214207	157647	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butyl Alcohol	FB	Lin2	++++ 1279159	12099 1911783	34401 2663600	91744 5125962	216271	++++ 1200	24.0 1800	48.0 2400	120 4800	240
Chlorobromomethane	FB	Ave	++++ 250866	4450 361127	8831 472520	25398 907859	47468	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	++++	5160	12203	32518	73805	++++	2.00	4.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
			421494	611656	828860	1663525		100	150	200	400	
Chloroform	FB	Ave	++++ 966168	16225 1412512	36242 1873112	113049 3740472	189739	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	++++ 746314	11578 1134362	26827 1468330	94276 2925532	155362	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	++++ 959529	12789 1528914	33163 1922460	104440 3961872	193127	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	++++ 767187	11732 1184180	26135 1505976	90479 3102133	154249	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	++++ 640170	9895 999173	23587 1267862	73876 2643277	131213	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isobutyl alcohol	FB	Lin2	++++ 575910	7066 857785	13964 1142966	42989 2311616	96074	++++ 1250	25.0 1875	50.0 2500	125 5000	250
Benzene	FB	Ave	++++ 2249126	36412 3352499	81329 4440913	270519 8838474	456571	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	++++ 785810	14138 1144315	28202 1548263	81888 3096182	150604	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Heptane	FB	Ave	++++ 683710	9946 1083746	23619 1433082	66579 3113623	127626	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichloroethene	CBNZ d5	Ave	++++ 527324	7893 803857	21019 1042765	66968 2049227	112641	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Pentanone	FB	Lin2	++++ 1530656	14749 2257078	37402 3128162	113217 6174920	245765	++++ 160	3.20 240	6.40 320	16.0 640	32.0
Methylcyclohexane	FB	Ave	++++ 694844	9224 1099640	22565 1409440	75253 2985935	136641	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	++++ 639681	9878 958355	22131 1290602	69351 2603464	127611	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Lin2	++++ 158279	1175 226630	5021 320839	14449 557091	31266	++++ 1000	20.0 1500	40.0 2000	100 4000	200
Dibromomethane	FB	Ave	++++ 344598	5609 498786	13348 680405	35897 1361023	66367	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorobromomethane	FB	Ave	++++ 763899	12059 1133538	26308 1530828	81197 3016993	142796	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Lin2	++++ 392791	3965 586331	10785 796708	30964 1571450	63225	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
cis-1,3-Dichloropropene	CBNZ d5	Ave	++++ 998764	13417 1450482	31725 1968123	97399 3977432	178003	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	FB	Lin2	++++ 2641791	31680 3862274	76213 5383926	213872 10684572	441994	++++ 200	4.00 300	8.00 400	20.0 800	40.0
Toluene	FB	Ave	++++ 2313578	38437 3461200	86643 4571984	274576 9267499	464525	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	FB	Ave	++++ 896343	12761 1319067	26091 1800512	82262 3708829	159104	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBNZ d5	Lin2	++++ 766834	6808 1109241	18523 1506316	55885 3085420	123415	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	FB	Ave	++++ 485834	7404 711925	17015 963287	47759 1883866	90498	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrachloroethene	CBNZ d5	Ave	++++ 372700	5656 561783	13231 728834	43399 1485811	73658	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 930686	13647 1365020	30261 1831349	92034 3718727	167922	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Hexanone	CBNZ d5	Lin2	++++ 1811684	19174 2634190	41835 3685378	133361 7443497	288294	++++ 200	4.00 300	8.00 400	20.0 800	40.0
Chlorodibromomethane	CBNZ d5	Ave	++++ 545680	8197 800156	19266 1082615	53337 2192574	101920	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dibromoethane	CBNZ d5	Ave	++++ 504040	6950 742397	18776 1011739	46017 2011062	90874	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1-Chlorohexane	CBNZ d5	Ave	++++ 562640	9538 875683	21134 1130721	60610 2356797	104743	++++ 40.0	0.800 60.0	1.60 80.0	4.00 160	8.00
Chlorobenzene	CBNZ d5	Ave	++++ 1456681	25339 2168496	53183 2904541	167285 5891452	285626	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 507502	8061 757229	17176 1023755	53181 2109722	96439	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBNZ d5	Ave	++++ 777251	11536 1186090	26902 1582081	89495 3307690	153297	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	++++ 956654	13969 1450363	32780 1912768	107828 3929461	187510	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
o-Xylene	CBNZ d5	Ave	++++ 960855	12741 1451896	29132 1932392	100357 4031894	179582	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Styrene	CBNZ d5	Ave	++++ 1622960	19790 2436423	48478 3296701	160118 6883608	295970	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromoform	CBNZ d5	Ave	++++ 366937	5199 534780	12098 716609	32713 1465246	64033	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isopropylbenzene	DCBd 4	Ave	++++ 2358022	29910 3579071	75615 4731687	257514 9839927	456379	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexanone	CBNZ d5	Lin2	++++ 987745	11429 1435329	25458 2036537	74435 3539601	188883	++++ 1500	30.0 2250	60.0 3000	150 6000	300
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	++++ 702218	10358 1029723	24736 1384139	67770 2732989	127980	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromobenzene	DCBd 4	Ave	++++ 580341	9089 862413	20729 1163113	60912 2367884	107428	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 221952	2807 330245	6441 465433	18458 927271	38713	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCBd 4	Lin2	++++ 187920	1881 272092	6141 373197	17422 743218	34230	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
N-Propylbenzene	DCBd 4	Ave	++++ 644130	8665 982181	20966 1289540	71656 2628869	127369	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCBd 4	Ave	++++ 570282	8891 856999	19237 1136637	63157 2327205	112532	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 1965960	25247 2960232	60209 3925819	217693 8214196	379363	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCBd 4	Ave	++++ 599944	8209 894813	20572 1203492	65936 2459537	116560	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCBd 4	Ave	++++ 1593556	21313 2430544	50328 3187698	174154 6670099	307203	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCBd 4	Lin2	++++ 2056135	24869 3076103	58668 4135989	219968 8658379	388533	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCBd 4	Ave	++++ 452586	5474 688939	13731 911962	47548 1925732	92941	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	++++ 1072692	18040 1595004	38033 2161403	116868 4511704	209616	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Isopropyltoluene	DCBd 4	Lin2	++++ 1999249	22544 3068901	57628 4074345	212668 8710257	388476	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 1098799	20615 1664489	42663 2223906	121829 4645291	214777	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCBd 4	Lin2	++++ 1881966	18584 2873279	52488 3811906	189903 8285895	350991	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 1042034	15990 1530264	34352 2078418	107544 4319014	198648	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179475-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 113504	1304 163021	4088 237642	9831 405666	22842	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 524831	8022 767923	16835 1080141	51045 2011893	103227	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 221636	4083 335148	9548 455388	27285 886171	46668	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Naphthalene	DCBd 4	Lin1	++++ 1376775	18457 1985671	43486 2947363	119645 ++++	319121	++++ 50.0	1.00 75.0	2.00 100	5.00 ++++	10.0
1,2,3-Trichlorobenzene	DCBd 4	Qua	++++ 380888	8231 538767	18298 835581	45763 ++++	124142	++++ 50.0	1.00 75.0	2.00 100	5.00 ++++	10.0
Dibromofluoromethane (Surr)	FB	Ave	++++ 603951	574971 591676	578558 585411	569705 573951	581727	++++ 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	++++ 719542	660159 707774	699506 704789	683676 697754	698218	++++ 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	++++ 2484696	2249817 2432638	2320241 2418443	2314856 2398402	2361298	++++ 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	++++ 881473	787072 873420	821693 877534	818556 873694	834644	++++ 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6570.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 30-Jul-2023 16:32:30 ALS Bottle#: 3 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 200
 Misc. Info.: 280-0124001-013
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:50:52 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:45:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2209843	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	574369	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	951559	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	573951	50.0	49.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.579	-0.004	0	697754	50.0	50.3	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2398402	50.0	48.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	85	873694	50.0	47.4	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	2215600	200.0	208.6	
10 Chloromethane	50	1.715	1.715	0.000	99	3470624	200.0	207.3	
11 Vinyl chloride	62	1.801	1.805	-0.004	98	2753875	200.0	204.9	
13 Bromomethane	94	2.056	2.071	-0.015	91	1620049	200.0	183.3	
14 Chloroethane	64	2.150	2.157	-0.007	100	1634653	200.0	187.7	
15 Dichlorofluoromethane	67	2.311	2.315	-0.004	97	3958551	200.0	193.1	
16 Trichlorofluoromethane	101	2.341	2.345	-0.004	98	3231552	200.0	218.3	
18 Ethyl ether	59	2.547	2.547	0.000	96	1897322	200.0	204.7	
20 Acrolein	56	2.648	2.652	-0.004	100	3333260	1975.0	2144.3	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.723	2.723	0.000	97	1244660	200.0	203.1	
22 1,1-Dichloroethene	96	2.723	2.727	-0.004	94	1690695	200.0	198.3	
23 Acetone	43	2.746	2.746	0.000	99	2929595	800.0	796.6	
25 Iodomethane	142	2.843	2.843	0.000	99	2023694	200.0	169.9	
26 Carbon disulfide	76	2.900	2.903	-0.003	100	6122985	200.0	181.4	
28 Methyl acetate	43	2.963	2.967	-0.004	99	3888163	400.0	430.1	
29 3-Chloro-1-propene	41	2.982	2.986	-0.004	91	3795127	200.0	179.8	
30 Methylene Chloride	84	3.076	3.076	0.000	99	2158809	200.0	187.0	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	97	2199957	2000.0	2221.9	
32 Acrylonitrile	53	3.230	3.233	-0.003	98	9700712	2000.0	2186.4	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	6213270	200.0	221.6	
34 trans-1,2-Dichloroethene	96	3.267	3.271	-0.004	94	1973593	200.0	194.3	
35 Hexane	57	3.454	3.454	0.000	97	3240132	200.0	217.1	
37 Vinyl acetate	43	3.556	3.559	-0.003	97	10910588	400.0	447.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	4231248	200.0	198.7	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	4939144	800.0	890.0	
45 cis-1,2-Dichloroethene	96	3.972	3.975	-0.003	86	2237903	200.0	199.9	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	90	3214207	200.0	213.7	
48 sec-Butyl Alcohol	45	4.065	4.065	0.000	100	5125962	4800.0	5062.9	
50 Chlorobromomethane	128	4.144	4.148	-0.004	92	907859	200.0	192.9	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	92	1663525	400.0	459.2	
52 Chloroform	83	4.204	4.208	-0.004	95	3740472	200.0	198.1	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	97	2925532	200.0	197.8	
54 Cyclohexane	56	4.399	4.403	-0.004	95	3961872	200.0	214.9	
55 1,1-Dichloropropene	75	4.452	4.455	-0.003	96	3102133	200.0	207.6	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	98	2643277	200.0	208.9	
57 Isobutyl alcohol	41	4.478	4.478	0.000	95	2311616	5000.0	5403.5	
58 Benzene	78	4.605	4.601	0.004	97	8838474	200.0	199.8	
59 1,2-Dichloroethane	62	4.632	4.635	-0.003	97	3096182	200.0	204.4	
63 n-Heptane	43	4.789	4.793	-0.004	97	3113623	200.0	236.5	
65 Trichloroethene	95	5.085	5.089	-0.004	97	2049227	200.0	184.9	
66 2-Pentanone	43	5.190	5.194	-0.004	98	6174920	640.0	688.5	
67 Methylcyclohexane	55	5.276	5.280	-0.004	95	2985935	200.0	224.8	
68 1,2-Dichloropropane	63	5.288	5.291	-0.003	96	2603464	200.0	211.1	
70 1,4-Dioxane	88	5.340	5.344	-0.004	99	557091	4000.0	3597.2	
71 Dibromomethane	93	5.359	5.362	-0.003	91	1361023	200.0	205.2	
72 Dichlorobromomethane	83	5.482	5.486	-0.004	98	3016993	200.0	208.0	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	1571450	200.0	211.4	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	93	3977432	200.0	210.5	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	98	10684572	800.0	853.3	
77 Toluene	91	6.112	6.112	0.000	97	9267499	200.0	202.3	
78 trans-1,3-Dichloropropene	75	6.292	6.296	-0.004	92	3708829	200.0	229.0	
79 Ethyl methacrylate	69	6.318	6.322	-0.004	93	3085420	200.0	209.4	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	1883866	200.0	208.0	
81 Tetrachloroethene	164	6.555	6.555	0.000	93	1485811	200.0	196.8	
82 1,3-Dichloropropane	76	6.607	6.611	-0.004	96	3718727	200.0	207.7	
83 2-Hexanone	43	6.633	6.633	0.000	99	7443497	800.0	853.5	
84 Chlorodibromomethane	129	6.798	6.802	-0.004	91	2192574	200.0	205.4	
86 Ethylene Dibromide	107	6.914	6.918	-0.004	99	2011062	200.0	206.9	
87 1-Chlorohexane	91	7.312	7.312	0.000	93	2356797	160.0	163.2	
88 Chlorobenzene	112	7.346	7.349	-0.003	92	5891452	200.0	196.1	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.420	0.000	95	2109722	200.0	207.9	
90 Ethylbenzene	106	7.424	7.424	0.000	99	3307690	200.0	208.5	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	3929461	200.0	204.1	
92 o-Xylene	106	7.904	7.904	0.000	97	4031894	200.0	216.5	
93 Styrene	104	7.919	7.919	0.000	95	6883608	200.0	222.9	
94 Bromoform	173	8.099	8.099	0.000	94	1465246	200.0	212.1	
95 Isopropylbenzene	105	8.241	8.241	0.000	96	9839927	200.0	203.8	
97 Cyclohexanone	55	8.339	8.339	0.000	96	3539601	6000.0	5539.3	a
98 1,1,2,2-Tetrachloroethane	83	8.534	8.534	0.000	93	2732989	200.0	192.8	
99 Bromobenzene	156	8.556	8.560	-0.004	97	2367884	200.0	195.9	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.575	-0.004	76	927271	200.0	216.2	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	85	743218	200.0	188.4	
102 N-Propylbenzene	120	8.643	8.643	0.001	99	2628869	200.0	197.2	e
103 2-Chlorotoluene	126	8.736	8.732	0.004	95	2327205	200.0	194.1	a
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	94	8214196	200.0	204.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.852	8.852	0.000	98	2459537	200.0	197.8	
106 tert-Butylbenzene	119	9.122	9.122	0.000	95	6670099	200.0	203.7	
107 1,2,4-Trimethylbenzene	105	9.182	9.182	0.000	98	8658379	200.0	194.7	
108 sec-Butylbenzene	134	9.344	9.340	0.004	95	1925732	200.0	208.8	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	97	4511704	200.0	197.1	
111 4-Isopropyltoluene	119	9.490	9.493	-0.003	97	8710257	200.0	197.4	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	4645291	200.0	192.2	
114 n-Butylbenzene	91	9.895	9.898	-0.003	99	8285895	200.0	201.4	
115 1,2-Dichlorobenzene	146	9.917	9.921	-0.004	96	4319014	200.0	201.1	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	81	405666	200.0	181.9	
118 1,2,4-Trichlorobenzene	180	11.522	11.525	-0.003	94	2011893	200.0	188.5	
119 Hexachlorobutadiene	225	11.664	11.668	-0.004	97	886171	200.0	176.1	
120 Naphthalene	128	11.788	11.791	-0.003	98	4478103	200.0	151.1	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	1012647	200.0	114.1	
S 143 1,3-Dichloropropene, Total	1				0		400.0	439.5	
S 142 Trihalomethanes, Total	1				0		800.0	823.6	
S 141 Xylenes, Total	106				0		400.0	420.6	
S 140 1,2-Dichloroethene, Total	1				0		400.0	394.2	
S 139 Total BTEX	1				0			1031.2	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

a - User Assigned ID

Reagents:

MV-MegaMainA_00092

Amount Added: 100.00

Units: uL

MV-Gas A_00160

Amount Added: 40.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6570.D

Injection Date: 30-Jul-2023 16:32:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

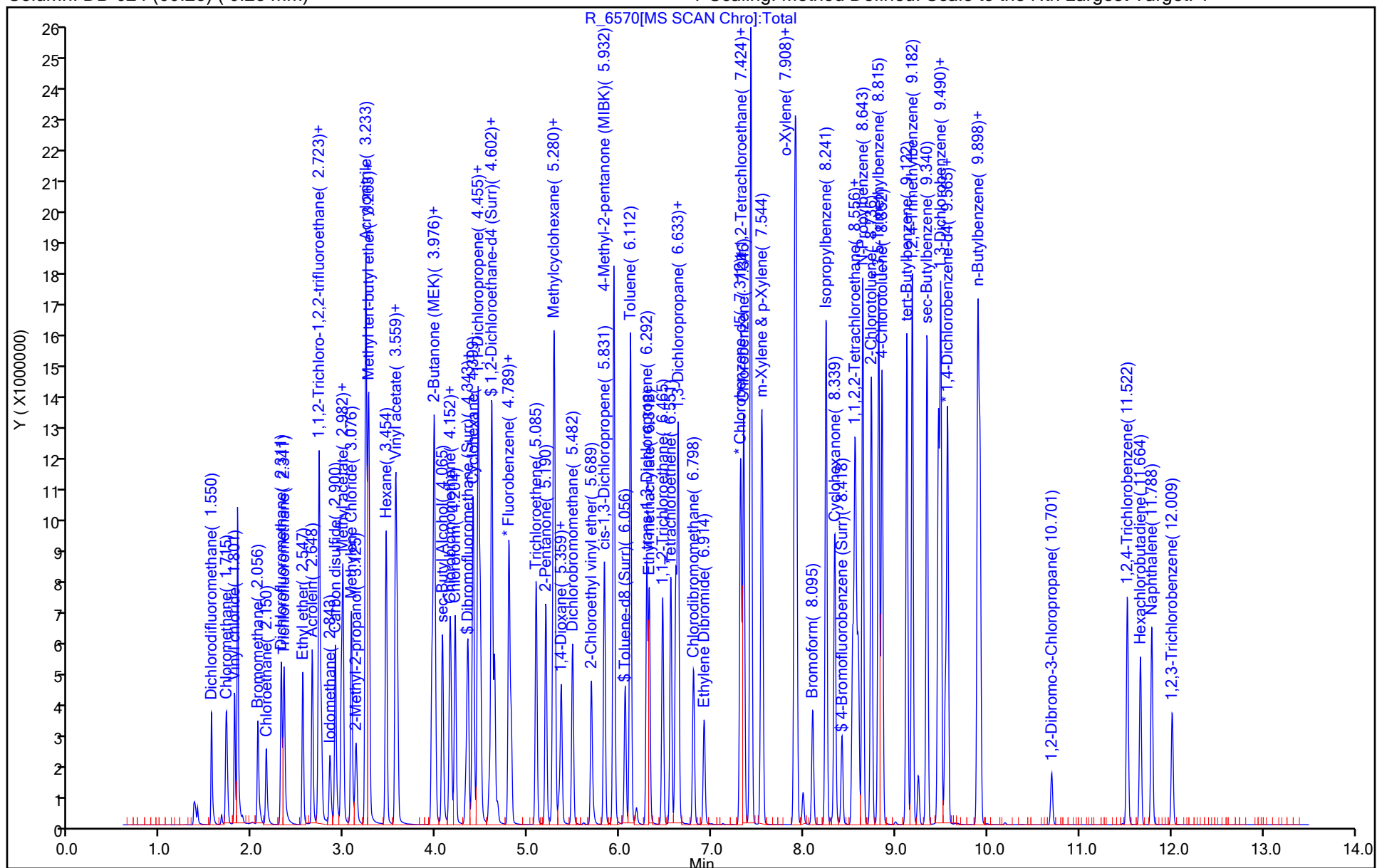
ALS Bottle#: 3

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6570.D

Injection Date: 30-Jul-2023 16:32:30

Instrument ID: VMS_R1

Lims ID: ic

Client ID:

Operator ID: bustillose

ALS Bottle#:

3

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

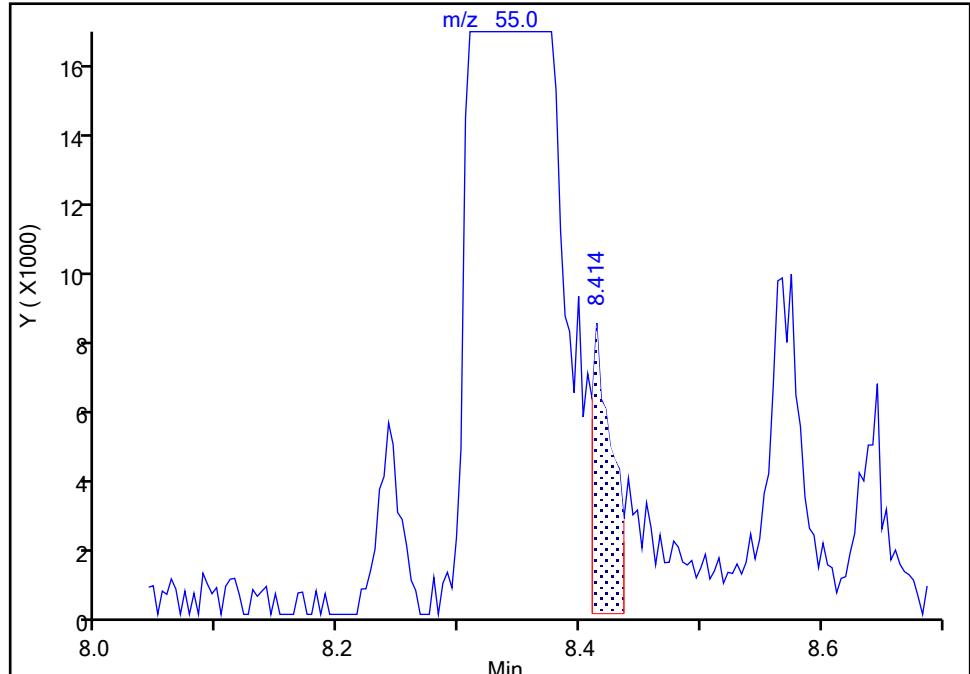
MS SCAN

97 Cyclohexanone, CAS: 108-94-1

Signal: 1

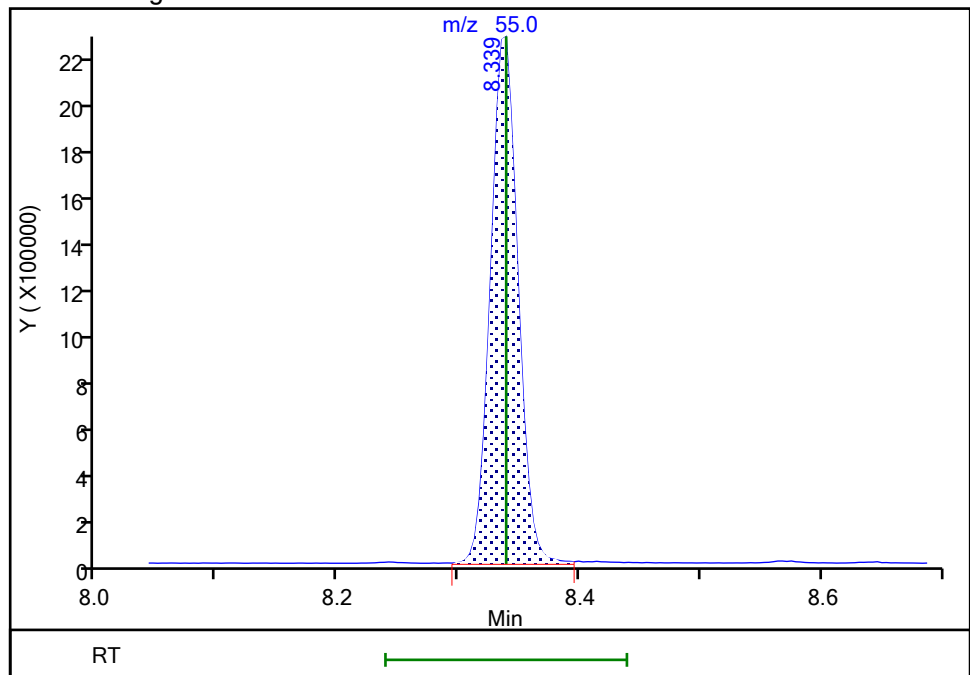
RT: 8.41
Area: 9478
Amount: 27.083125
Amount Units: ug/l

Processing Integration Results



RT: 8.34
Area: 3539601
Amount: 5539.2557
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:45:13 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver

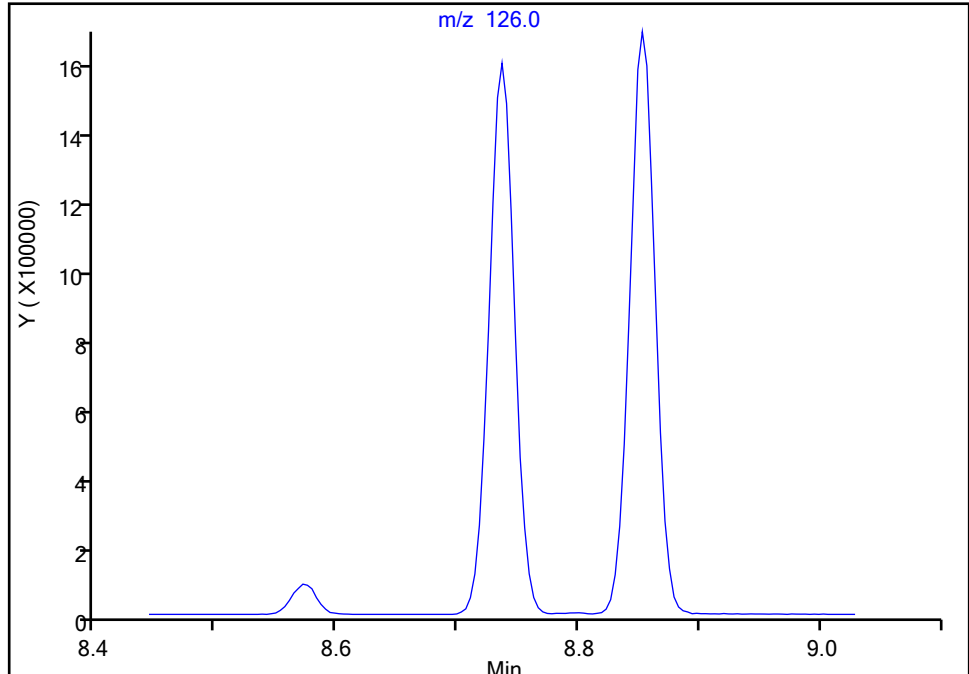
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6570.D
Injection Date: 30-Jul-2023 16:32:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

103 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

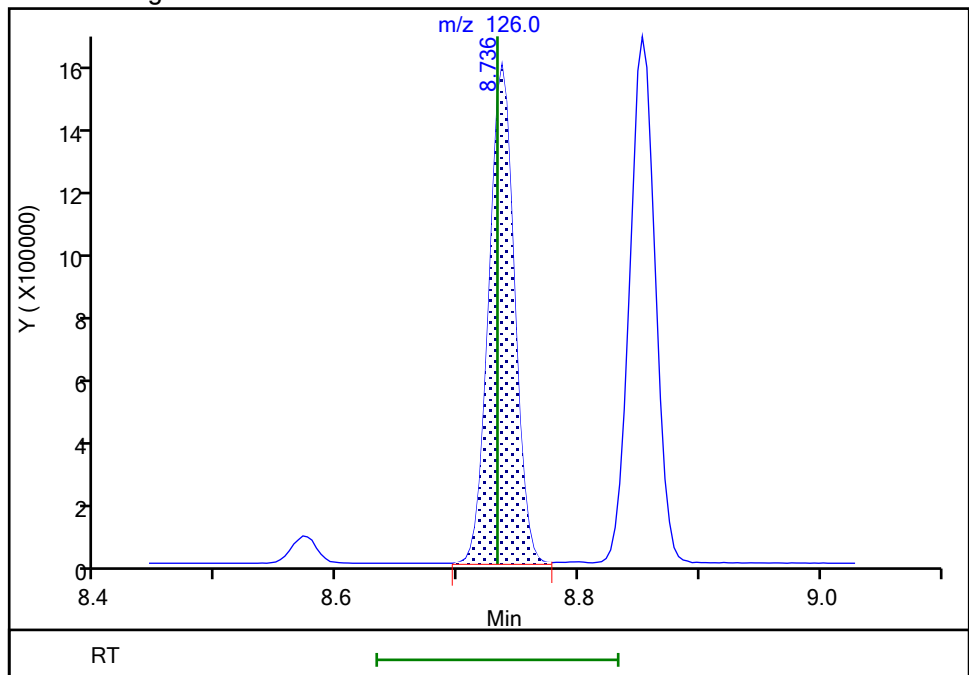
Not Detected
Expected RT: 8.73

Processing Integration Results



RT: 8.74
Area: 2327205
Amount: 194.0647
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:45:23 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6571.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 30-Jul-2023 16:53:30 ALS Bottle#: 4 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 100
 Misc. Info.: 280-0124001-014
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:50:55 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:46:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2263977	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	570801	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.538	9.542	-0.004	96	909439	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	585411	50.0	49.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.579	-0.004	0	704789	50.0	49.6	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2418443	50.0	49.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	84	877534	50.0	49.8	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	1031654	100.0	94.9	
10 Chloromethane	50	1.715	1.715	0.000	99	1664980	100.0	97.0	
11 Vinyl chloride	62	1.805	1.805	0.000	98	1329538	100.0	96.4	
13 Bromomethane	94	2.064	2.071	-0.007	91	824738	100.0	91.1	
14 Chloroethane	64	2.154	2.157	-0.003	100	803546	100.0	90.1	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	97	1915693	100.0	91.2	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	1457036	100.0	96.1	
18 Ethyl ether	59	2.547	2.547	0.000	96	962214	100.0	101.3	
20 Acrolein	56	2.648	2.652	-0.004	99	1702729	987.5	1069.2	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.723	2.723	0.000	97	619288	100.0	98.7	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	95	841357	100.0	96.3	
23 Acetone	43	2.746	2.746	0.000	99	1546410	400.0	405.1	
25 Iodomethane	142	2.843	2.843	0.000	99	1134380	100.0	93.0	
26 Carbon disulfide	76	2.900	2.903	-0.003	100	3108561	100.0	89.9	
28 Methyl acetate	43	2.967	2.967	0.000	99	2014503	200.0	217.5	
29 3-Chloro-1-propene	41	2.982	2.986	-0.004	91	1943342	100.0	89.8	
30 Methylene Chloride	84	3.076	3.076	0.000	99	1125025	100.0	95.1	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	97	1169599	1000.0	1153.0	
32 Acrylonitrile	53	3.233	3.233	0.000	98	4909182	1000.0	1080.0	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	3085246	100.0	107.4	
34 trans-1,2-Dichloroethene	96	3.267	3.271	-0.004	95	974383	100.0	93.6	
35 Hexane	57	3.454	3.454	0.000	96	1538153	100.0	103.7	
37 Vinyl acetate	43	3.556	3.559	-0.003	97	5144856	200.0	206.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	2088576	100.0	95.7	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	2510535	400.0	441.6	
45 cis-1,2-Dichloroethene	96	3.972	3.975	-0.003	85	1120130	100.0	97.7	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	90	1569220	100.0	101.8	
48 sec-Butyl Alcohol	45	4.065	4.065	0.000	100	2663600	2400.0	2574.1	
50 Chlorobromomethane	128	4.148	4.148	0.000	93	472520	100.0	98.0	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	92	828860	200.0	223.3	
52 Chloroform	83	4.204	4.208	-0.004	95	1873112	100.0	96.8	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	98	1468330	100.0	96.9	
54 Cyclohexane	56	4.399	4.403	-0.004	95	1922460	100.0	101.8	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	98	1505976	100.0	98.4	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	98	1267862	100.0	97.8	
57 Isobutyl alcohol	41	4.478	4.478	0.000	95	1142966	2500.0	2613.1	
58 Benzene	78	4.605	4.601	0.004	97	4440913	100.0	98.0	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	97	1548263	100.0	99.7	
63 n-Heptane	43	4.793	4.793	0.000	97	1433082	100.0	106.2	
65 Trichloroethene	95	5.085	5.089	-0.004	97	1042765	100.0	94.7	
66 2-Pentanone	43	5.190	5.194	-0.004	98	3128162	320.0	341.3	
67 Methylcyclohexane	55	5.276	5.280	-0.004	94	1409440	100.0	103.6	
68 1,2-Dichloropropane	63	5.288	5.291	-0.003	95	1290602	100.0	102.1	
70 1,4-Dioxane	88	5.336	5.344	-0.008	97	320839	2000.0	2026.9	
71 Dibromomethane	93	5.359	5.362	-0.003	91	680405	100.0	100.1	
72 Dichlorobromomethane	83	5.482	5.486	-0.004	98	1530828	100.0	103.0	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	796708	100.0	104.9	
75 cis-1,3-Dichloropropene	75	5.827	5.831	-0.004	93	1968123	100.0	104.8	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	99	5383926	400.0	420.5	
77 Toluene	91	6.112	6.112	0.000	97	4571984	100.0	97.4	
78 trans-1,3-Dichloropropene	75	6.292	6.296	-0.004	92	1800512	100.0	108.5	
79 Ethyl methacrylate	69	6.318	6.322	-0.004	92	1506316	100.0	103.1	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	963287	100.0	103.8	
81 Tetrachloroethene	164	6.555	6.555	0.000	95	728834	100.0	97.1	
82 1,3-Dichloropropane	76	6.607	6.611	-0.004	94	1831349	100.0	102.9	
83 2-Hexanone	43	6.633	6.633	0.000	98	3685378	400.0	426.1	
84 Chlorodibromomethane	129	6.802	6.802	0.000	91	1082615	100.0	102.0	
86 Ethylene Dibromide	107	6.914	6.918	-0.004	98	1011739	100.0	104.7	
87 1-Chlorohexane	91	7.312	7.312	0.000	95	1130721	80.0	78.8	
88 Chlorobenzene	112	7.346	7.349	-0.003	93	2904541	100.0	97.3	
89 1,1,1,2-Tetrachloroethane	131	7.420	7.420	0.000	95	1023755	100.0	101.5	
90 Ethylbenzene	106	7.424	7.424	0.000	99	1582081	100.0	100.3	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	1912768	100.0	100.0	
92 o-Xylene	106	7.900	7.904	-0.004	97	1932392	100.0	104.4	
93 Styrene	104	7.919	7.919	0.000	95	3296701	100.0	107.4	
94 Bromoform	173	8.095	8.099	-0.004	94	716609	100.0	104.4	
95 Isopropylbenzene	105	8.241	8.241	0.000	96	4731687	100.0	102.5	
97 Cyclohexanone	55	8.339	8.339	0.000	96	2036537	3000.0	3211.9	a
98 1,1,2,2-Tetrachloroethane	83	8.530	8.534	-0.004	94	1384139	100.0	102.2	
99 Bromobenzene	156	8.556	8.560	-0.004	97	1163113	100.0	100.7	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.575	-0.004	76	465433	100.0	113.6	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	86	373197	100.0	99.2	
102 N-Propylbenzene	120	8.643	8.643	0.001	100	1289540	100.0	101.2	
103 2-Chlorotoluene	126	8.736	8.732	0.004	95	1136637	100.0	99.2	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	94	3925819	100.0	102.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.852	8.852	0.000	98	1203492	100.0	101.3	
106 tert-Butylbenzene	119	9.122	9.122	0.000	94	3187698	100.0	101.8	
107 1,2,4-Trimethylbenzene	105	9.182	9.182	0.000	98	4135989	100.0	97.5	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	911962	100.0	103.4	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	97	2161403	100.0	98.8	
111 4-Isopropyltoluene	119	9.490	9.493	-0.003	97	4074345	100.0	96.8	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	93	2223906	100.0	96.3	
114 n-Butylbenzene	91	9.895	9.898	-0.003	98	3811906	100.0	97.2	
115 1,2-Dichlorobenzene	146	9.917	9.921	-0.004	96	2078418	100.0	101.3	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	81	237642	100.0	111.5	
118 1,2,4-Trichlorobenzene	180	11.525	11.525	0.000	94	1080141	100.0	105.9	
119 Hexachlorobutadiene	225	11.664	11.668	-0.004	97	455388	100.0	94.7	
120 Naphthalene	128	11.788	11.791	-0.003	98	2947363	100.0	104.1	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	835581	100.0	101.6	
S 143 1,3-Dichloropropene, Total	1				0		200.0	213.3	
S 142 Trihalomethanes, Total	1				0		400.0	406.3	
S 141 Xylenes, Total	106				0		200.0	204.4	
S 140 1,2-Dichloroethene, Total	1				0		200.0	191.3	
S 139 Total BTEX	1				0			500.1	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MV-MegaMainA_00092

Amount Added: 50.00

Units: uL

MV-Gas A_00160

Amount Added: 20.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6571.D

Injection Date: 30-Jul-2023 16:53:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

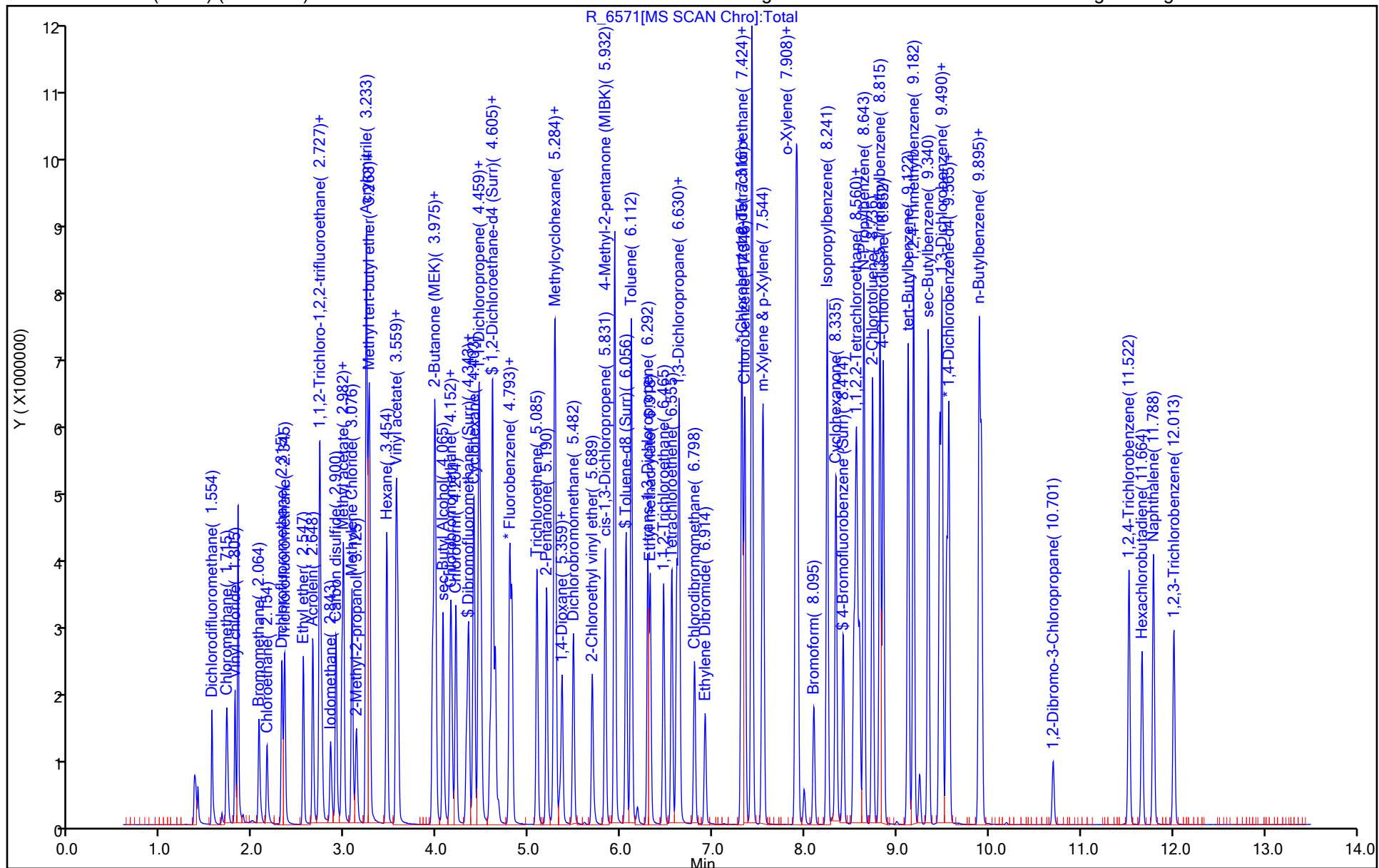
ALS Bottle#: 4

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

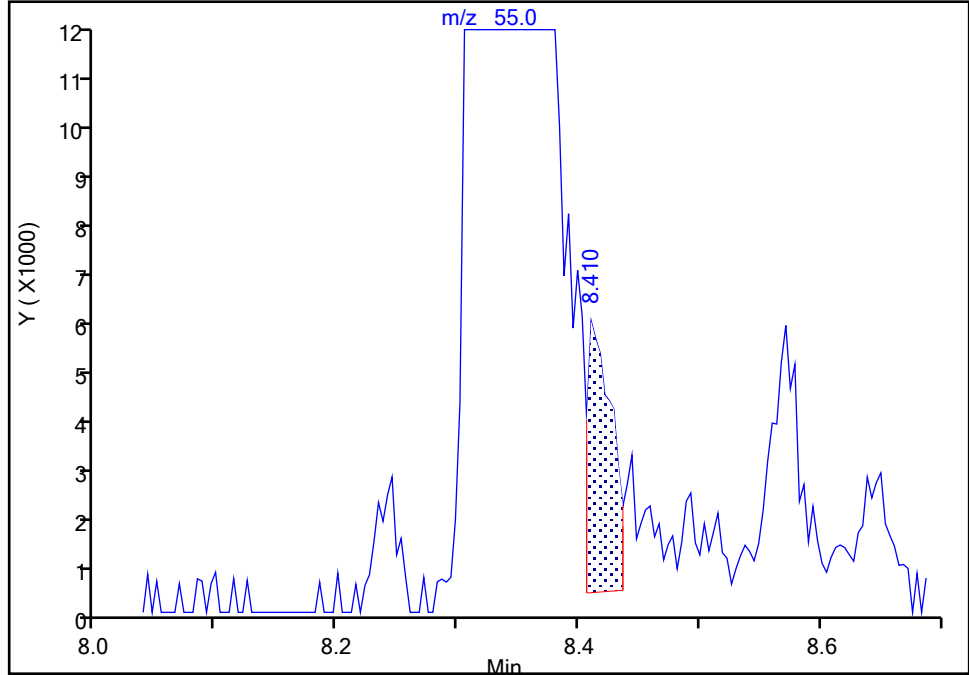
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6571.D
Injection Date: 30-Jul-2023 16:53:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 4 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

97 Cyclohexanone, CAS: 108-94-1

Signal: 1

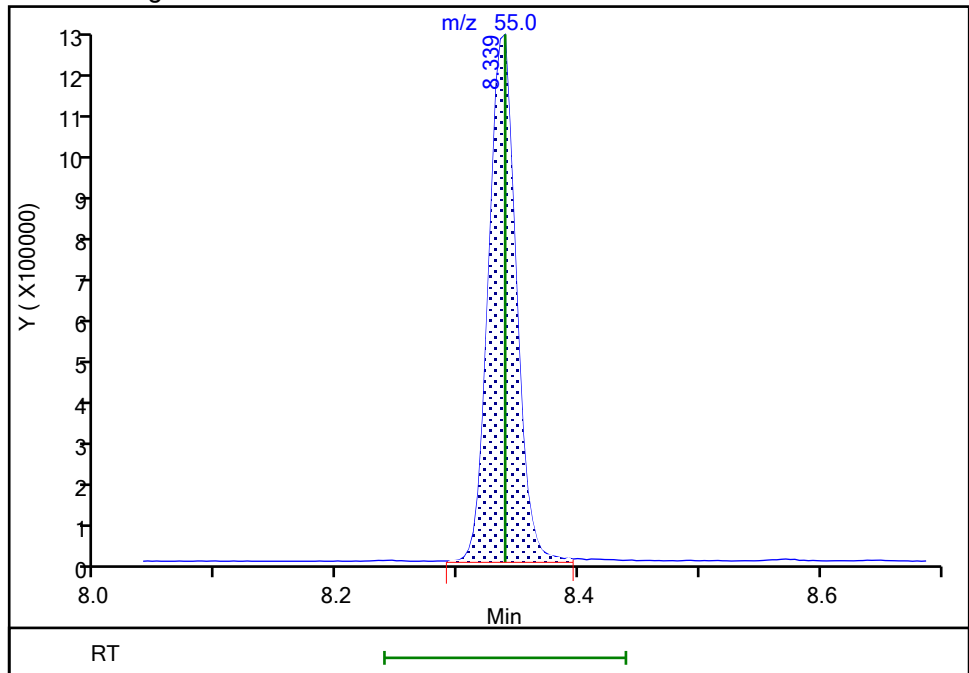
RT: 8.41
Area: 7310
Amount: 17.710384
Amount Units: ug/l

Processing Integration Results



RT: 8.34
Area: 2036537
Amount: 3211.8960
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:46:29 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Wrong peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6572.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 30-Jul-2023 17:14:30 ALS Bottle#: 5 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 75
 Misc. Info.: 280-0124001-015
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:50:57 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:47:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2262624	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	573514	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	902314	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.320	0.001	92	591676	50.0	49.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.579	-0.004	0	707774	50.0	49.8	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	95	2432638	50.0	49.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	85	873420	50.0	50.0	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	766217	75.0	70.5	
10 Chloromethane	50	1.711	1.715	-0.004	99	1194541	75.0	69.5	
11 Vinyl chloride	62	1.805	1.805	0.000	98	980486	75.0	71.1	
13 Bromomethane	94	2.068	2.071	-0.003	91	597574	75.0	66.0	
14 Chloroethane	64	2.154	2.157	-0.003	100	588652	75.0	66.0	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	97	1400941	75.0	66.7	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	1031109	75.0	68.0	
18 Ethyl ether	59	2.547	2.547	0.000	95	716676	75.0	75.5	
20 Acrolein	56	2.649	2.652	-0.003	99	1233556	740.6	775.1	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.724	2.723	0.001	96	498080	75.0	79.4	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	95	650818	75.0	74.5	
23 Acetone	43	2.746	2.746	0.000	99	1131804	300.0	293.8	
25 Iodomethane	142	2.844	2.843	0.001	99	892854	75.0	73.2	
26 Carbon disulfide	76	2.900	2.903	-0.003	100	2424170	75.0	70.1	
28 Methyl acetate	43	2.967	2.967	0.000	99	1456924	150.0	157.4	
29 3-Chloro-1-propene	41	2.982	2.986	-0.004	91	1485205	75.0	68.7	
30 Methylene Chloride	84	3.076	3.076	0.000	99	839681	75.0	71.1	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	97	835074	750.0	823.7	
32 Acrylonitrile	53	3.230	3.233	-0.003	99	3572836	750.0	786.5	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	2268293	75.0	79.0	
34 trans-1,2-Dichloroethene	96	3.267	3.271	-0.004	95	752281	75.0	72.3	
35 Hexane	57	3.455	3.454	0.001	96	1194899	75.0	80.2	
37 Vinyl acetate	43	3.556	3.559	-0.003	97	3722513	150.0	149.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.575	3.574	0.001	96	1585426	75.0	72.7	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1809265	300.0	318.4	
45 cis-1,2-Dichloroethene	96	3.972	3.975	-0.003	85	842235	75.0	73.5	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	90	1186989	75.0	77.1	
48 sec-Butyl Alcohol	45	4.066	4.065	0.001	100	1911783	1800.0	1852.2	
50 Chlorobromomethane	128	4.148	4.148	0.000	93	361127	75.0	74.9	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	91	611656	150.0	164.9	
52 Chloroform	83	4.204	4.208	-0.004	95	1412512	75.0	73.1	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	97	1134362	75.0	74.9	
54 Cyclohexane	56	4.399	4.403	-0.004	95	1528914	75.0	81.0	
55 1,1-Dichloropropene	75	4.452	4.455	-0.003	97	1184180	75.0	77.4	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	97	999173	75.0	77.1	
57 Isobutyl alcohol	41	4.478	4.478	0.000	94	857785	1875.0	1964.8	
58 Benzene	78	4.605	4.601	0.004	97	3352499	75.0	74.0	
59 1,2-Dichloroethane	62	4.632	4.635	-0.003	97	1144315	75.0	73.8	
63 n-Heptane	43	4.789	4.793	-0.004	97	1083746	75.0	80.4	
65 Trichloroethene	95	5.085	5.089	-0.004	97	803857	75.0	72.6	
66 2-Pentanone	43	5.194	5.194	0.000	98	2257078	240.0	246.9	
67 Methylcyclohexane	55	5.276	5.280	-0.004	94	1099640	75.0	80.8	
68 1,2-Dichloropropane	63	5.288	5.291	-0.003	96	958355	75.0	75.9	
70 1,4-Dioxane	88	5.336	5.344	-0.008	97	226630	1500.0	1435.8	
71 Dibromomethane	93	5.359	5.362	-0.003	91	498786	75.0	73.5	
72 Dichlorobromomethane	83	5.483	5.486	-0.003	98	1133538	75.0	76.3	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	90	586331	75.0	77.4	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	93	1450482	75.0	76.9	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	98	3862274	300.0	302.3	
77 Toluene	91	6.112	6.112	0.000	97	3461200	75.0	73.8	
78 trans-1,3-Dichloropropene	75	6.292	6.296	-0.004	93	1319067	75.0	79.6	
79 Ethyl methacrylate	69	6.319	6.322	-0.003	91	1109241	75.0	75.7	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	711925	75.0	76.8	
81 Tetrachloroethene	164	6.555	6.555	0.000	93	561783	75.0	74.5	
82 1,3-Dichloropropane	76	6.607	6.611	-0.004	94	1365020	75.0	76.4	
83 2-Hexanone	43	6.633	6.633	0.000	97	2634190	300.0	303.7	
84 Chlorodibromomethane	129	6.798	6.802	-0.004	91	800156	75.0	75.1	
86 Ethylene Dibromide	107	6.915	6.918	-0.003	99	742397	75.0	76.5	
87 1-Chlorohexane	91	7.312	7.312	0.000	93	875683	60.0	60.7	
88 Chlorobenzene	112	7.346	7.349	-0.003	93	2168496	75.0	72.3	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.420	0.001	95	757229	75.0	74.7	
90 Ethylbenzene	106	7.424	7.424	0.000	99	1186090	75.0	74.9	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	1450363	75.0	75.5	
92 o-Xylene	106	7.900	7.904	-0.004	97	1451896	75.0	78.1	
93 Styrene	104	7.919	7.919	0.000	95	2436423	75.0	79.0	
94 Bromoform	173	8.099	8.099	0.000	94	534780	75.0	77.5	
95 Isopropylbenzene	105	8.242	8.241	0.001	96	3579071	75.0	78.2	
97 Cyclohexanone	55	8.335	8.339	-0.004	96	1435329	2250.0	2256.5	a
98 1,1,2,2-Tetrachloroethane	83	8.530	8.534	-0.004	93	1029723	75.0	76.6	
99 Bromobenzene	156	8.556	8.560	-0.004	97	862413	75.0	75.2	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.575	-0.004	76	330245	75.0	81.2	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	86	272092	75.0	73.0	
102 N-Propylbenzene	120	8.643	8.643	0.001	99	982181	75.0	77.7	
103 2-Chlorotoluene	126	8.736	8.732	0.004	96	856999	75.0	75.4	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	94	2960232	75.0	77.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.853	8.852	0.001	98	894813	75.0	75.9	
106 tert-Butylbenzene	119	9.123	9.122	0.001	95	2430544	75.0	78.3	
107 1,2,4-Trimethylbenzene	105	9.183	9.182	0.000	98	3076103	75.0	73.1	
108 sec-Butylbenzene	134	9.344	9.340	0.004	95	688939	75.0	78.8	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	97	1595004	75.0	73.5	
111 4-Isopropyltoluene	119	9.490	9.493	-0.003	98	3068901	75.0	73.6	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	93	1664489	75.0	72.6	
114 n-Butylbenzene	91	9.895	9.898	-0.003	98	2873279	75.0	73.9	
115 1,2-Dichlorobenzene	146	9.917	9.921	-0.004	96	1530264	75.0	75.1	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	79	163021	75.0	77.1	
118 1,2,4-Trichlorobenzene	180	11.525	11.525	0.000	94	767923	75.0	75.9	
119 Hexachlorobutadiene	225	11.664	11.668	-0.004	97	335148	75.0	70.3	
120 Naphthalene	128	11.788	11.791	-0.003	98	1985671	75.0	70.8	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	538767	75.0	71.1	
S 143 1,3-Dichloropropene, Total	1				0		150.0	156.4	
S 142 Trihalomethanes, Total	1				0		300.0	302.0	
S 141 Xylenes, Total	106				0		150.0	153.5	
S 140 1,2-Dichloroethene, Total	1				0		150.0	145.8	
S 139 Total BTEX	1				0			376.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MV-MegaMainA_00092

Amount Added: 37.50

Units: uL

MV-Gas A_00160

Amount Added: 15.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6572.D

Injection Date: 30-Jul-2023 17:14:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

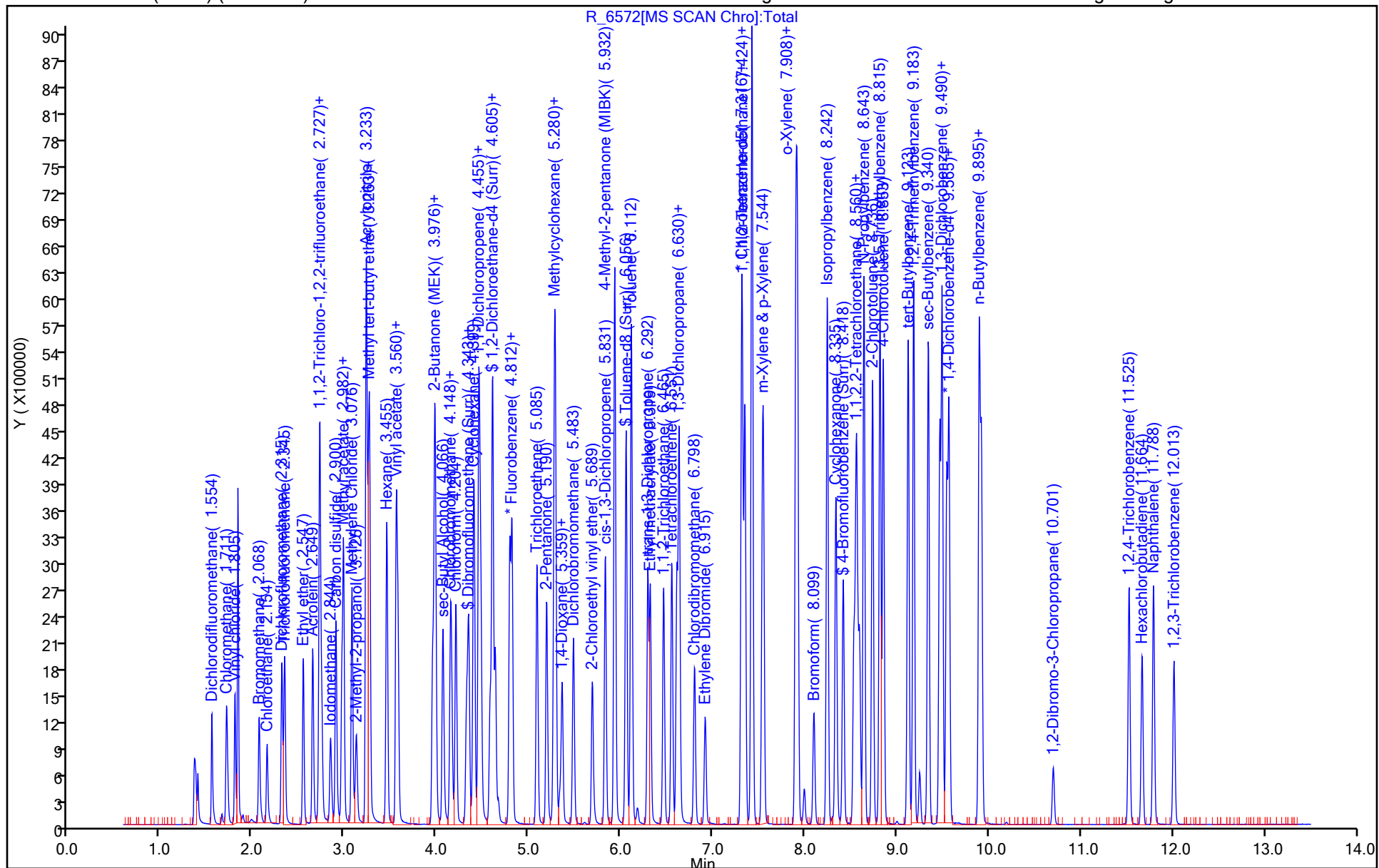
ALS Bottle#: 5

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6572.D

Injection Date: 30-Jul-2023 17:14:30

Instrument ID: VMS_R1

Lims ID: ic

Client ID:

Operator ID: bustillose

ALS Bottle#:

5

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

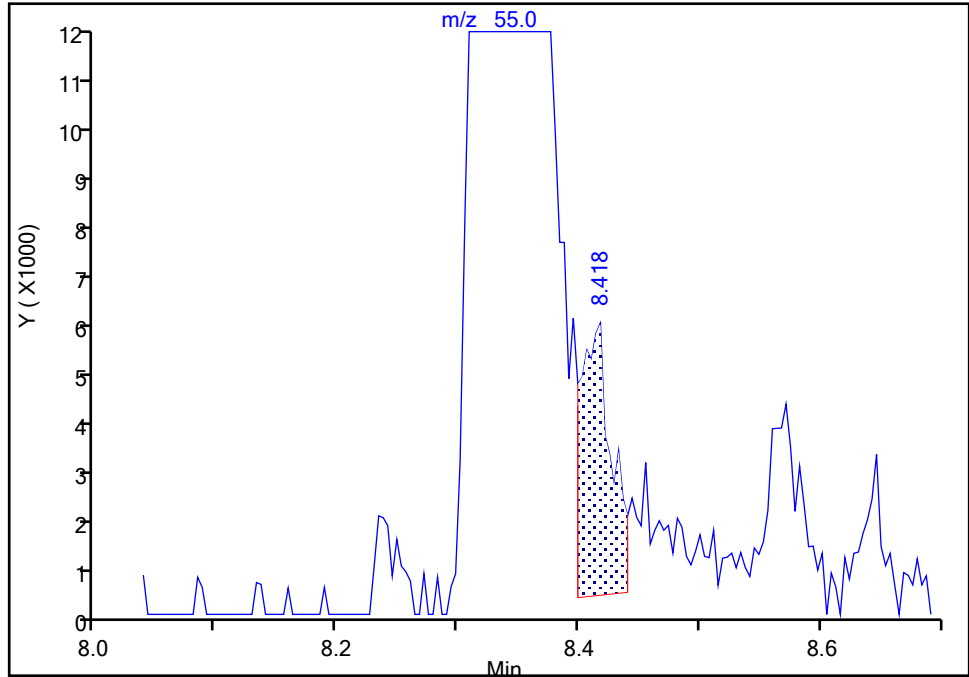
MS SCAN

97 Cyclohexanone, CAS: 108-94-1

Signal: 1

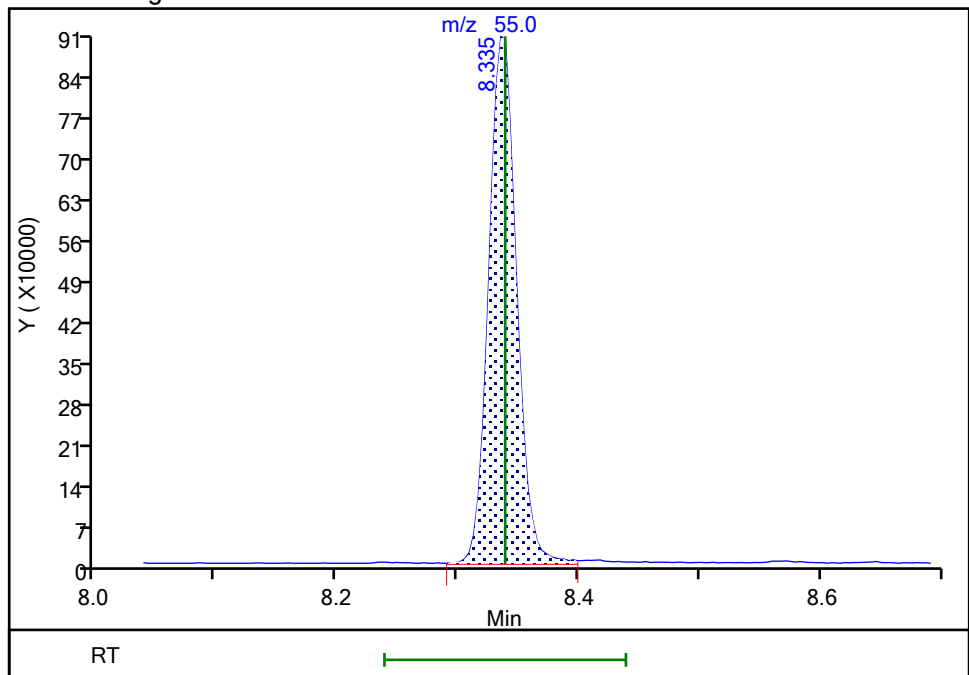
RT: 8.42
Area: 9308
Amount: 18.987092
Amount Units: ug/l

Processing Integration Results



RT: 8.34
Area: 1435329
Amount: 2256.4894
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:47:36 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Wrong peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6573.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 30-Jul-2023 17:35:30 ALS Bottle#: 6 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icis
 Misc. Info.: 280-0124001-016
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:50:59 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:48:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	99	2317582	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.319	0.000	88	571323	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	917352	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	603951	50.0	49.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	719542	50.0	49.4	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2484696	50.0	50.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	85	881473	50.0	49.6	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	548334	50.0	49.3	
10 Chloromethane	50	1.715	1.715	0.000	99	859120	50.0	48.8	
11 Vinyl chloride	62	1.805	1.805	0.000	98	707184	50.0	50.0	
13 Bromomethane	94	2.068	2.068	0.000	91	415621	50.0	44.8	
14 Chloroethane	64	2.154	2.154	0.000	99	423539	50.0	46.4	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	97	1007920	50.0	46.9	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	715490	50.0	46.1	
18 Ethyl ether	59	2.547	2.547	0.000	95	488077	50.0	50.2	
20 Acrolein	56	2.649	2.649	0.000	99	855254	493.8	524.6	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.727	2.727	0.000	95	323952	50.0	50.4	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	94	430475	50.0	48.1	
23 Acetone	43	2.746	2.746	0.000	99	802061	200.0	199.9	
25 Iodomethane	142	2.843	2.843	0.000	99	619730	50.0	49.6	
26 Carbon disulfide	76	2.903	2.903	0.000	100	1591721	50.0	45.0	
28 Methyl acetate	43	2.967	2.967	0.000	99	1016078	100.0	107.2	
29 3-Chloro-1-propene	41	2.986	2.986	0.000	91	1002023	50.0	45.3	
30 Methylene Chloride	84	3.076	3.076	0.000	99	564598	50.0	46.6	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	97	556892	500.0	536.3	
32 Acrylonitrile	53	3.230	3.230	0.000	99	2453164	500.0	527.2	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	1515605	50.0	51.5	
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	94	498341	50.0	46.8	
35 Hexane	57	3.455	3.455	0.000	95	760611	50.0	51.2	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2546613	100.0	100.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	1070040	50.0	47.9	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1274194	200.0	218.9	
45 cis-1,2-Dichloroethene	96	3.976	3.976	0.000	85	571830	50.0	48.7	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	91	781566	50.0	49.5	
48 sec-Butyl Alcohol	45	4.066	4.066	0.000	99	1279159	1200.0	1214.3	
50 Chlorobromomethane	128	4.144	4.144	0.000	93	250866	50.0	50.8	
51 Tetrahydrofuran	42	4.159	4.159	0.000	92	421494	100.0	110.9	
52 Chloroform	83	4.208	4.208	0.000	95	966168	50.0	48.8	
53 1,1,1-Trichloroethane	97	4.347	4.347	0.000	97	746314	50.0	48.1	
54 Cyclohexane	56	4.399	4.399	0.000	94	959529	50.0	49.6	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	97	767187	50.0	48.9	
56 Carbon tetrachloride	117	4.459	4.459	0.000	97	640170	50.0	48.2	
57 Isobutyl alcohol	41	4.478	4.478	0.000	96	575910	1250.0	1291.4	
58 Benzene	78	4.605	4.605	0.000	97	2249126	50.0	48.5	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	785810	50.0	49.5	
63 n-Heptane	43	4.793	4.793	0.000	96	683710	50.0	49.5	
65 Trichloroethene	95	5.089	5.089	0.000	97	527324	50.0	47.8	
66 2-Pentanone	43	5.190	5.190	0.000	98	1530656	160.0	164.0	
67 Methylcyclohexane	55	5.276	5.276	0.000	94	694844	50.0	49.9	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	96	639681	50.0	49.5	
70 1,4-Dioxane	88	5.336	5.336	0.000	97	158279	1000.0	982.5	
71 Dibromomethane	93	5.363	5.363	0.000	92	344598	50.0	49.5	
72 Dichlorobromomethane	83	5.486	5.486	0.000	98	763899	50.0	50.2	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	93	392791	50.0	50.8	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	93	998764	50.0	53.1	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.932	0.000	98	2641791	200.0	202.4	
77 Toluene	91	6.112	6.112	0.000	98	2313578	50.0	48.2	
78 trans-1,3-Dichloropropene	75	6.292	6.292	0.000	92	896343	50.0	52.8	
79 Ethyl methacrylate	69	6.318	6.318	0.000	92	766834	50.0	52.7	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	485834	50.0	51.1	
81 Tetrachloroethene	164	6.551	6.551	0.000	93	372700	50.0	49.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	94	930686	50.0	52.3	
83 2-Hexanone	43	6.633	6.633	0.000	98	1811684	200.0	210.3	
84 Chlorodibromomethane	129	6.802	6.802	0.000	90	545680	50.0	51.4	
86 Ethylene Dibromide	107	6.918	6.918	0.000	99	504040	50.0	52.1	
87 1-Chlorohexane	91	7.312	7.312	0.000	93	562640	40.0	39.2	
88 Chlorobenzene	112	7.349	7.349	0.000	93	1456681	50.0	48.7	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.421	0.000	95	507502	50.0	50.3	
90 Ethylbenzene	106	7.424	7.424	0.000	99	777251	50.0	49.2	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	956654	50.0	50.0	
92 o-Xylene	106	7.900	7.900	0.000	97	960855	50.0	51.9	
93 Styrene	104	7.919	7.919	0.000	95	1622960	50.0	52.8	
94 Bromoform	173	8.099	8.099	0.000	94	366937	50.0	53.4	
95 Isopropylbenzene	105	8.242	8.242	0.000	96	2358022	50.0	50.7	
97 Cyclohexanone	55	8.335	8.335	0.000	96	987745	1500.0	1562.4	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	702218	50.0	51.4	
99 Bromobenzene	156	8.556	8.556	0.000	97	580341	50.0	49.8	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.571	0.000	88	221952	50.0	53.7	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	86	187920	50.0	49.7	
102 N-Propylbenzene	120	8.643	8.643	0.000	100	644130	50.0	50.1	
103 2-Chlorotoluene	126	8.736	8.736	0.000	95	570282	50.0	49.3	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	94	1965960	50.0	50.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.853	8.853	0.000	99	599944	50.0	50.1	
106 tert-Butylbenzene	119	9.122	9.122	0.000	95	1593556	50.0	50.5	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	98	2056135	50.0	48.2	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	452586	50.0	50.9	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	97	1072692	50.0	48.6	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1999249	50.0	47.3	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	93	1098799	50.0	47.2	
114 n-Butylbenzene	91	9.895	9.895	0.000	98	1881966	50.0	47.8	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	1042034	50.0	50.3	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.701	0.000	79	113504	50.0	52.8	
118 1,2,4-Trichlorobenzene	180	11.525	11.525	0.000	94	524831	50.0	51.0	
119 Hexachlorobutadiene	225	11.668	11.668	0.000	97	221636	50.0	45.7	
120 Naphthalene	128	11.788	11.788	0.000	97	1376775	50.0	48.3	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	380888	50.0	51.5	
S 143 1,3-Dichloropropene, Total	1				0		100.0	105.9	
S 142 Trihalomethanes, Total	1				0		200.0	203.8	
S 141 Xylenes, Total	106				0		100.0	101.8	
S 140 1,2-Dichloroethene, Total	1				0		100.0	95.5	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00160

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6573.D

Injection Date: 30-Jul-2023 17:35:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ics

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

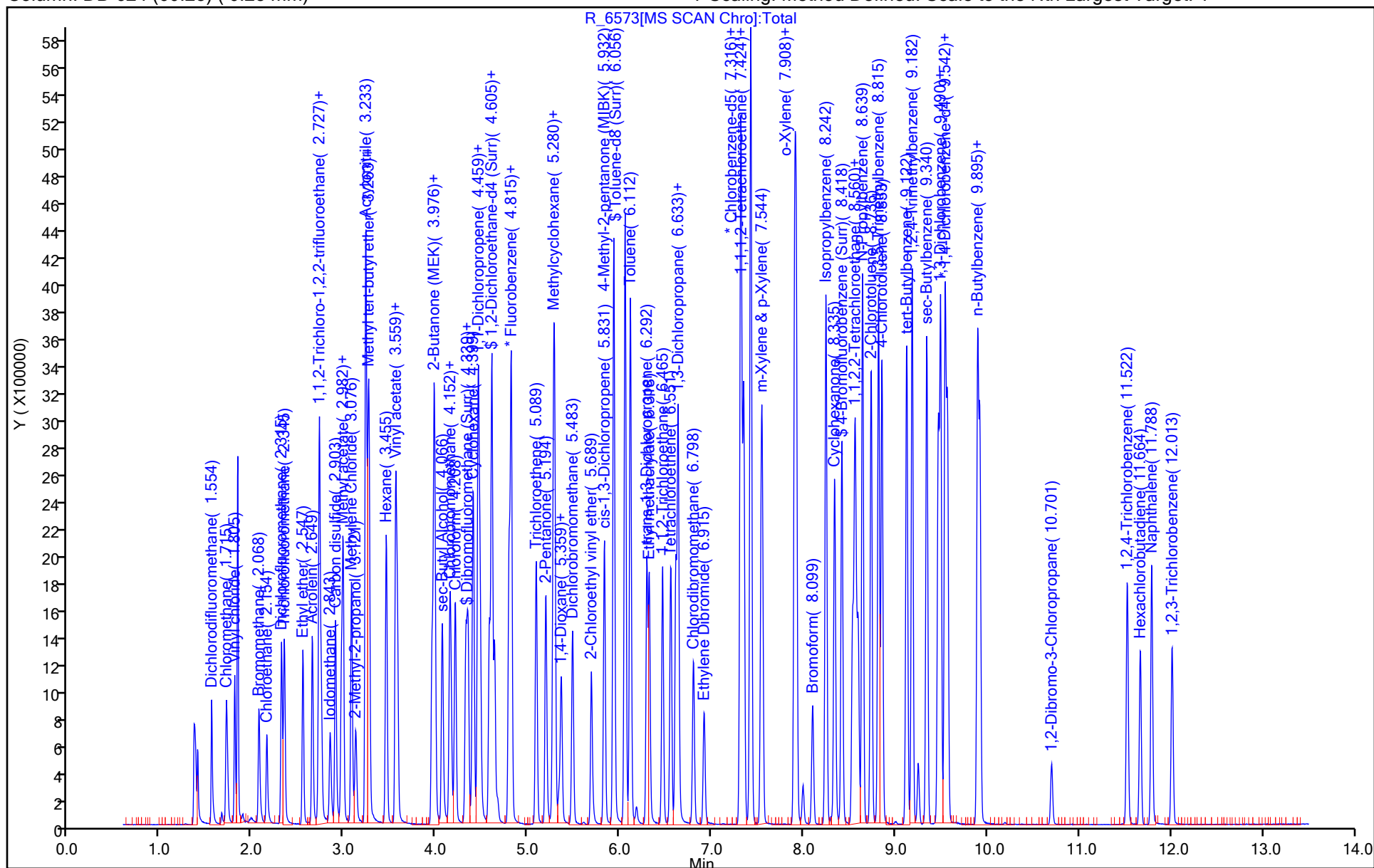
ALS Bottle#: 6

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6574.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 30-Jul-2023 17:56:30 ALS Bottle#: 7 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 10
 Misc. Info.: 280-0124001-017
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:51:01 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:49:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2216038	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.323	7.323	0.000	88	540571	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	852261	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	581727	50.0	50.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.579	4.579	0.000	0	698218	50.0	50.2	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2361298	50.0	50.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	86	834644	50.0	50.6	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	98	113811	10.0	10.8	
10 Chloromethane	50	1.715	1.715	0.000	99	188369	10.0	11.0	
11 Vinyl chloride	62	1.805	1.805	0.000	97	156488	10.0	11.4	
13 Bromomethane	94	2.071	2.071	0.000	91	93726	10.0	10.6	
14 Chloroethane	64	2.157	2.157	0.000	99	94553	10.0	10.8	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	97	211074	10.0	10.3	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	155446	10.0	10.5	
18 Ethyl ether	59	2.547	2.547	0.000	95	90791	10.0	9.77	
20 Acrolein	56	2.652	2.652	0.000	98	153444	98.8	98.4	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.723	2.723	0.000	62	63442	10.0	10.3	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	94	92629	10.0	10.8	
23 Acetone	43	2.746	2.746	0.000	99	182170	40.0	39.1	
25 Iodomethane	142	2.843	2.843	0.000	99	124898	10.0	10.5	
26 Carbon disulfide	76	2.903	2.903	0.000	100	358214	10.0	10.6	
28 Methyl acetate	43	2.967	2.967	0.000	99	179016	20.0	19.7	
29 3-Chloro-1-propene	41	2.986	2.986	0.000	92	212717	10.0	10.0	
30 Methylene Chloride	84	3.076	3.076	0.000	98	115656	10.0	10.0	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	96	100677	100.0	101.4	
32 Acrylonitrile	53	3.233	3.233	0.000	100	447455	100.0	100.6	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	279164	10.0	9.93	
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	95	106642	10.0	10.5	
35 Hexane	57	3.454	3.454	0.000	96	148854	10.0	10.6	
37 Vinyl acetate	43	3.559	3.559	0.000	97	420980	20.0	18.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	97	218815	10.0	10.2	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	201803	40.0	36.3	
45 cis-1,2-Dichloroethene	96	3.975	3.975	0.000	85	112706	10.0	10.0	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	91	157647	10.0	10.5	
48 sec-Butyl Alcohol	45	4.065	4.065	0.000	99	216271	240.0	225.1	
50 Chlorobromomethane	128	4.148	4.148	0.000	92	47468	10.0	10.1	
51 Tetrahydrofuran	42	4.163	4.163	0.000	94	73805	20.0	20.3	
52 Chloroform	83	4.208	4.208	0.000	95	189739	10.0	10.0	
53 1,1,1-Trichloroethane	97	4.347	4.347	0.000	97	155362	10.0	10.5	
54 Cyclohexane	56	4.403	4.403	0.000	94	193127	10.0	10.4	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	96	154249	10.0	10.3	
56 Carbon tetrachloride	117	4.463	4.463	0.000	94	131213	10.0	10.3	
57 Isobutyl alcohol	41	4.478	4.478	0.000	93	96074	250.0	233.7	
58 Benzene	78	4.601	4.601	0.000	97	456571	10.0	10.3	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	97	150604	10.0	9.91	
63 n-Heptane	43	4.793	4.793	0.000	96	127626	10.0	9.67	
65 Trichloroethene	95	5.089	5.089	0.000	97	112641	10.0	10.8	
66 2-Pentanone	43	5.194	5.194	0.000	98	245765	32.0	29.0	
67 Methylcyclohexane	55	5.280	5.280	0.000	95	136641	10.0	10.3	
68 1,2-Dichloropropane	63	5.291	5.291	0.000	97	127611	10.0	10.3	
70 1,4-Dioxane	88	5.344	5.344	0.000	86	31266	200.0	211.6	
71 Dibromomethane	93	5.362	5.362	0.000	91	66367	10.0	9.98	
72 Dichlorobromomethane	83	5.486	5.486	0.000	98	142796	10.0	9.82	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	63225	10.0	8.94	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	93	178003	10.0	10.0	
76 4-Methyl-2-pentanone (MIBK)	43	5.936	5.936	0.000	98	441994	40.0	36.7	
77 Toluene	91	6.112	6.112	0.000	97	464525	10.0	10.1	
78 trans-1,3-Dichloropropene	75	6.296	6.296	0.000	92	159104	10.0	9.80	
79 Ethyl methacrylate	69	6.322	6.322	0.000	91	123415	10.0	9.41	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	90498	10.0	9.96	
81 Tetrachloroethene	164	6.555	6.555	0.000	94	73658	10.0	10.4	
82 1,3-Dichloropropane	76	6.611	6.611	0.000	95	167922	10.0	9.96	
83 2-Hexanone	43	6.633	6.633	0.000	99	288294	40.0	36.9	
84 Chlorodibromomethane	129	6.802	6.802	0.000	90	101920	10.0	10.1	
86 Ethylene Dibromide	107	6.918	6.918	0.000	96	90874	10.0	9.93	
87 1-Chlorohexane	91	7.312	7.312	0.000	87	104743	8.00	7.71	
88 Chlorobenzene	112	7.349	7.349	0.000	93	285626	10.0	10.1	
89 1,1,1,2-Tetrachloroethane	131	7.420	7.420	0.000	94	96439	10.0	10.1	
90 Ethylbenzene	106	7.424	7.424	0.000	99	153297	10.0	10.3	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	187510	10.0	10.4	
92 o-Xylene	106	7.904	7.904	0.000	97	179582	10.0	10.2	
93 Styrene	104	7.919	7.919	0.000	95	295970	10.0	10.2	
94 Bromoform	173	8.099	8.099	0.000	93	64033	10.0	9.85	
95 Isopropylbenzene	105	8.241	8.241	0.000	96	456379	10.0	10.6	
97 Cyclohexanone	55	8.339	8.339	0.000	96	188883	300.0	325.1	
98 1,1,2,2-Tetrachloroethane	83	8.534	8.534	0.000	93	127980	10.0	10.1	
99 Bromobenzene	156	8.560	8.560	0.000	96	107428	10.0	9.92	
100 trans-1,4-Dichloro-2-butene	53	8.575	8.575	0.000	75	38713	10.0	10.1	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	84	34230	10.0	10.0	
102 N-Propylbenzene	120	8.643	8.643	0.000	99	127369	10.0	10.7	
103 2-Chlorotoluene	126	8.732	8.732	0.000	96	112532	10.0	10.5	
104 1,3,5-Trimethylbenzene	105	8.819	8.819	0.000	96	379363	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.852	8.852	0.000	98	116560	10.0	10.5	
106 tert-Butylbenzene	119	9.122	9.122	0.000	94	307203	10.0	10.5	
107 1,2,4-Trimethylbenzene	105	9.182	9.182	0.000	98	388533	10.0	10.1	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	92941	10.0	11.2	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	97	209616	10.0	10.2	
111 4-Isopropyltoluene	119	9.493	9.493	0.000	97	388476	10.0	10.2	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	94	214777	10.0	9.92	
114 n-Butylbenzene	91	9.898	9.898	0.000	99	350991	10.0	9.96	
115 1,2-Dichlorobenzene	146	9.921	9.921	0.000	96	198648	10.0	10.3	
116 1,2-Dibromo-3-Chloropropane	157	10.704	10.704	0.000	79	22842	10.0	11.4	
118 1,2,4-Trichlorobenzene	180	11.525	11.525	0.000	94	103227	10.0	10.8	
119 Hexachlorobutadiene	225	11.668	11.668	0.000	95	46668	10.0	10.4	
120 Naphthalene	128	11.791	11.791	0.000	98	319121	10.0	12.2	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	95	124142	10.0	17.7	
S 143 1,3-Dichloropropene, Total	1				0		20.0	19.8	
S 142 Trihalomethanes, Total	1				0		40.0	39.8	
S 141 Xylenes, Total	106				0		20.0	20.6	
S 140 1,2-Dichloroethene, Total	1				0		20.0	20.5	
S 139 Total BTEX	1				0			51.3	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 5.00

Units: uL

MV-Gas A_00160

Amount Added: 2.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6574.D

Injection Date: 30-Jul-2023 17:56:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

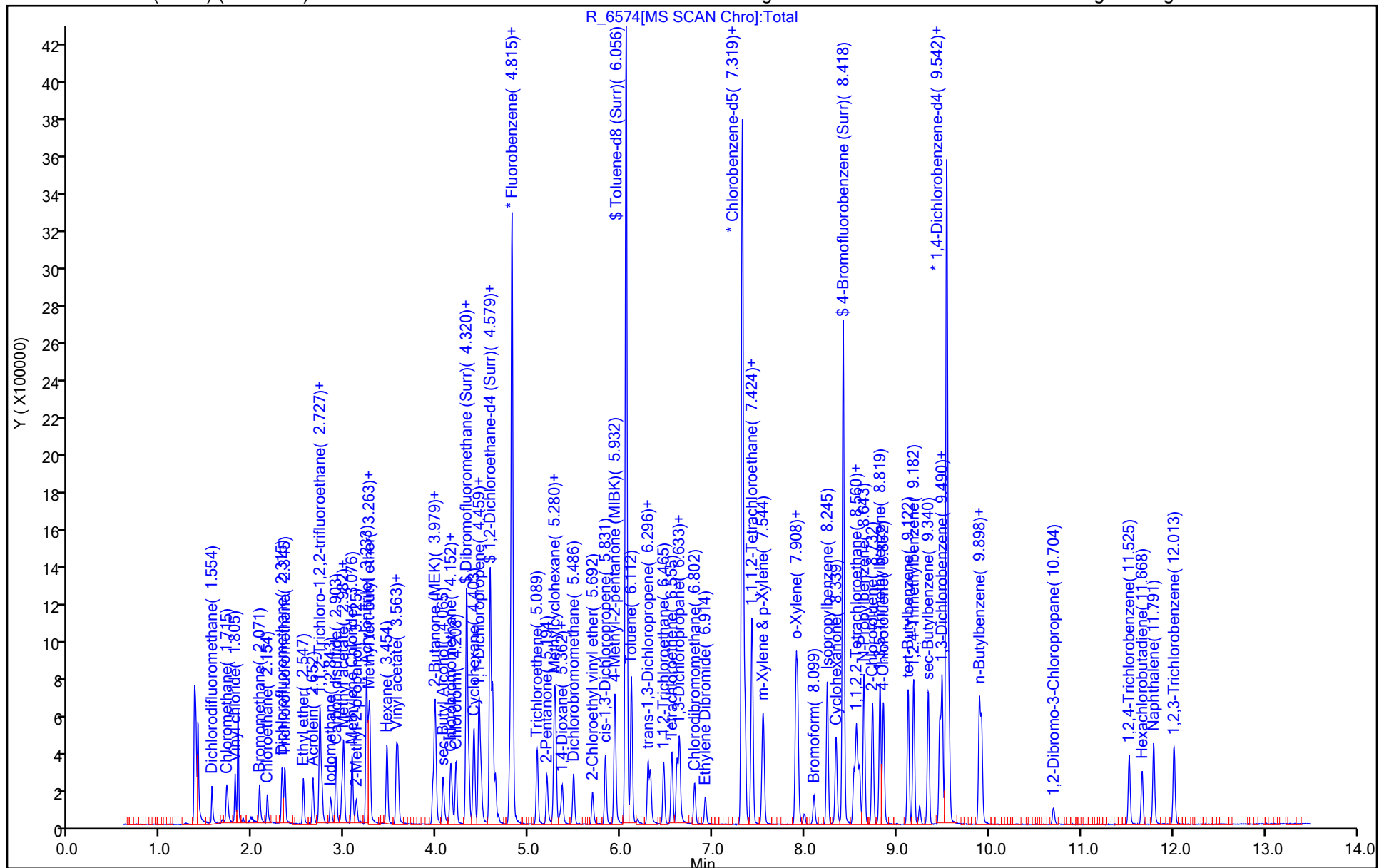
ALS Bottle#: 7

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6575.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 30-Jul-2023 18:16:30 ALS Bottle#: 8 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 5
 Misc. Info.: 280-0124001-018
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:51:03 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:52:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2161519	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	530920	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	841338	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.320	0.001	92	569705	50.0	50.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.579	4.579	0.000	0	683676	50.0	50.4	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2314856	50.0	50.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	85	818556	50.0	50.2	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	61186	5.00	6.02	
10 Chloromethane	50	1.715	1.715	0.000	99	114452	5.00	6.78	
11 Vinyl chloride	62	1.805	1.805	0.000	97	94067	5.00	6.90	
13 Bromomethane	94	2.071	2.071	0.000	91	54940	5.00	6.36	
14 Chloroethane	64	2.154	2.157	-0.003	99	53484	5.00	6.28	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	97	129853	5.00	6.48	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	87559	5.00	6.05	
18 Ethyl ether	59	2.547	2.547	0.000	93	49874	5.00	5.50	
20 Acrolein	56	2.652	2.652	0.000	98	75486	49.4	49.6	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.724	2.723	0.001	59	35957	5.00	6.00	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	93	52020	5.00	6.24	
23 Acetone	43	2.746	2.746	0.000	99	110795	20.0	20.3	
25 Iodomethane	142	2.844	2.843	0.001	99	70900	5.00	6.09	
26 Carbon disulfide	76	2.904	2.903	0.001	100	213941	5.00	6.48	
28 Methyl acetate	43	2.967	2.967	0.000	98	86749	10.0	9.81	
29 3-Chloro-1-propene	41	2.986	2.986	0.000	91	128009	5.00	6.20	
30 Methylene Chloride	84	3.076	3.076	0.000	98	68405	5.00	6.06	
31 2-Methyl-2-propanol	59	3.121	3.125	-0.004	96	43391	50.0	44.8	
32 Acrylonitrile	53	3.233	3.233	0.000	99	215091	50.0	49.6	
33 Methyl tert-butyl ether	73	3.260	3.256	0.004	97	143551	5.00	5.23	
34 trans-1,2-Dichloroethene	96	3.267	3.271	-0.004	94	64452	5.00	6.49	
35 Hexane	57	3.451	3.454	-0.003	95	77719	5.00	5.63	
37 Vinyl acetate	43	3.560	3.559	0.001	98	209098	10.0	9.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.575	3.574	0.001	96	128955	5.00	6.19	
43 2-Butanone (MEK)	43	3.957	3.953	0.004	99	99435	20.0	18.3	
45 cis-1,2-Dichloroethene	96	3.976	3.975	0.001	86	66080	5.00	6.04	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	91	89579	5.00	6.09	
48 sec-Butyl Alcohol	45	4.066	4.065	0.001	99	91744	120.0	105.0	
50 Chlorobromomethane	128	4.148	4.148	0.000	92	25398	5.00	5.52	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	91	32518	10.0	9.18	
52 Chloroform	83	4.208	4.208	0.000	94	113049	5.00	6.12	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	98	94276	5.00	6.52	
54 Cyclohexane	56	4.399	4.403	-0.004	96	104440	5.00	5.79	
55 1,1-Dichloropropene	75	4.456	4.455	0.001	94	90479	5.00	6.19	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	92	73876	5.00	5.97	
57 Isobutyl alcohol	41	4.482	4.478	0.004	90	42989	125.0	112.7	
58 Benzene	78	4.605	4.601	0.004	98	270519	5.00	6.25	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	96	81888	5.00	5.53	
63 n-Heptane	43	4.789	4.793	-0.004	87	66579	5.00	5.17	
65 Trichloroethene	95	5.085	5.089	-0.004	95	66968	5.00	6.54	
66 2-Pentanone	43	5.198	5.194	0.004	98	113217	16.0	14.6	
67 Methylcyclohexane	55	5.276	5.280	-0.004	97	75253	5.00	5.79	
68 1,2-Dichloropropane	63	5.291	5.291	0.000	95	69351	5.00	5.75	
70 1,4-Dioxane	88	5.340	5.344	-0.004	90	14449	100.0	106.0	
71 Dibromomethane	93	5.363	5.362	0.001	91	35897	5.00	5.53	
72 Dichlorobromomethane	83	5.486	5.486	0.000	98	81197	5.00	5.72	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	30964	5.00	4.73	
75 cis-1,3-Dichloropropene	75	5.835	5.831	0.004	94	97399	5.00	5.58	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	98	213872	20.0	19.0	
77 Toluene	91	6.112	6.112	0.000	98	274576	5.00	6.13	
78 trans-1,3-Dichloropropene	75	6.292	6.296	-0.004	92	82262	5.00	5.19	
79 Ethyl methacrylate	69	6.319	6.322	-0.003	91	55885	5.00	4.63	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	47759	5.00	5.39	
81 Tetrachloroethene	164	6.555	6.555	0.000	94	43399	5.00	6.22	
82 1,3-Dichloropropane	76	6.607	6.611	-0.004	89	92034	5.00	5.56	
83 2-Hexanone	43	6.637	6.633	0.004	99	133361	20.0	18.4	
84 Chlorodibromomethane	129	6.798	6.802	-0.004	91	53337	5.00	5.41	
86 Ethylene Dibromide	107	6.915	6.918	-0.003	96	46017	5.00	5.12	
87 1-Chlorohexane	91	7.308	7.312	-0.004	88	60610	4.00	4.54	
88 Chlorobenzene	112	7.346	7.349	-0.003	94	167285	5.00	6.02	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.420	0.001	95	53181	5.00	5.67	
90 Ethylbenzene	106	7.428	7.424	0.004	99	89495	5.00	6.10	
91 m-Xylene & p-Xylene	106	7.541	7.544	-0.003	0	107828	5.00	6.06	
92 o-Xylene	106	7.904	7.904	0.000	98	100357	5.00	5.83	
93 Styrene	104	7.923	7.919	0.004	97	160118	5.00	5.61	
94 Bromoform	173	8.099	8.099	0.000	93	32713	5.00	5.12	
95 Isopropylbenzene	105	8.245	8.241	0.004	96	257514	5.00	6.03	
97 Cyclohexanone	55	8.339	8.339	0.000	96	74435	150.0	137.4	
98 1,1,2,2-Tetrachloroethane	83	8.534	8.534	0.000	93	67770	5.00	5.41	
99 Bromobenzene	156	8.560	8.560	0.000	97	60912	5.00	5.70	
100 trans-1,4-Dichloro-2-butene	53	8.575	8.575	0.000	85	18458	5.00	4.87	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	85	17422	5.00	5.36	
102 N-Propylbenzene	120	8.639	8.643	-0.003	100	71656	5.00	6.08	
103 2-Chlorotoluene	126	8.736	8.732	0.004	95	63157	5.00	5.96	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	94	217693	5.00	6.14	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.856	8.852	0.004	98	65936	5.00	6.00	
106 tert-Butylbenzene	119	9.123	9.122	0.001	94	174154	5.00	6.01	
107 1,2,4-Trimethylbenzene	105	9.183	9.182	0.001	98	219968	5.00	5.92	
108 sec-Butylbenzene	134	9.344	9.340	0.004	95	47548	5.00	5.83	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	98	116868	5.00	5.78	
111 4-Isopropyltoluene	119	9.494	9.493	0.001	97	212668	5.00	5.82	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	93	121829	5.00	5.70	
114 n-Butylbenzene	91	9.899	9.898	0.001	98	189903	5.00	5.66	
115 1,2-Dichlorobenzene	146	9.921	9.921	0.000	97	107544	5.00	5.66	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	78	9831	5.00	4.99	
118 1,2,4-Trichlorobenzene	180	11.529	11.525	0.004	92	51045	5.00	5.41	
119 Hexachlorobutadiene	225	11.664	11.668	-0.004	95	27285	5.00	6.13	
120 Naphthalene	128	11.795	11.791	0.004	98	119645	5.00	4.76	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	95	45763	5.00	4.27	
S 143 1,3-Dichloropropene, Total	1				0		10.0	10.8	
S 142 Trihalomethanes, Total	1				0		20.0	22.4	
S 141 Xylenes, Total	106				0		10.0	11.9	
S 140 1,2-Dichloroethene, Total	1				0		10.0	12.5	
S 139 Total BTEX	1				0			30.4	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 2.50

Units: uL

MV-Gas A_00160

Amount Added: 1.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6575.D

Injection Date: 30-Jul-2023 18:16:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

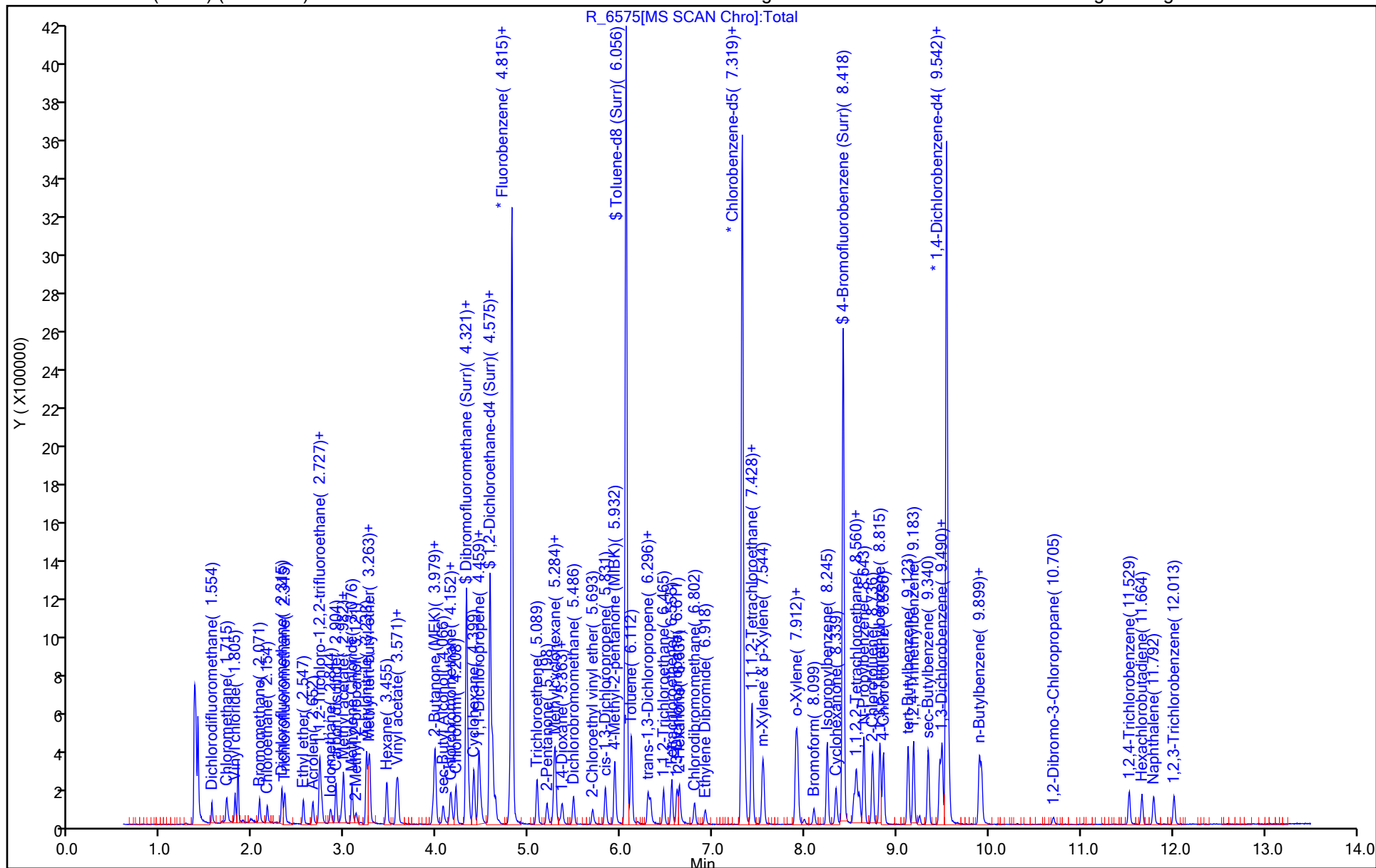
ALS Bottle#: 8

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6576.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 30-Jul-2023 18:37:30 ALS Bottle#: 9 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 2
 Misc. Info.: 280-0124001-019
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:51:04 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:53:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2179494	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	532739	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	834854	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	578558	50.0	50.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.579	-0.004	0	699506	50.0	51.1	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	95	2320241	50.0	50.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	85	821693	50.0	50.8	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	98	19853	2.00	2.02	
10 Chloromethane	50	1.715	1.715	0.000	97	35575	2.00	1.94	
11 Vinyl chloride	62	1.805	1.805	0.000	96	26808	2.00	1.76	
13 Bromomethane	94	2.067	2.071	-0.004	91	18232	2.00	2.09	
14 Chloroethane	64	2.154	2.157	-0.003	98	18555	2.00	2.16	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	96	42905	2.00	2.12	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	31031	2.00	2.12	
18 Ethyl ether	59	2.543	2.547	-0.004	95	17467	2.00	1.91	
20 Acrolein	56	2.648	2.652	-0.004	99	28663	19.8	18.7	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.727	2.723	0.004	61	11153	2.00	1.85	
22 1,1-Dichloroethene	96	2.731	2.727	0.004	95	15881	2.00	1.89	
23 Acetone	43	2.746	2.746	0.000	99	68921	8.00	8.33	
25 Iodomethane	142	2.840	2.843	-0.003	98	23950	2.00	2.04	
26 Carbon disulfide	76	2.900	2.903	-0.003	99	68130	2.00	2.05	
28 Methyl acetate	43	2.967	2.967	0.000	98	35079	4.00	3.93	
29 3-Chloro-1-propene	41	2.982	2.986	-0.004	91	43513	2.00	2.09	
30 Methylene Chloride	84	3.076	3.076	0.000	98	23805	2.00	2.09	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	96	17585	20.0	18.0	
32 Acrylonitrile	53	3.237	3.233	0.004	100	83404	20.0	19.1	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	49670	2.00	1.80	
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	95	18595	2.00	1.86	
35 Hexane	57	3.454	3.454	0.000	95	24488	2.00	1.77	
37 Vinyl acetate	43	3.563	3.559	0.004	98	61193	4.00	3.55	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	39196	2.00	1.87	
43 2-Butanone (MEK)	43	3.957	3.953	0.004	99	39792	8.00	7.27	
45 cis-1,2-Dichloroethene	96	3.975	3.975	0.000	84	21643	2.00	1.96	
46 2,2-Dichloropropane	77	3.979	3.983	-0.004	72	27174	2.00	1.83	
48 sec-Butyl Alcohol	45	4.069	4.065	0.004	98	34401	48.0	47.0	
50 Chlorobromomethane	128	4.148	4.148	0.000	93	8831	2.00	1.90	
51 Tetrahydrofuran	42	4.163	4.163	0.000	91	12203	4.00	3.42	
52 Chloroform	83	4.208	4.208	0.000	94	36242	2.00	1.95	
53 1,1,1-Trichloroethane	97	4.339	4.347	-0.008	95	26827	2.00	1.84	
54 Cyclohexane	56	4.403	4.403	0.000	95	33163	2.00	1.82	
55 1,1-Dichloropropene	75	4.459	4.455	0.004	94	26135	2.00	1.77	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	92	23587	2.00	1.89	
57 Isobutyl alcohol	41	4.482	4.478	0.004	91	13964	50.0	43.2	
58 Benzene	78	4.605	4.601	0.004	95	81329	2.00	1.86	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	96	28202	2.00	1.89	
63 n-Heptane	43	4.789	4.793	-0.004	73	23619	2.00	1.82	
65 Trichloroethene	95	5.093	5.089	0.004	97	21019	2.00	2.04	
66 2-Pentanone	43	5.198	5.194	0.004	98	37402	6.40	5.92	
67 Methylcyclohexane	55	5.276	5.280	-0.004	92	22565	2.00	1.72	
68 1,2-Dichloropropane	63	5.287	5.291	-0.004	93	22131	2.00	1.82	
70 1,4-Dioxane	88	5.344	5.344	0.000	27	5021	40.0	43.7	
71 Dibromomethane	93	5.359	5.362	-0.003	94	13348	2.00	2.04	
72 Dichlorobromomethane	83	5.486	5.486	0.000	98	26308	2.00	1.84	
74 2-Chloroethyl vinyl ether	63	5.696	5.689	0.007	90	10785	2.00	1.95	
75 cis-1,3-Dichloropropene	75	5.835	5.831	0.004	94	31725	2.00	1.81	
76 4-Methyl-2-pentanone (MIBK)	43	5.936	5.936	0.000	97	76213	8.00	7.69	
77 Toluene	91	6.116	6.112	0.004	96	86643	2.00	1.92	
78 trans-1,3-Dichloropropene	75	6.296	6.296	0.000	95	26091	2.00	1.63	
79 Ethyl methacrylate	69	6.318	6.322	-0.004	89	18523	2.00	1.89	
80 1,1,2-Trichloroethane	97	6.468	6.465	0.003	91	17015	2.00	1.90	
81 Tetrachloroethene	164	6.555	6.555	0.000	92	13231	2.00	1.89	
82 1,3-Dichloropropane	76	6.611	6.611	0.000	94	30261	2.00	1.82	
83 2-Hexanone	43	6.637	6.633	0.004	97	41835	8.00	7.04	
84 Chlorodibromomethane	129	6.802	6.802	0.000	88	19266	2.00	1.95	
86 Ethylene Dibromide	107	6.922	6.918	0.004	95	18776	2.00	2.08	
87 1-Chlorohexane	91	7.316	7.312	0.004	34	21134	1.60	1.58	
88 Chlorobenzene	112	7.345	7.349	-0.004	93	53183	2.00	1.91	
89 1,1,1,2-Tetrachloroethane	131	7.424	7.420	0.004	91	17176	2.00	1.83	
90 Ethylbenzene	106	7.432	7.424	0.008	99	26902	2.00	1.83	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	32780	2.00	1.84	
92 o-Xylene	106	7.900	7.904	-0.004	97	29132	2.00	1.69	
93 Styrene	104	7.923	7.919	0.004	95	48478	2.00	1.69	
94 Bromoform	173	8.103	8.099	0.004	89	12098	2.00	1.89	
95 Isopropylbenzene	105	8.245	8.241	0.004	97	75615	2.00	1.78	
97 Cyclohexanone	55	8.339	8.339	0.000	95	25458	60.0	54.5	
98 1,1,2,2-Tetrachloroethane	83	8.534	8.534	0.000	93	24736	2.00	1.99	
99 Bromobenzene	156	8.556	8.560	-0.004	97	20729	2.00	1.95	
100 trans-1,4-Dichloro-2-butene	53	8.579	8.575	0.004	82	6441	2.00	1.71	
101 1,2,3-Trichloropropane	110	8.601	8.594	0.007	84	6141	2.00	2.15	
102 N-Propylbenzene	120	8.643	8.643	0.001	99	20966	2.00	1.79	
103 2-Chlorotoluene	126	8.736	8.732	0.004	95	19237	2.00	1.83	
104 1,3,5-Trimethylbenzene	105	8.819	8.819	0.000	93	60209	2.00	1.71	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.856	8.852	0.004	97	20572	2.00	1.89	
106 tert-Butylbenzene	119	9.126	9.122	0.004	95	50328	2.00	1.75	
107 1,2,4-Trimethylbenzene	105	9.182	9.182	0.000	99	58668	2.00	1.83	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	13731	2.00	1.70	
110 1,3-Dichlorobenzene	146	9.471	9.467	0.004	96	38033	2.00	1.89	
111 4-Isopropyltoluene	119	9.493	9.493	0.000	97	57628	2.00	1.87	
112 1,4-Dichlorobenzene	146	9.568	9.565	0.003	90	42663	2.00	2.01	
114 n-Butylbenzene	91	9.898	9.898	0.000	98	52488	2.00	1.91	
115 1,2-Dichlorobenzene	146	9.925	9.921	0.004	92	34352	2.00	1.82	
116 1,2-Dibromo-3-Chloropropane	157	10.716	10.704	0.012	71	4088	2.00	2.09	M
118 1,2,4-Trichlorobenzene	180	11.529	11.525	0.004	90	16835	2.00	1.80	
119 Hexachlorobutadiene	225	11.671	11.668	0.003	93	9548	2.00	2.16	
120 Naphthalene	128	11.795	11.791	0.004	98	43486	2.00	1.87	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	89	18298	2.00	-0.8488	
S 143 1,3-Dichloropropene, Total	1				0		4.00	3.44	
S 142 Trihalomethanes, Total	1				0		8.00	7.62	
S 141 Xylenes, Total	106				0		4.00	3.52	
S 140 1,2-Dichloroethene, Total	1				0		4.00	3.82	
S 139 Total BTEX	1				0			9.13	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

Cal Dil Std_00214

Amount Added: 20.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 31-Jul-2023 08:51:05

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6576.D

Injection Date: 30-Jul-2023 18:37:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

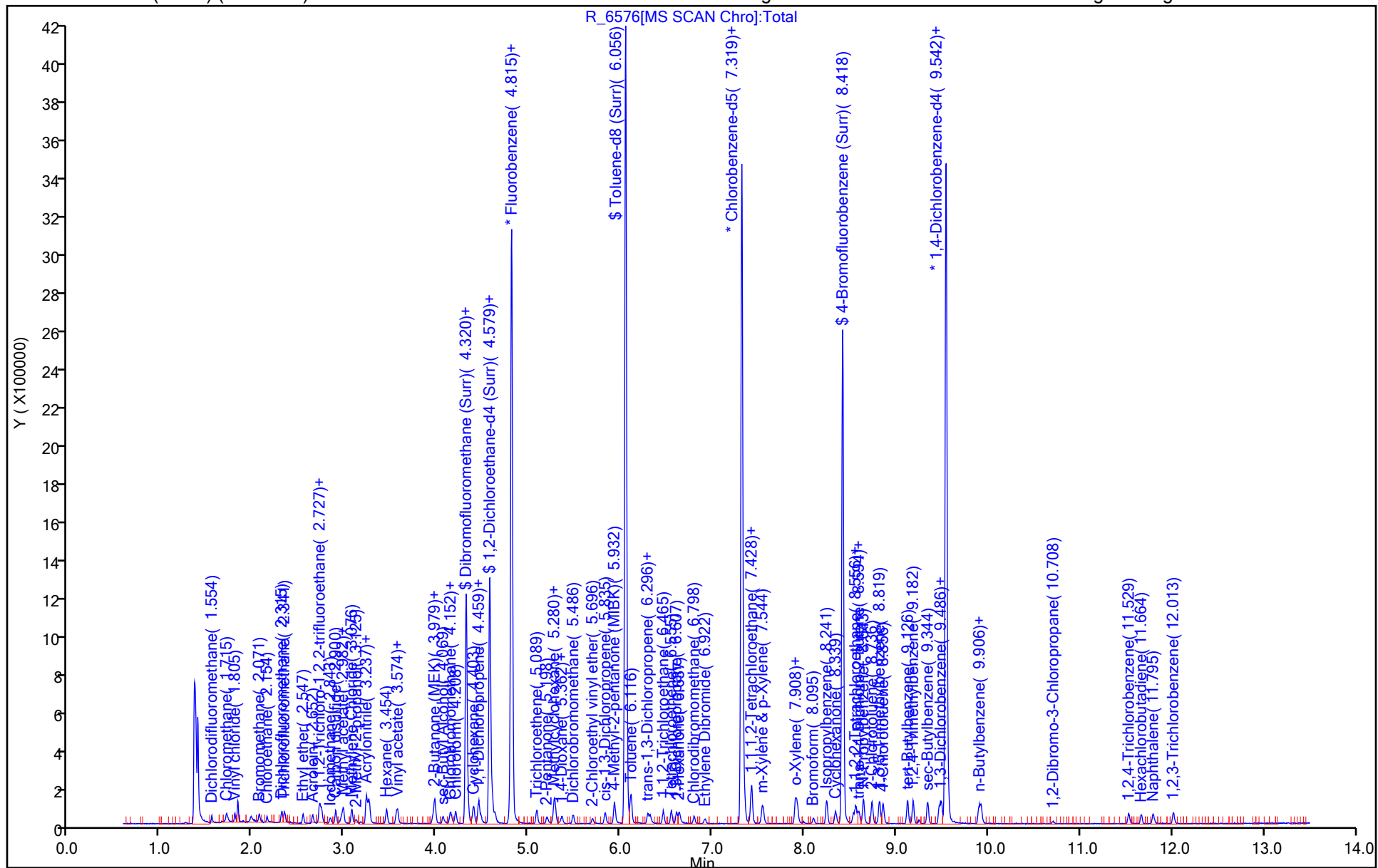
ALS Bottle#: 9

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



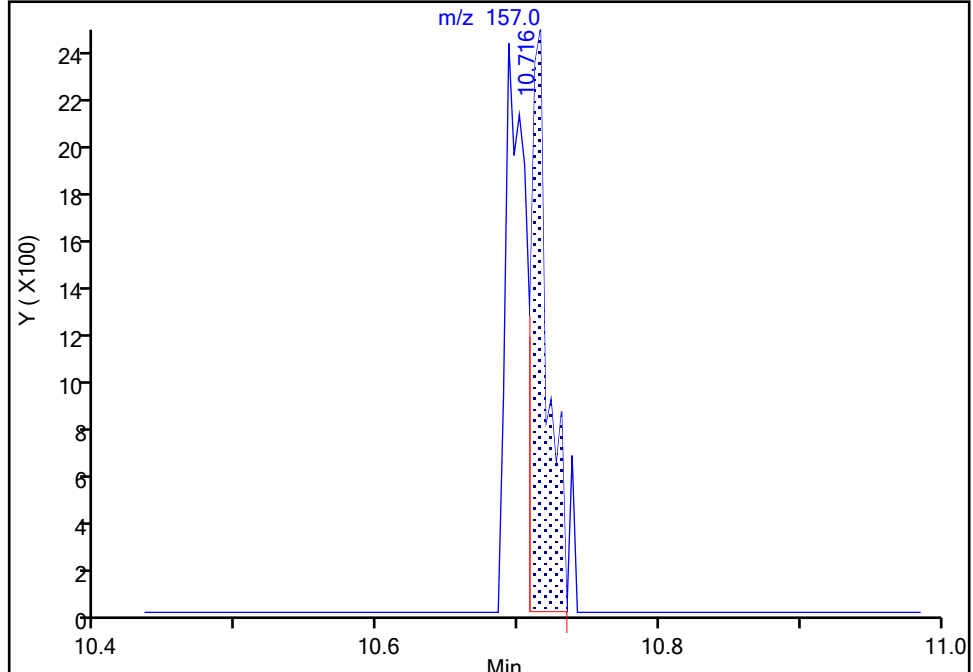
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6576.D
Injection Date: 30-Jul-2023 18:37:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 9 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

116 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

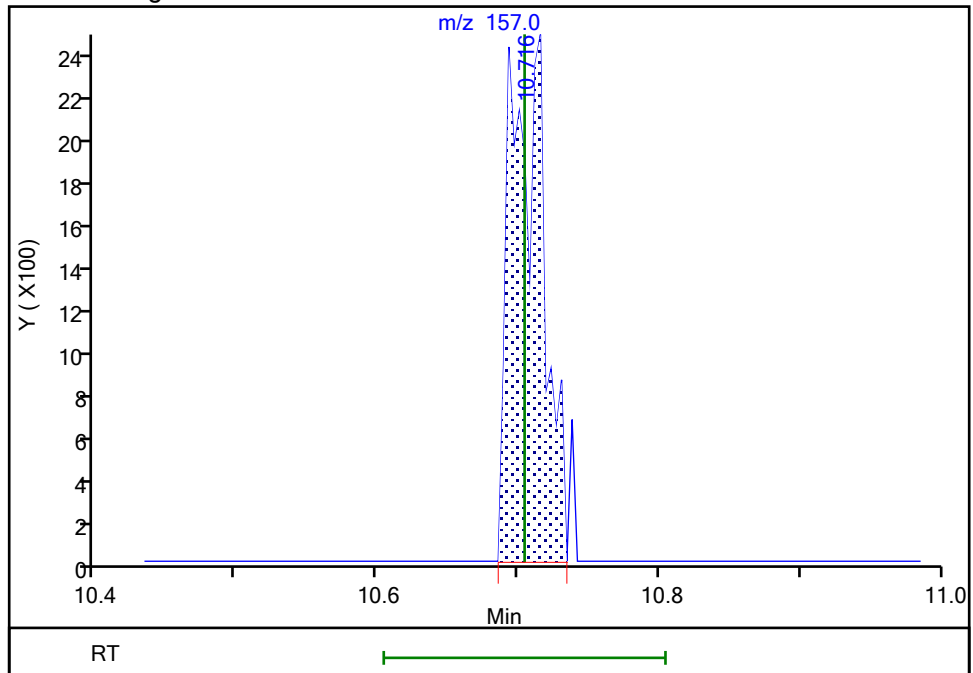
RT: 10.72
Area: 2036
Amount: 1.471945
Amount Units: ug/l

Processing Integration Results



RT: 10.72
Area: 4088
Amount: 2.089839
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:53:08 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 30-Jul-2023 18:58:30 ALS Bottle#: 10 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 1
 Misc. Info.: 280-0124001-020
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:51:06 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:57:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2130300	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	89	515326	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	789830	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	574971	50.0	51.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.579	4.579	0.000	0	660159	50.0	49.3	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	95	2249817	50.0	50.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.418	-0.004	84	787072	50.0	51.5	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	96	6696	1.00	0.7843	
10 Chloromethane	50	1.715	1.715	0.000	96	14329	1.00	0.6671	
11 Vinyl chloride	62	1.809	1.805	0.004	97	12004	1.00	0.6663	
13 Bromomethane	94	2.067	2.071	-0.004	87	8686	1.00	1.02	
14 Chloroethane	64	2.154	2.157	-0.003	96	7852	1.00	0.9352	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	98	18012	1.00	0.9115	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	96	11436	1.00	0.8012	
18 Ethyl ether	59	2.543	2.547	-0.004	97	8219	1.00	0.9198	
20 Acrolein	56	2.652	2.652	0.000	98	11446	9.88	7.64	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.723	2.723	0.000	53	4583	1.00	0.7759	M
22 1,1-Dichloroethene	96	2.731	2.727	0.004	92	6698	1.00	0.8148	
23 Acetone	43	2.750	2.746	0.004	99	51936	4.00	3.92	
25 Iodomethane	142	2.843	2.843	0.000	97	11142	1.00	0.9704	
26 Carbon disulfide	76	2.900	2.903	-0.003	100	32024	1.00	0.9839	
28 Methyl acetate	43	2.971	2.967	0.004	97	13331	2.00	1.53	
29 3-Chloro-1-propene	41	2.986	2.986	0.000	89	22225	1.00	1.09	
30 Methylene Chloride	84	3.076	3.076	0.000	96	10866	1.00	0.9766	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	89	7203	10.0	7.55	
32 Acrylonitrile	53	3.233	3.233	0.000	98	33096	10.0	7.74	
33 Methyl tert-butyl ether	73	3.259	3.256	0.003	89	21493	1.00	0.7952	M
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	96	9021	1.00	0.9211	
35 Hexane	57	3.451	3.454	-0.003	92	9556	1.00	0.7136	
37 Vinyl acetate	43	3.563	3.559	0.004	98	26510	2.00	2.14	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	95	19006	1.00	0.9258	
43 2-Butanone (MEK)	43	3.957	3.953	0.004	99	19181	4.00	3.59	M
45 cis-1,2-Dichloroethene	96	3.979	3.975	0.004	82	9468	1.00	0.8775	
46 2,2-Dichloropropane	77	3.987	3.983	0.004	73	10373	1.00	0.7154	
48 sec-Butyl Alcohol	45	4.069	4.065	0.004	94	12099	24.0	25.0	
50 Chlorobromomethane	128	4.144	4.148	-0.004	95	4450	1.00	0.9806	
51 Tetrahydrofuran	42	4.163	4.163	0.000	91	5160	2.00	1.48	
52 Chloroform	83	4.208	4.208	0.000	96	16225	1.00	0.8914	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	62	11578	1.00	0.8119	
54 Cyclohexane	56	4.399	4.403	-0.004	90	12789	1.00	0.7197	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	91	11732	1.00	0.8143	
56 Carbon tetrachloride	117	4.455	4.463	-0.008	90	9895	1.00	0.8112	M
57 Isobutyl alcohol	41	4.485	4.478	0.007	39	7066	25.0	27.3	
58 Benzene	78	4.601	4.601	0.000	96	36412	1.00	0.8538	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	94	14138	1.00	0.9680	
63 n-Heptane	43	4.796	4.793	0.003	32	9946	1.00	0.7836	M
65 Trichloroethene	95	5.089	5.089	0.000	91	7893	1.00	0.7938	
66 2-Pentanone	43	5.201	5.194	0.007	96	14749	3.20	3.40	
67 Methylcyclohexane	55	5.276	5.280	-0.004	84	9224	1.00	0.7203	
68 1,2-Dichloropropane	63	5.287	5.291	-0.004	82	9878	1.00	0.8308	
70 1,4-Dioxane	88	5.344	5.344	0.000	1	1175	20.0	18.8	
71 Dibromomethane	93	5.366	5.362	0.004	85	5609	1.00	0.8773	
72 Dichlorobromomethane	83	5.486	5.486	0.000	98	12059	1.00	0.8624	
74 2-Chloroethyl vinyl ether	63	5.692	5.689	0.003	85	3965	1.00	1.03	M
75 cis-1,3-Dichloropropene	75	5.835	5.831	0.004	94	13417	1.00	0.7913	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	98	31680	4.00	4.15	
77 Toluene	91	6.112	6.112	0.000	97	38437	1.00	0.8705	
78 trans-1,3-Dichloropropene	75	6.303	6.296	0.007	96	12761	1.00	0.8175	
79 Ethyl methacrylate	69	6.326	6.322	0.004	95	6808	1.00	1.05	
80 1,1,2-Trichloroethane	97	6.472	6.465	0.007	82	7404	1.00	0.8480	M
81 Tetrachloroethene	164	6.555	6.555	0.000	93	5656	1.00	0.8348	M
82 1,3-Dichloropropane	76	6.611	6.611	0.000	93	13647	1.00	0.8495	
83 2-Hexanone	43	6.641	6.633	0.008	97	19174	4.00	4.33	M
84 Chlorodibromomethane	129	6.806	6.802	0.004	83	8197	1.00	0.8558	
86 Ethylene Dibromide	107	6.914	6.918	-0.004	96	6950	1.00	0.7969	
87 1-Chlorohexane	91	7.319	7.312	0.007	33	9538	0.8000	0.7361	M
88 Chlorobenzene	112	7.345	7.349	-0.004	93	25339	1.00	0.9399	
89 1,1,1,2-Tetrachloroethane	131	7.420	7.420	0.000	81	8061	1.00	0.8856	
90 Ethylbenzene	106	7.432	7.424	0.008	98	11536	1.00	0.8103	
91 m-Xylene & p-Xylene	106	7.548	7.544	0.004	0	13969	1.00	0.8089	M
92 o-Xylene	106	7.904	7.904	0.000	94	12741	1.00	0.7624	
93 Styrene	104	7.927	7.919	0.008	74	19790	1.00	0.7143	
94 Bromoform	173	8.099	8.099	0.000	89	5199	1.00	0.8390	
95 Isopropylbenzene	105	8.245	8.241	0.004	97	29910	1.00	0.7463	
97 Cyclohexanone	55	8.339	8.339	0.000	90	11429	30.0	31.6	
98 1,1,2,2-Tetrachloroethane	83	8.534	8.534	0.000	90	10358	1.00	0.8804	
99 Bromobenzene	156	8.560	8.560	0.000	95	9089	1.00	0.9058	
100 trans-1,4-Dichloro-2-butene	53	8.586	8.575	0.011	60	2807	1.00	0.7886	M
101 1,2,3-Trichloropropane	110	8.598	8.594	0.004	81	1881	1.00	0.9493	
102 N-Propylbenzene	120	8.646	8.643	0.004	99	8665	1.00	0.7832	
103 2-Chlorotoluene	126	8.736	8.732	0.004	94	8891	1.00	0.8932	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	96	25247	1.00	0.7583	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.856	8.852	0.004	98	8209	1.00	0.7955	M
106 tert-Butylbenzene	119	9.126	9.122	0.004	94	21313	1.00	0.7841	
107 1,2,4-Trimethylbenzene	105	9.190	9.182	0.008	98	24869	1.00	1.01	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	5474	1.00	0.7149	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	96	18040	1.00	0.9496	
111 4-Isopropyltoluene	119	9.493	9.493	0.000	96	22544	1.00	1.00	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	89	20615	1.00	1.03	
114 n-Butylbenzene	91	9.898	9.898	0.000	97	18584	1.00	1.00	
115 1,2-Dichlorobenzene	146	9.921	9.921	0.000	94	15990	1.00	0.8969	
116 1,2-Dibromo-3-Chloropropane	157	10.689	10.704	-0.015	1	1304	1.00	0.7046	M
118 1,2,4-Trichlorobenzene	180	11.529	11.525	0.004	89	8022	1.00	0.9056	
119 Hexachlorobutadiene	225	11.660	11.668	-0.008	87	4083	1.00	0.9777	M
120 Naphthalene	128	11.803	11.791	0.012	96	18457	1.00	0.9443	M
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	90	8231	1.00	-2.71	M
S 143 1,3-Dichloropropene, Total	1				0		2.00	1.61	
S 142 Trihalomethanes, Total	1				0		4.00	3.45	
S 141 Xylenes, Total	106				0		2.00	1.57	
S 140 1,2-Dichloroethene, Total	1				0		2.00	1.80	
S 139 Total BTEX	1				0			4.11	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

Cal Dil Std_00214

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D

Injection Date: 30-Jul-2023 18:58:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

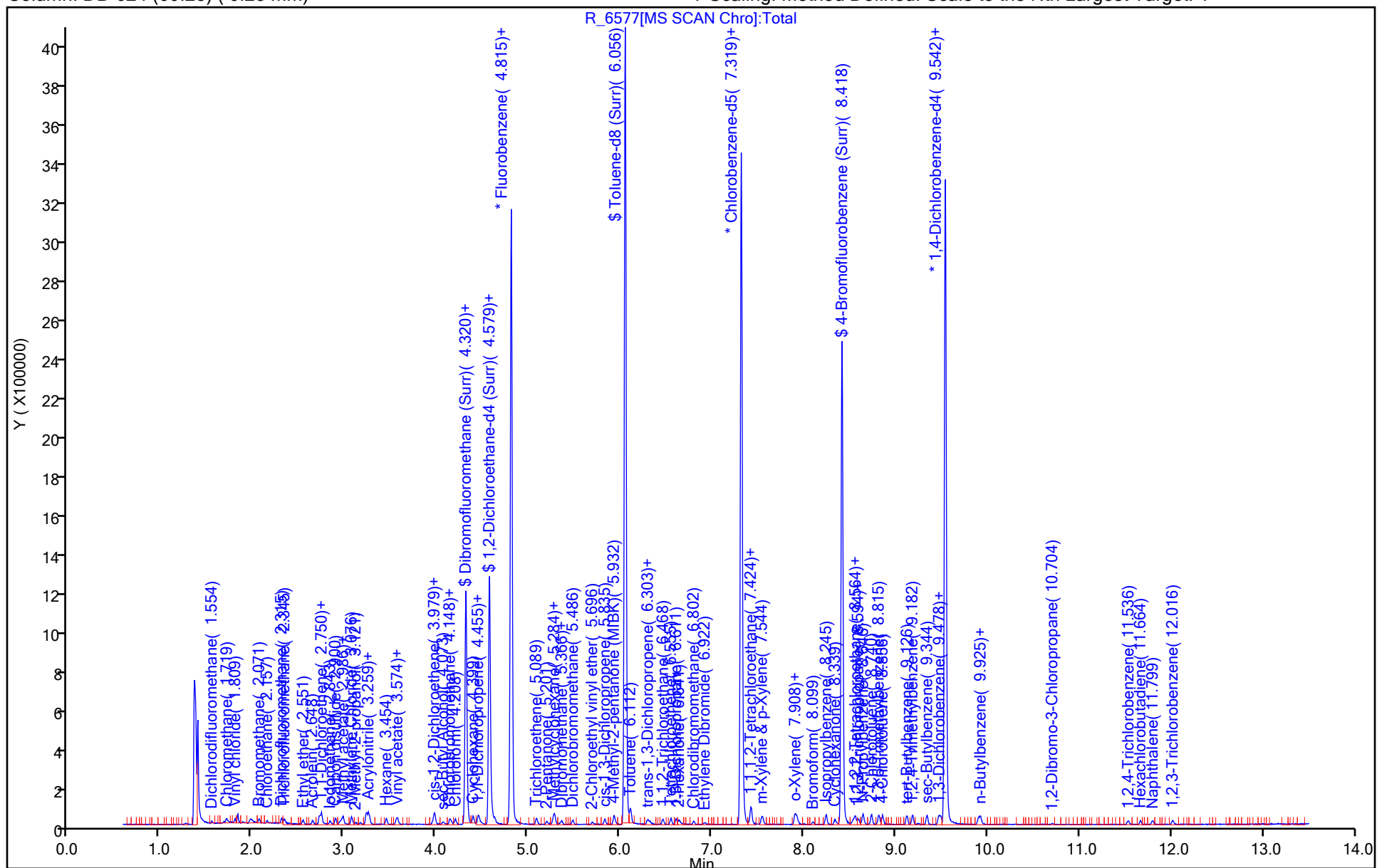
ALS Bottle#: 10

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



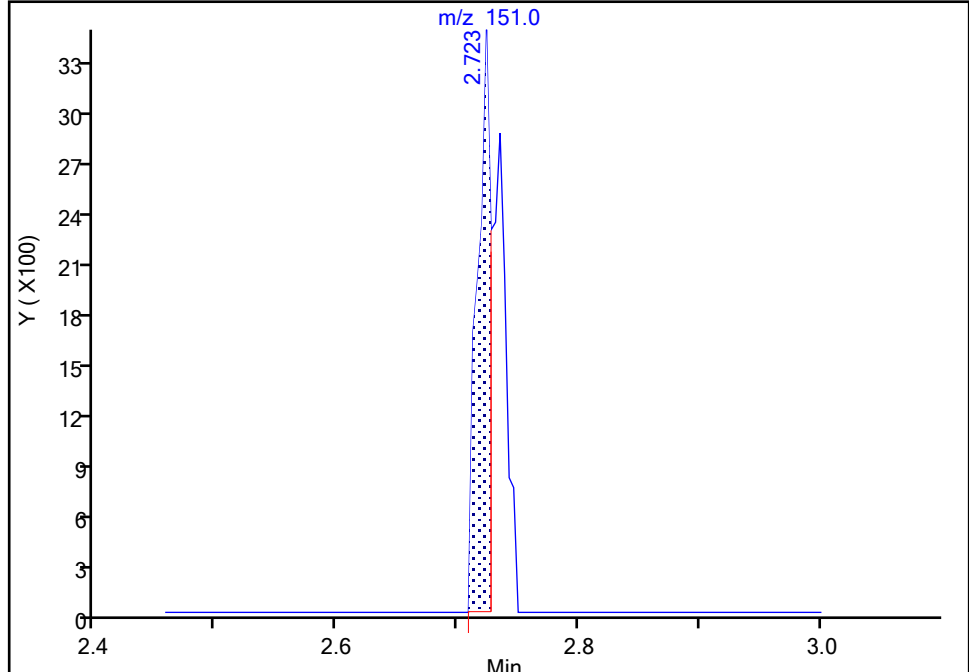
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1
Signal: 1

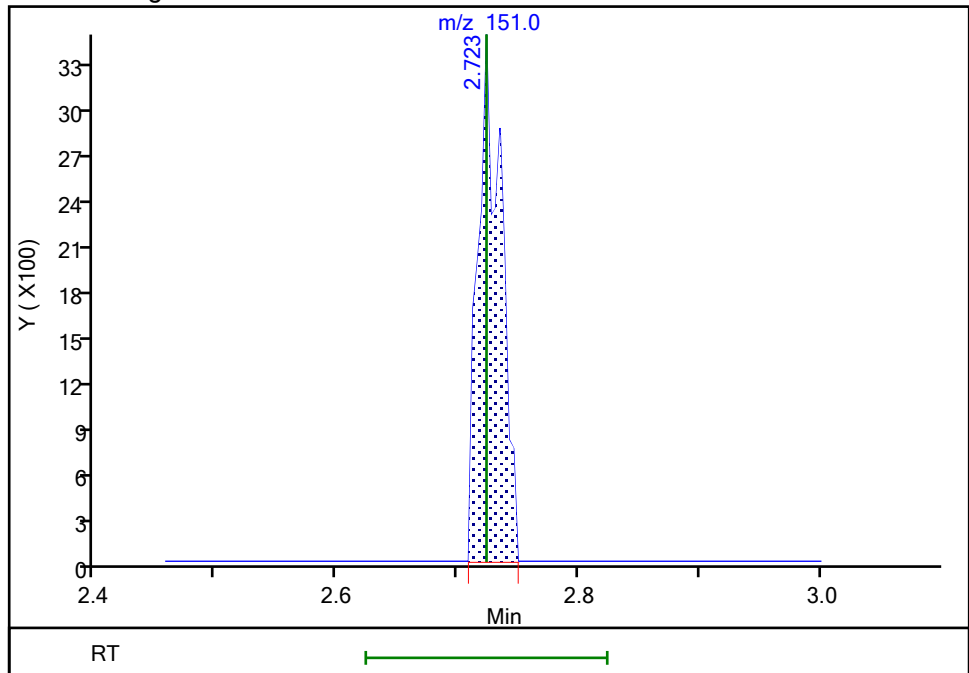
RT: 2.72
Area: 2625
Amount: 0.466257
Amount Units: ug/l

Processing Integration Results



RT: 2.72
Area: 4583
Amount: 0.775883
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:53:41 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

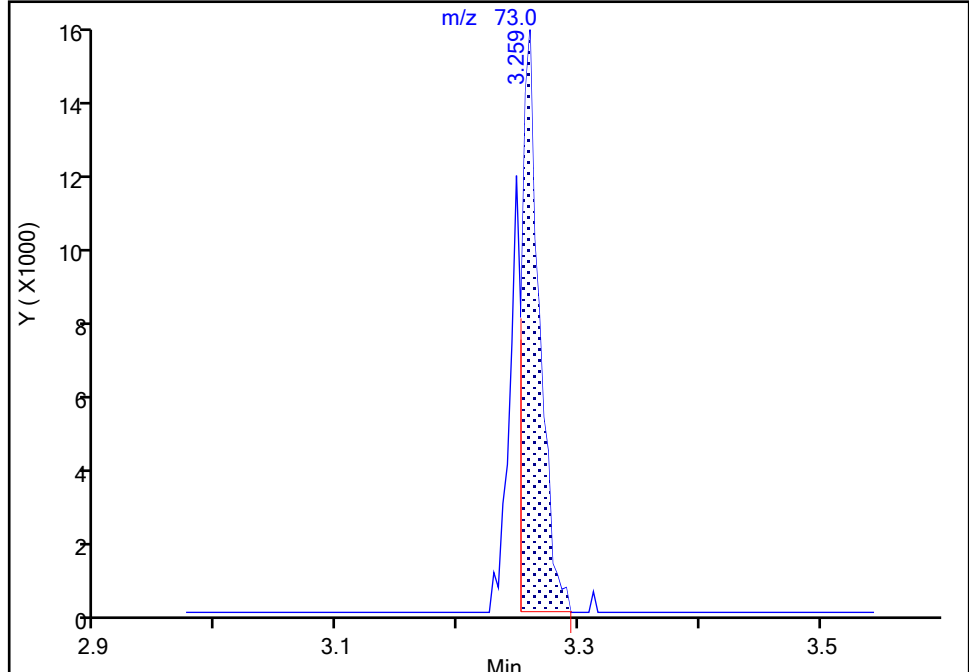
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

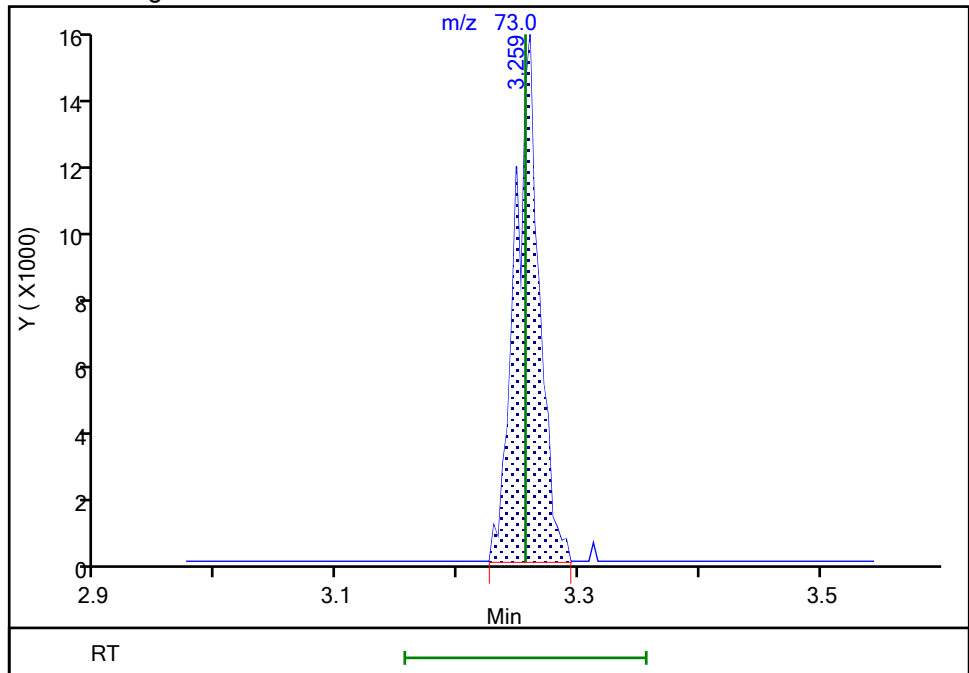
RT: 3.26
Area: 15351
Amount: 0.810646
Amount Units: ug/l

Processing Integration Results



RT: 3.26
Area: 21493
Amount: 0.795242
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:53:58 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

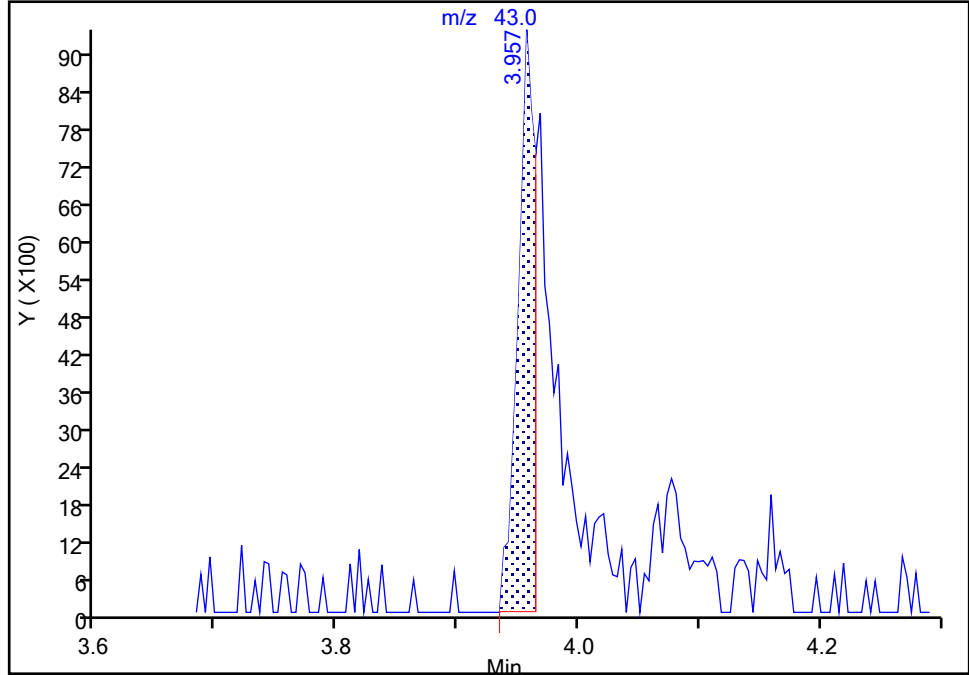
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

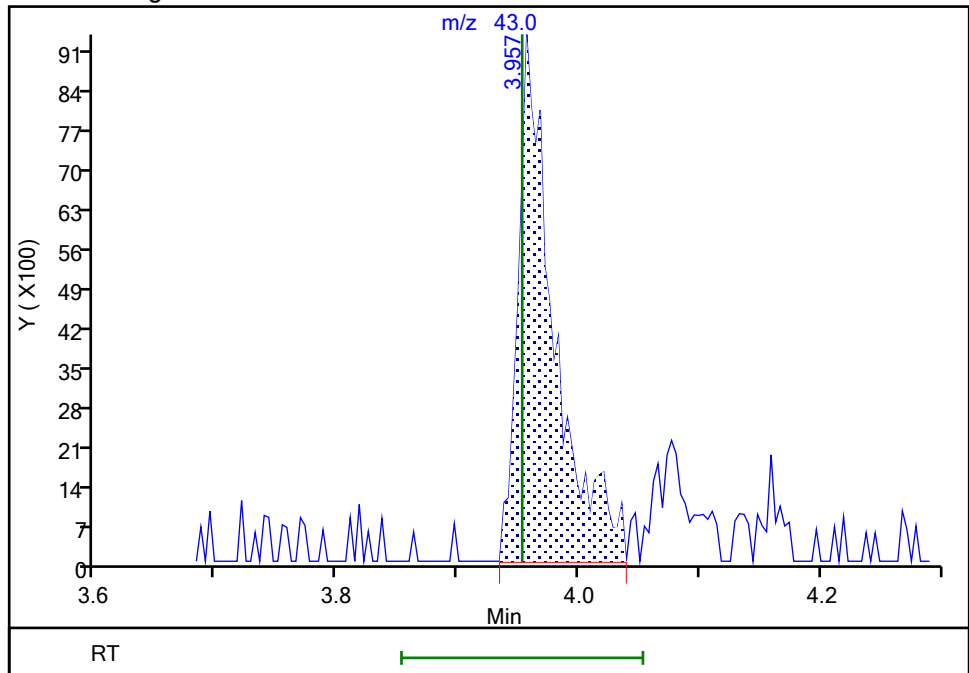
RT: 3.96
Area: 9193
Amount: 3.831590
Amount Units: ug/l

Processing Integration Results



RT: 3.96
Area: 19181
Amount: 3.585353
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:54:12 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

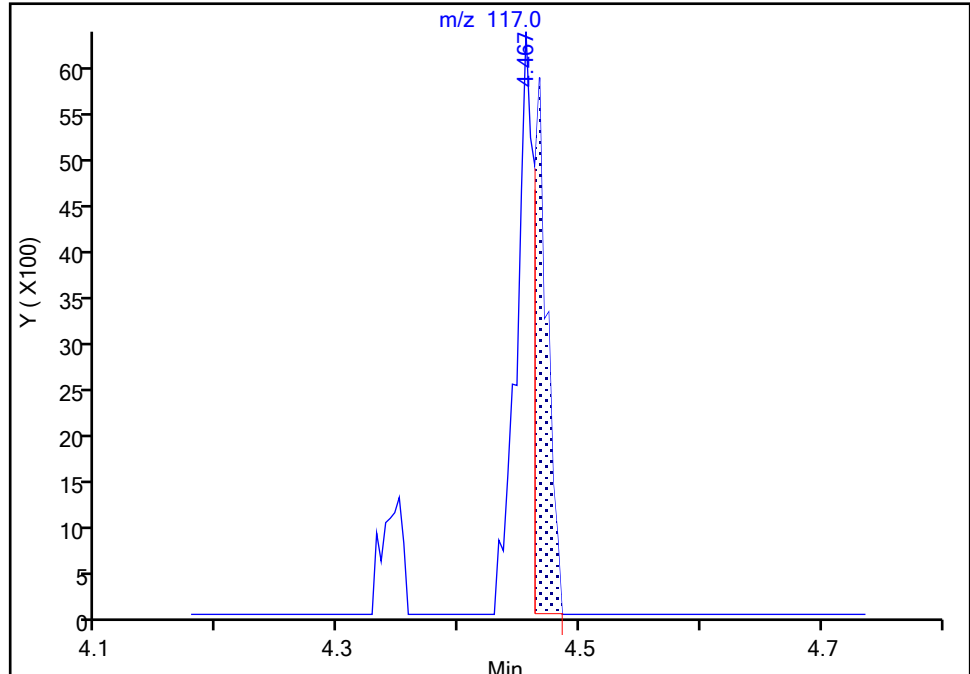
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

56 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

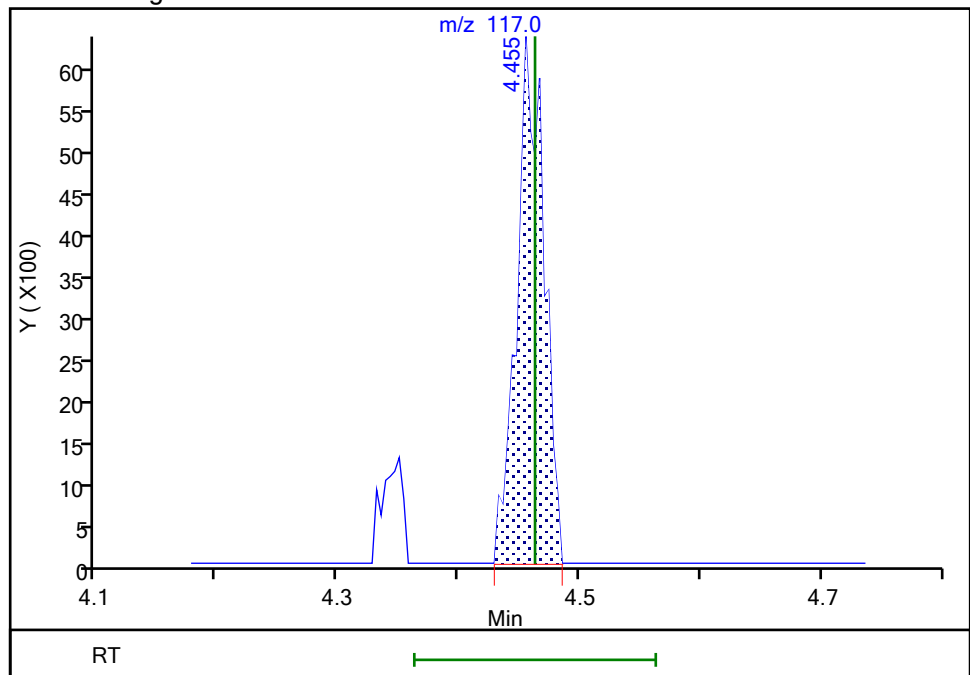
RT: 4.47
Area: 4416
Amount: 0.383671
Amount Units: ug/l

Processing Integration Results



RT: 4.46
Area: 9895
Amount: 0.811229
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:54:27 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

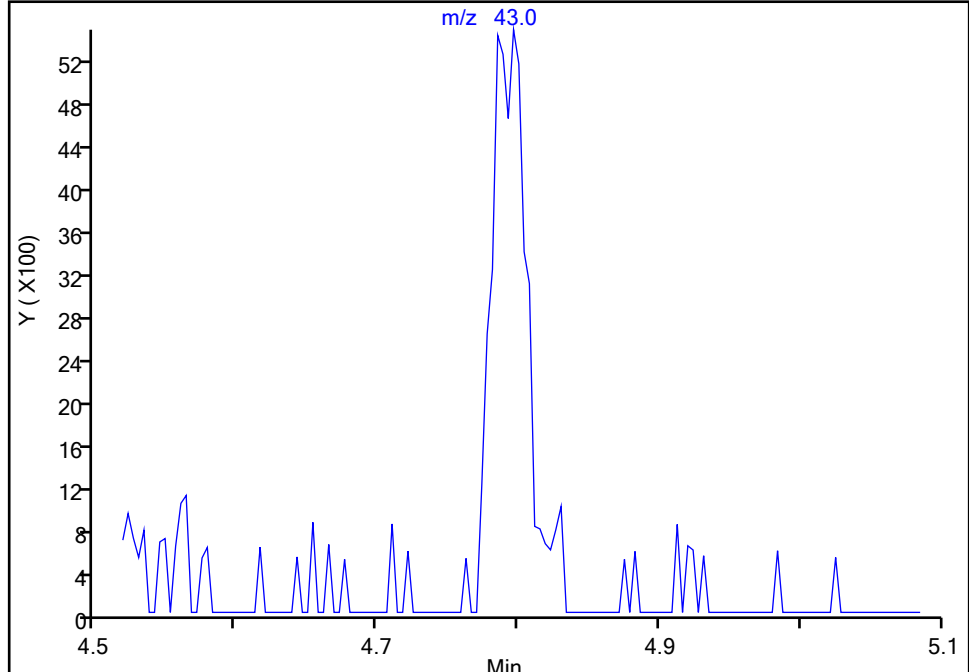
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

63 n-Heptane, CAS: 142-82-5

Signal: 1

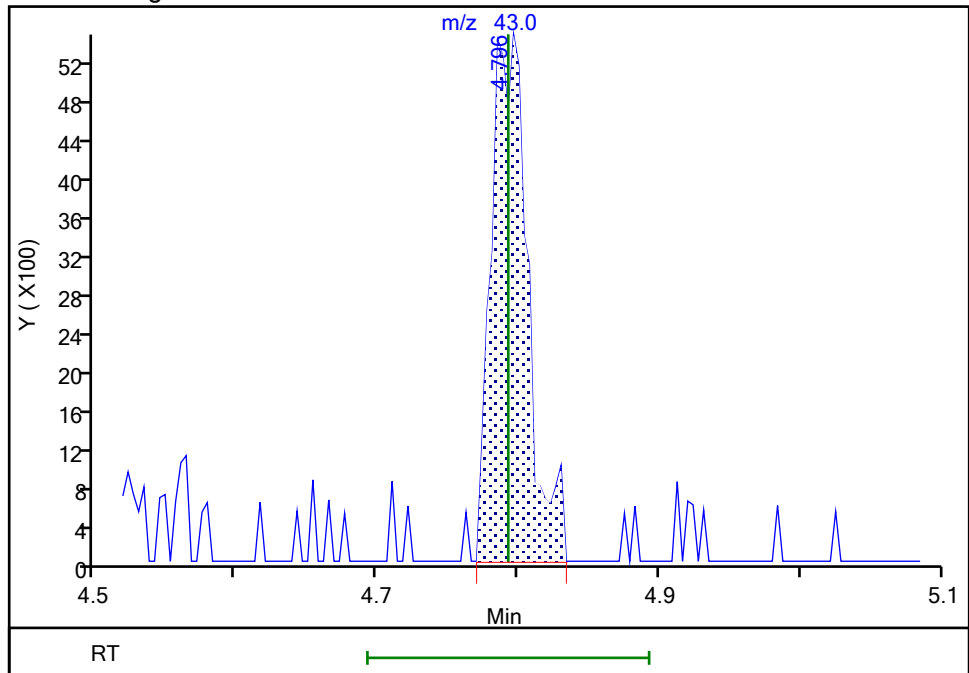
Not Detected
Expected RT: 4.79

Processing Integration Results



RT: 4.80
Area: 9946
Amount: 0.783553
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:54:42 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

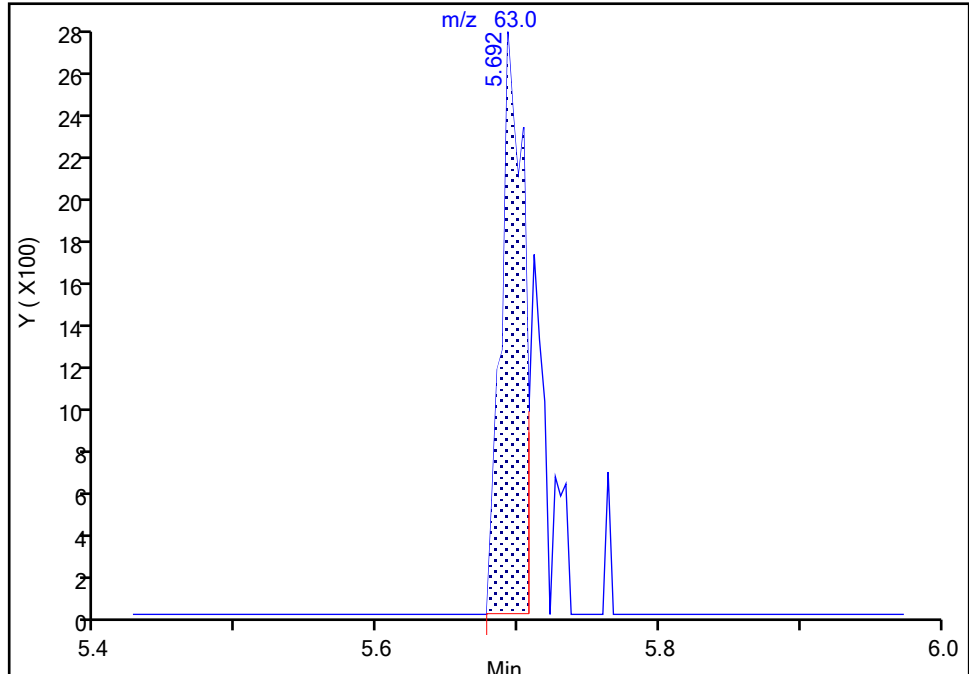
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

74 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

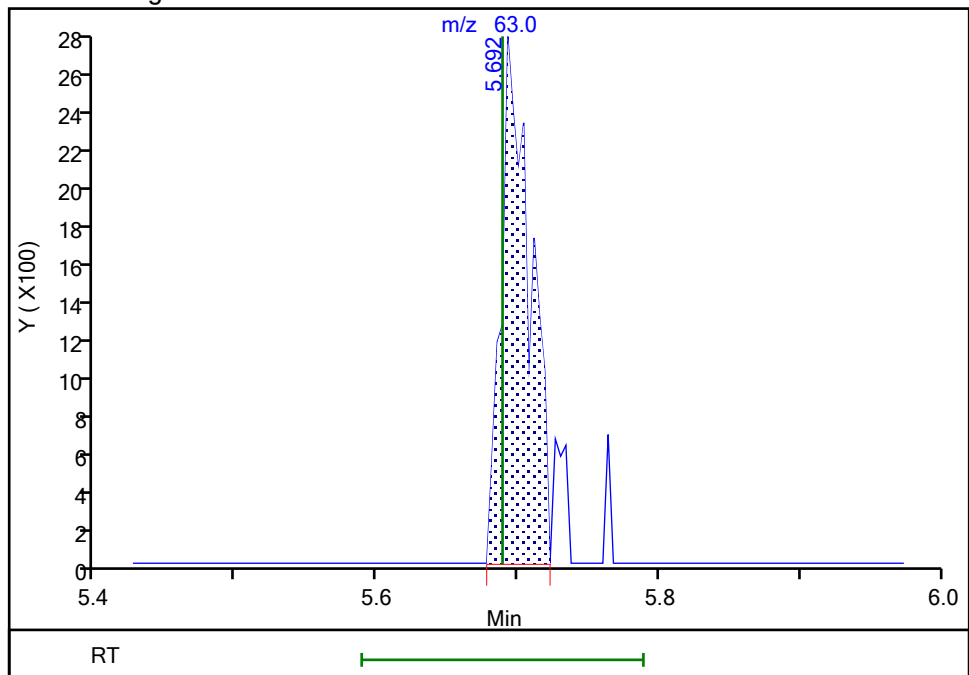
RT: 5.69
Area: 3052
Amount: 0.877614
Amount Units: ug/l

Processing Integration Results



RT: 5.69
Area: 3965
Amount: 1.032716
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:55:00 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

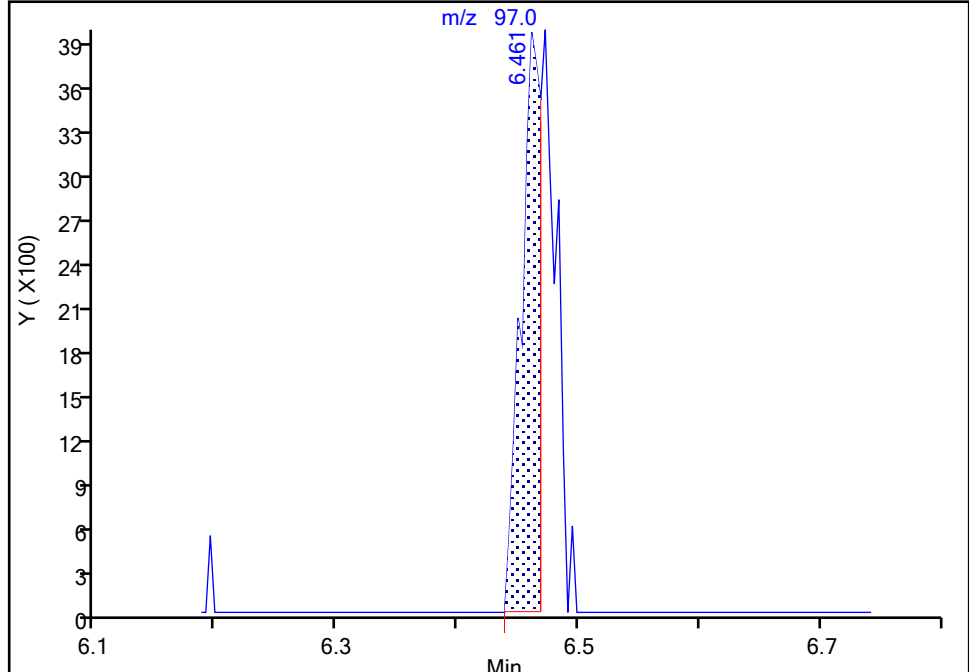
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

80 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

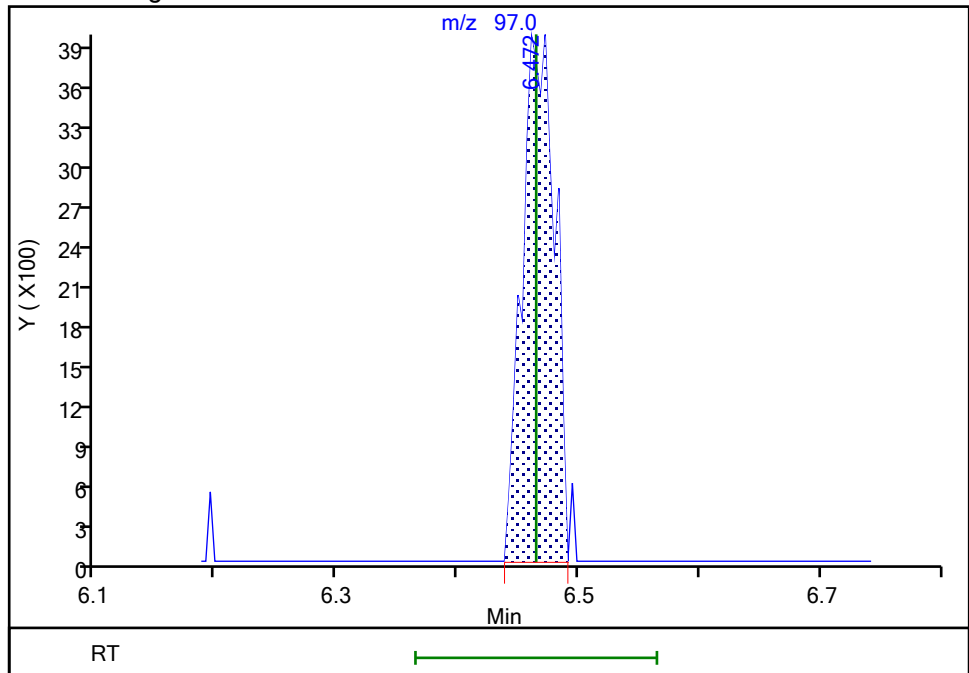
RT: 6.46
Area: 4449
Amount: 0.526765
Amount Units: ug/l

Processing Integration Results



RT: 6.47
Area: 7404
Amount: 0.848037
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:55:17 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

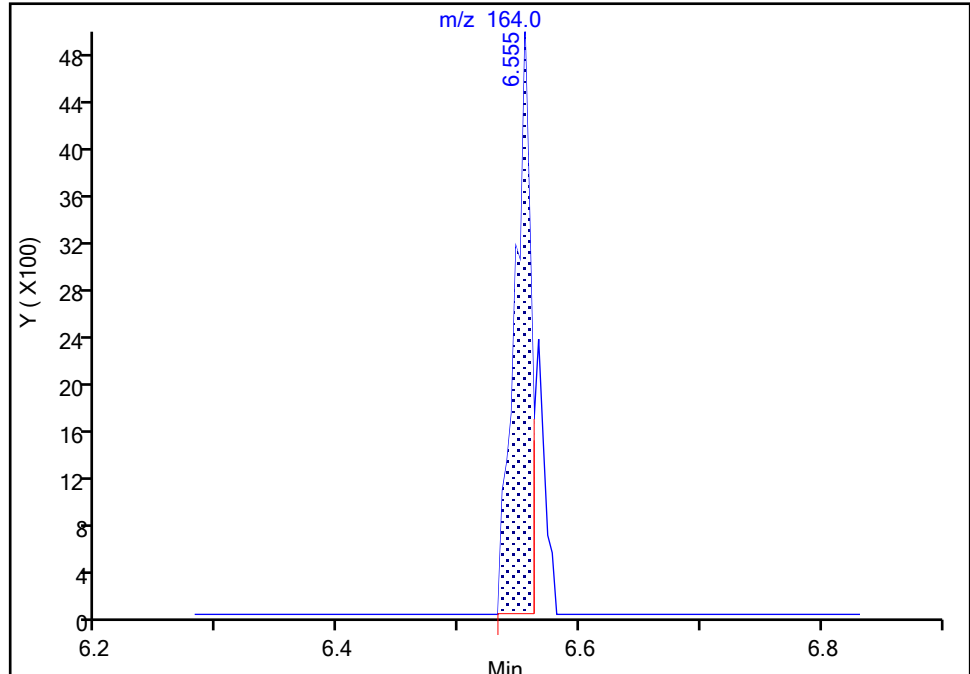
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

81 Tetrachloroethene, CAS: 127-18-4

Signal: 1

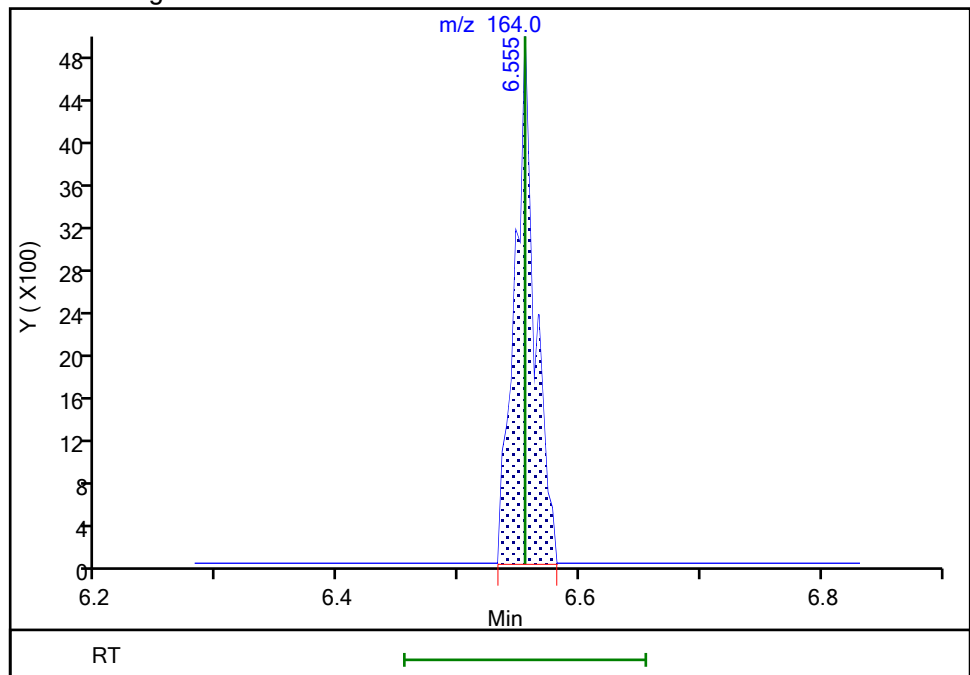
RT: 6.55
Area: 4530
Amount: 0.676774
Amount Units: ug/l

Processing Integration Results



RT: 6.55
Area: 5656
Amount: 0.834815
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:55:27 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D

Injection Date: 30-Jul-2023 18:58:30

Instrument ID: VMS_R1

Lims ID: ic

Client ID:

Operator ID: bustillose

ALS Bottle#:

10

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

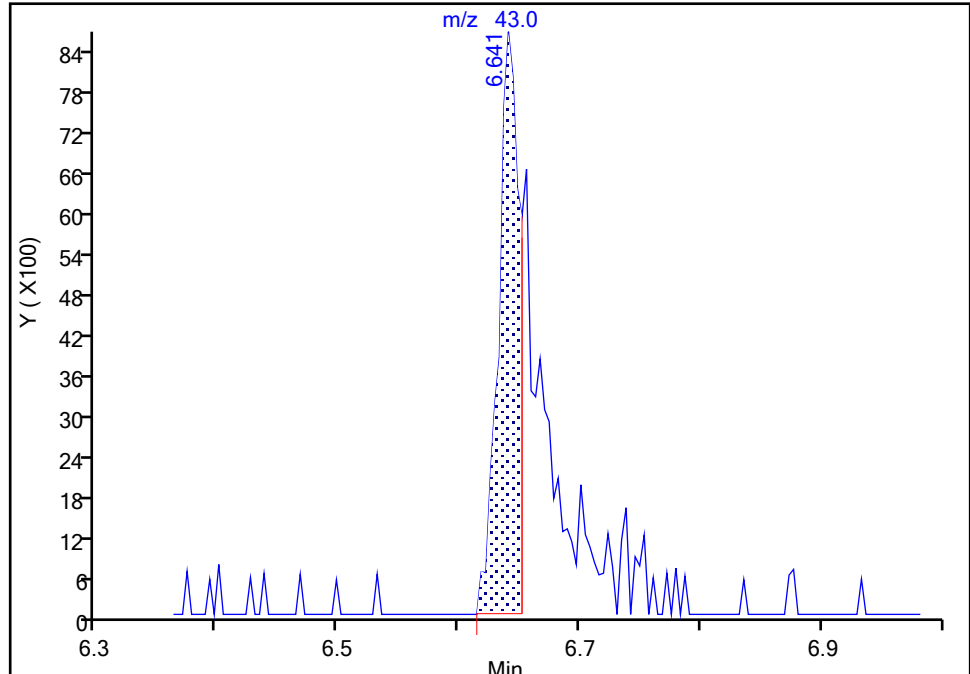
MS SCAN

83 2-Hexanone, CAS: 591-78-6

Signal: 1

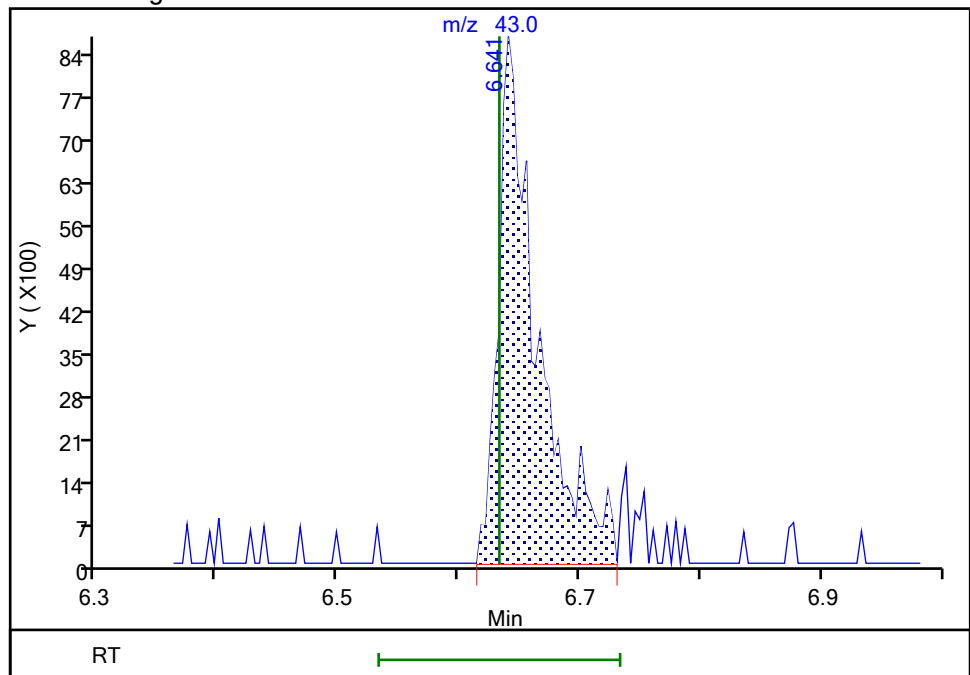
RT: 6.64
Area: 10455
Amount: 3.646466
Amount Units: ug/l

Processing Integration Results



RT: 6.64
Area: 19174
Amount: 4.326194
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:55:41 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D

Injection Date: 30-Jul-2023 18:58:30

Instrument ID: VMS_R1

Lims ID: ic

Client ID:

Operator ID: bustillose

ALS Bottle#:

10

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

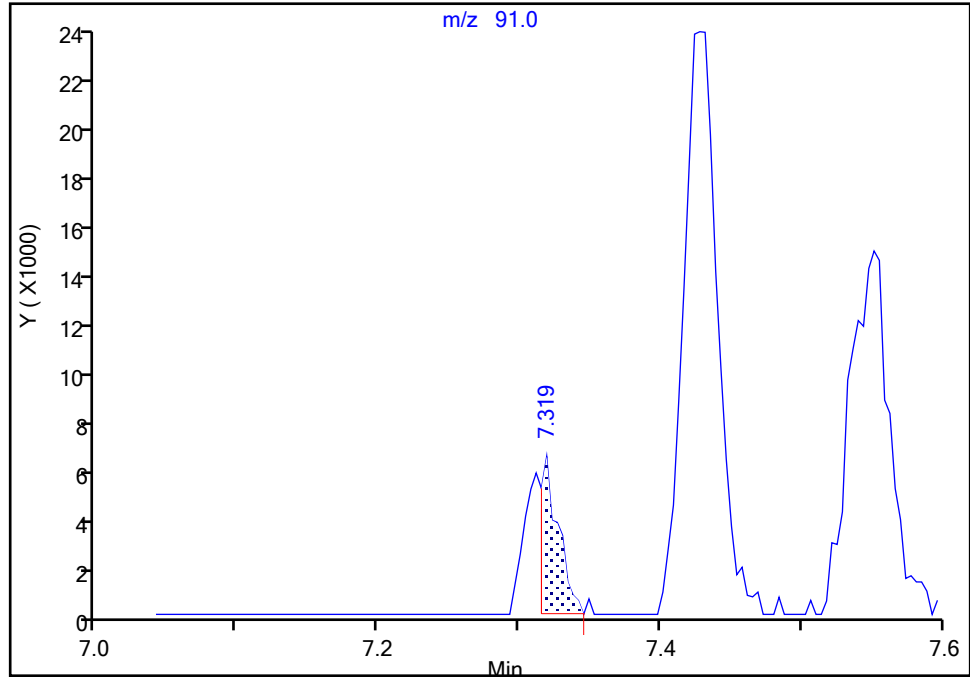
MS SCAN

87 1-Chlorohexane, CAS: 544-10-5

Signal: 1

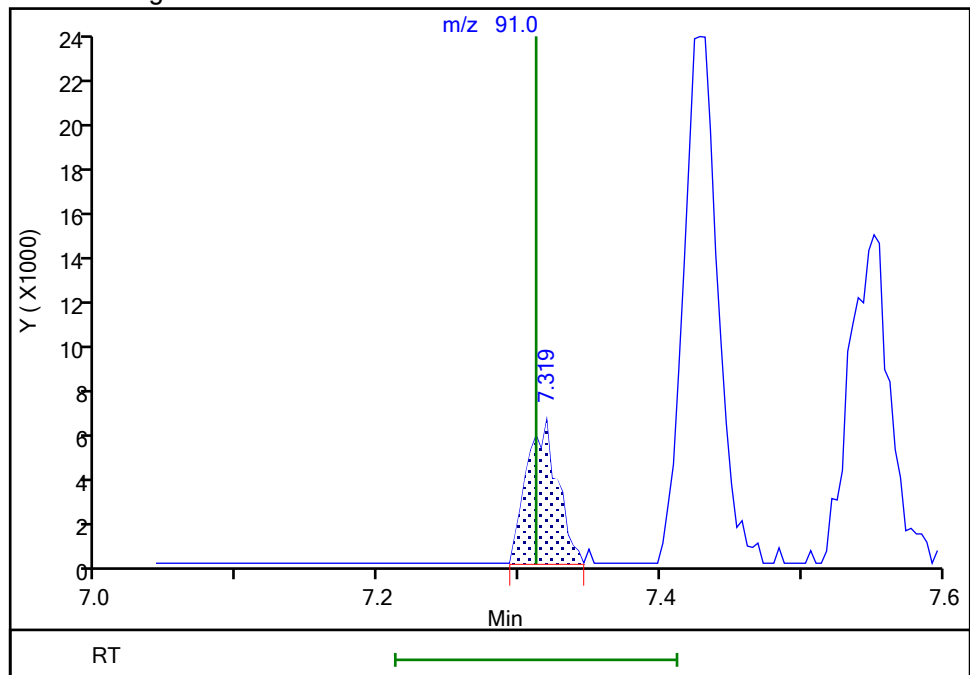
RT: 7.32
Area: 5477
Amount: 0.427258
Amount Units: ug/l

Processing Integration Results



RT: 7.32
Area: 9538
Amount: 0.736057
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:55:51 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

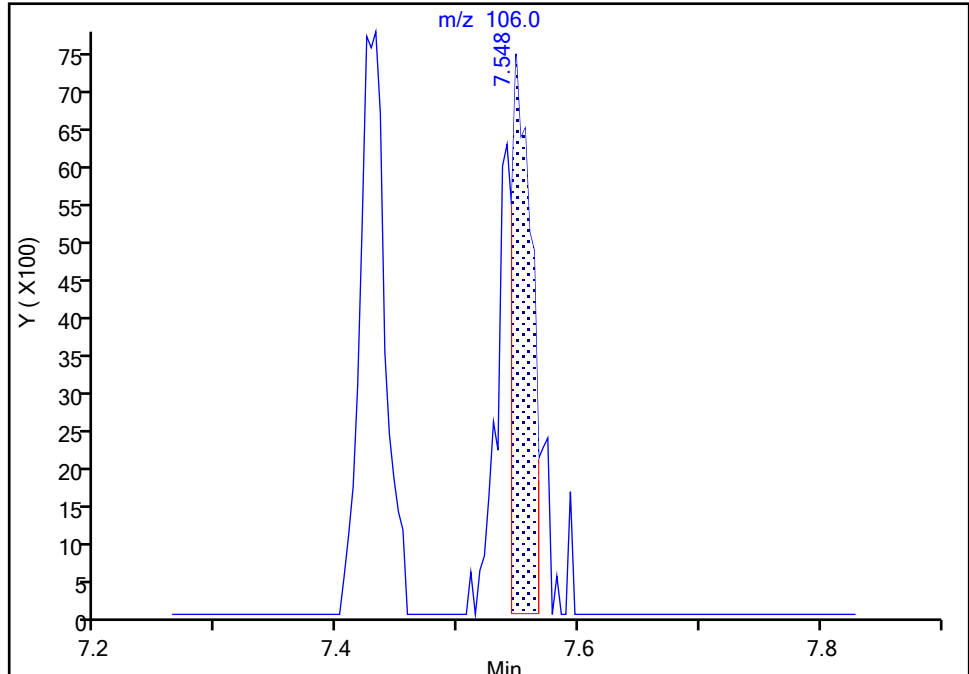
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

91 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

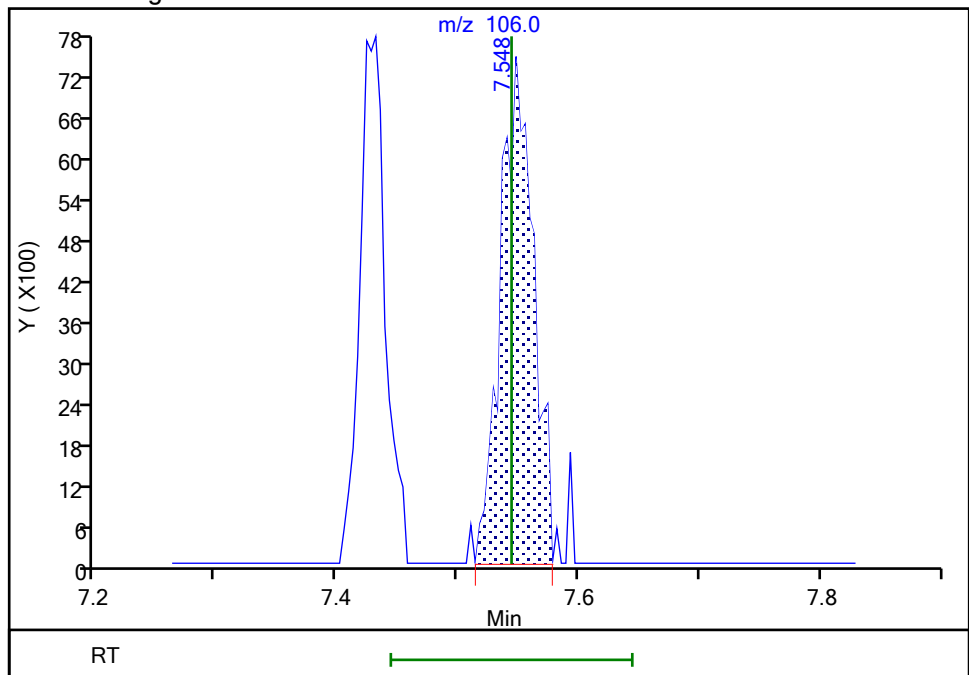
RT: 7.55
Area: 8471
Amount: 0.667369
Amount Units: ug/l

Processing Integration Results



RT: 7.55
Area: 13969
Amount: 0.808853
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:56:04 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

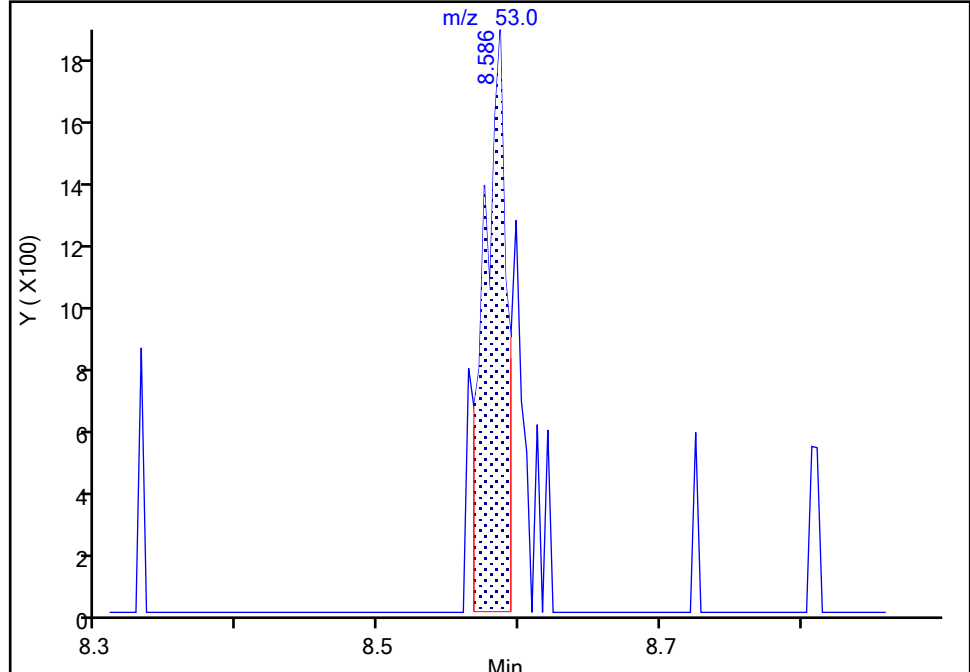
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

100 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

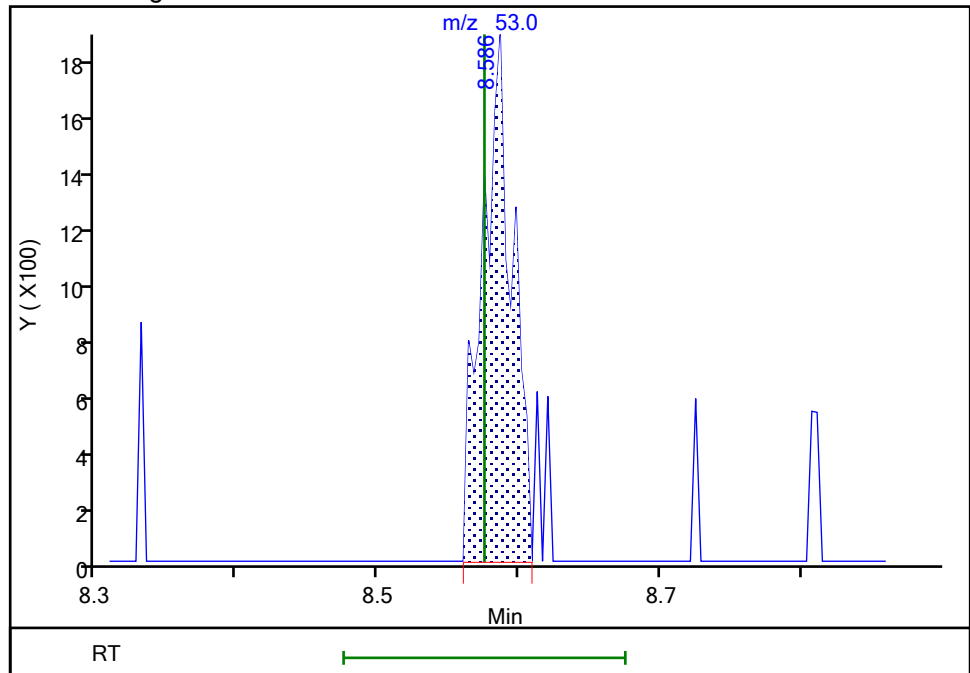
RT: 8.59
Area: 2081
Amount: 0.997898
Amount Units: ug/l

Processing Integration Results



RT: 8.59
Area: 2807
Amount: 0.788650
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:56:27 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

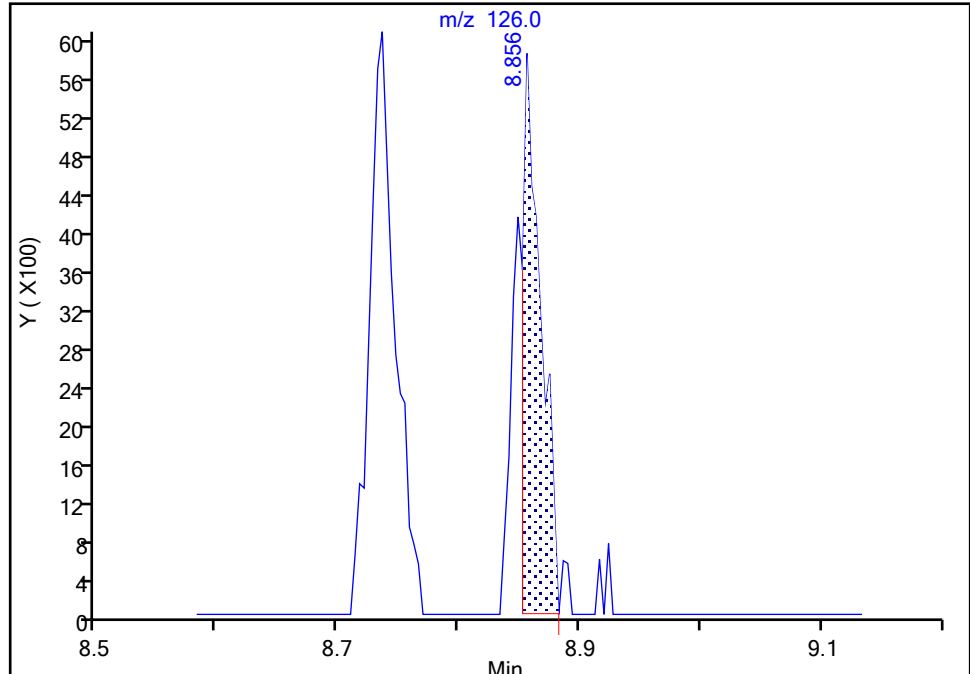
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

105 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

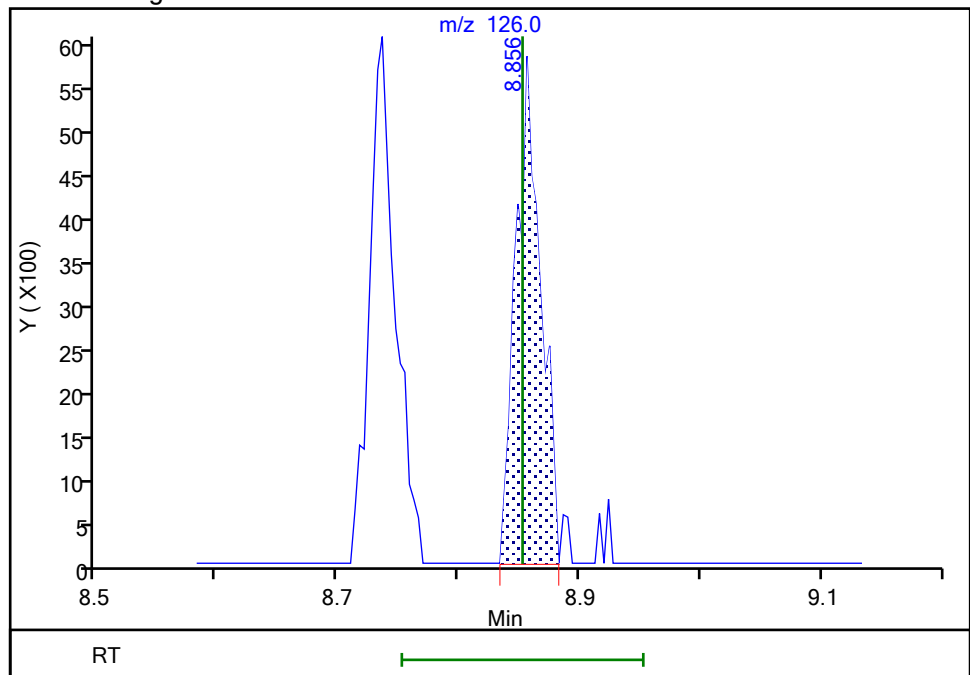
RT: 8.86
Area: 5997
Amount: 0.672601
Amount Units: ug/l

Processing Integration Results



RT: 8.86
Area: 8209
Amount: 0.795481
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:56:47 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

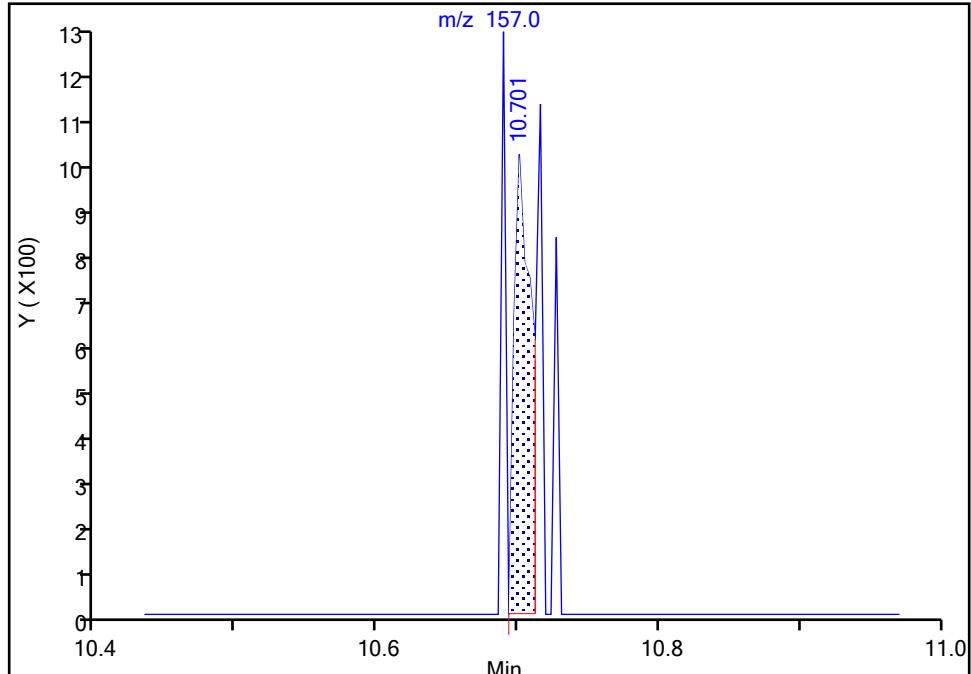
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

116 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

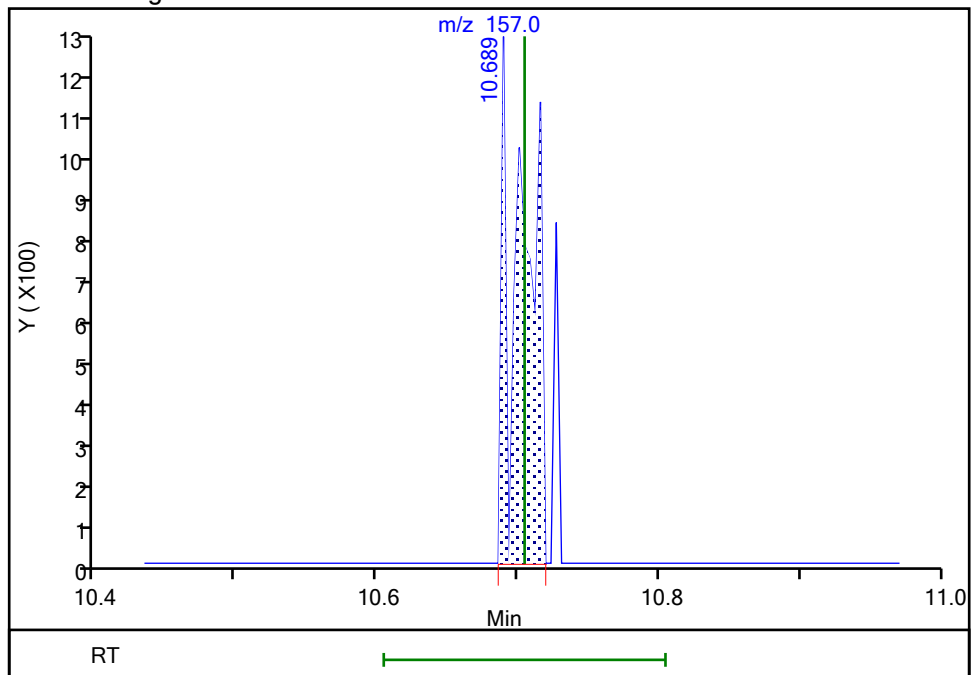
RT: 10.70
Area: 797
Amount: 0.727812
Amount Units: ug/l

Processing Integration Results



RT: 10.69
Area: 1304
Amount: 0.704622
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:57:04 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

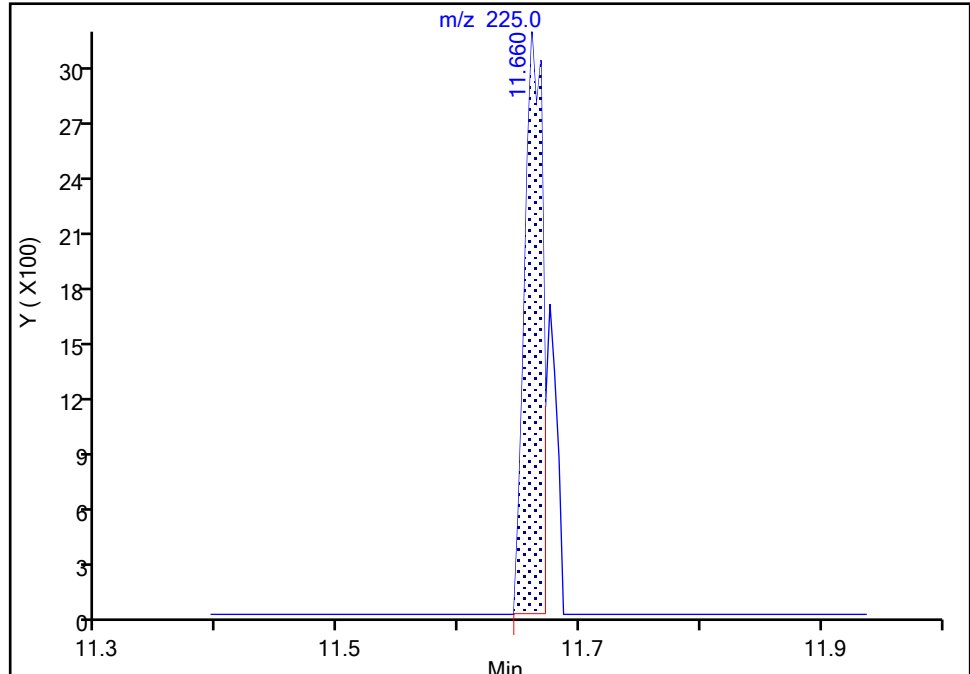
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

119 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

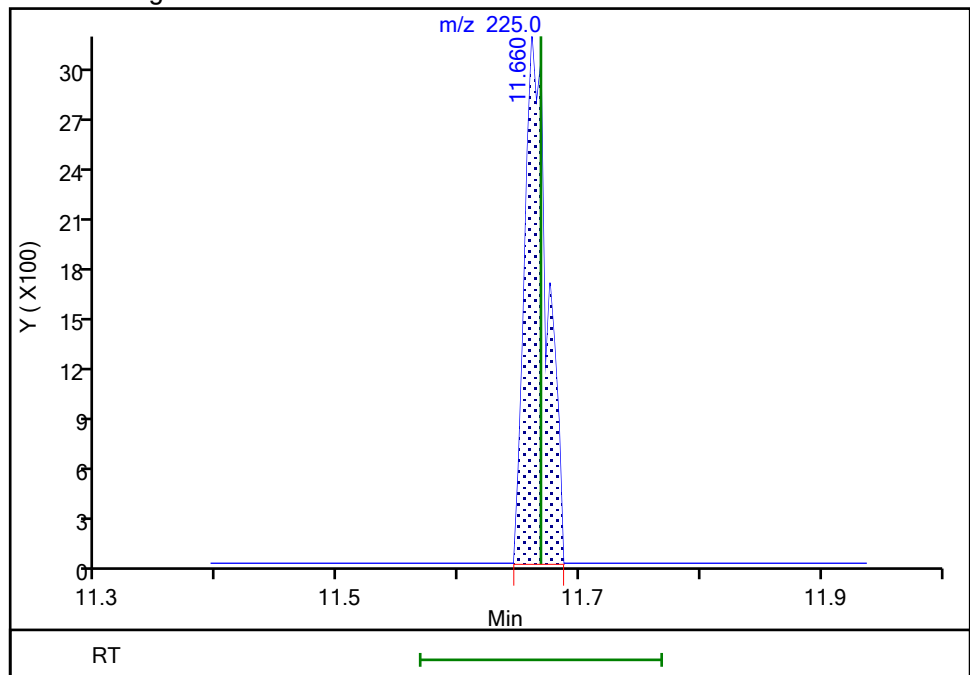
RT: 11.66
Area: 3223
Amount: 0.792179
Amount Units: ug/l

Processing Integration Results



RT: 11.66
Area: 4083
Amount: 0.977723
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:57:14 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

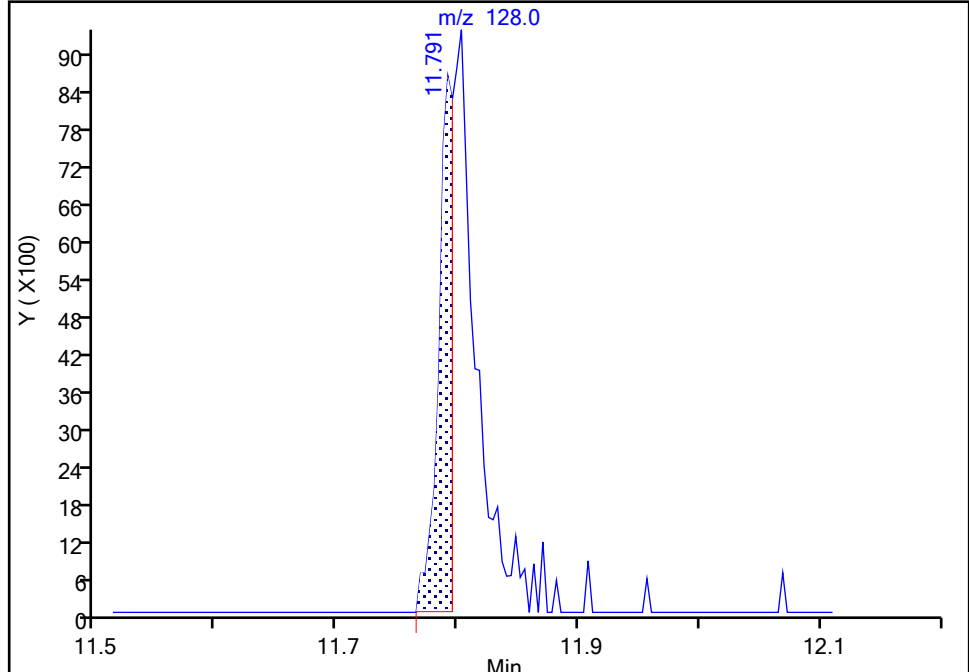
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

120 Naphthalene, CAS: 91-20-3

Signal: 1

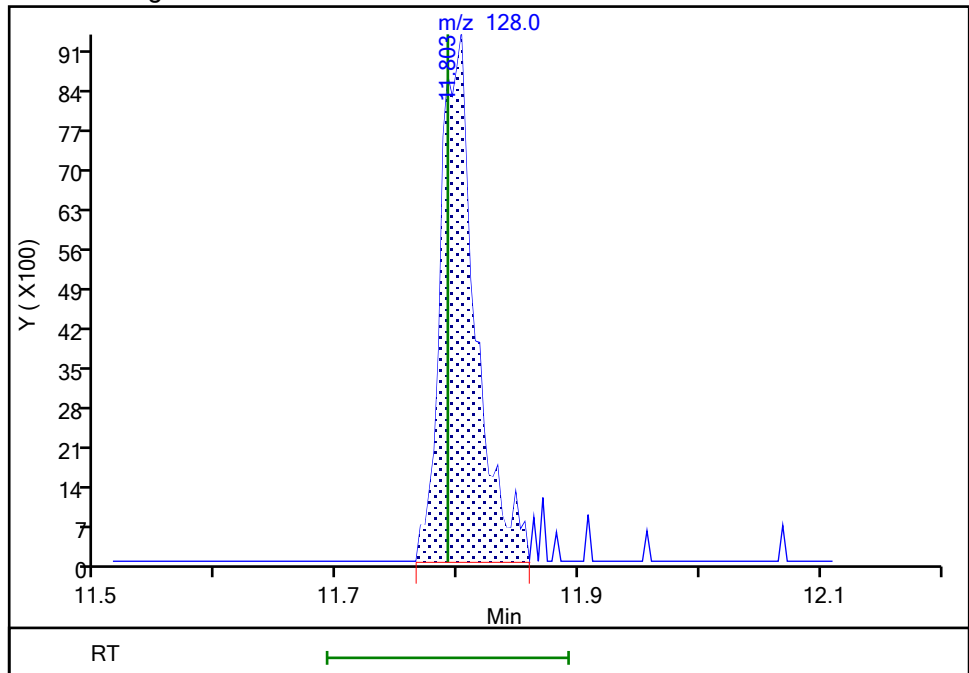
RT: 11.79
Area: 7334
Amount: 1.362161
Amount Units: ug/l

Processing Integration Results



RT: 11.80
Area: 18457
Amount: 0.944330
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:57:23 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

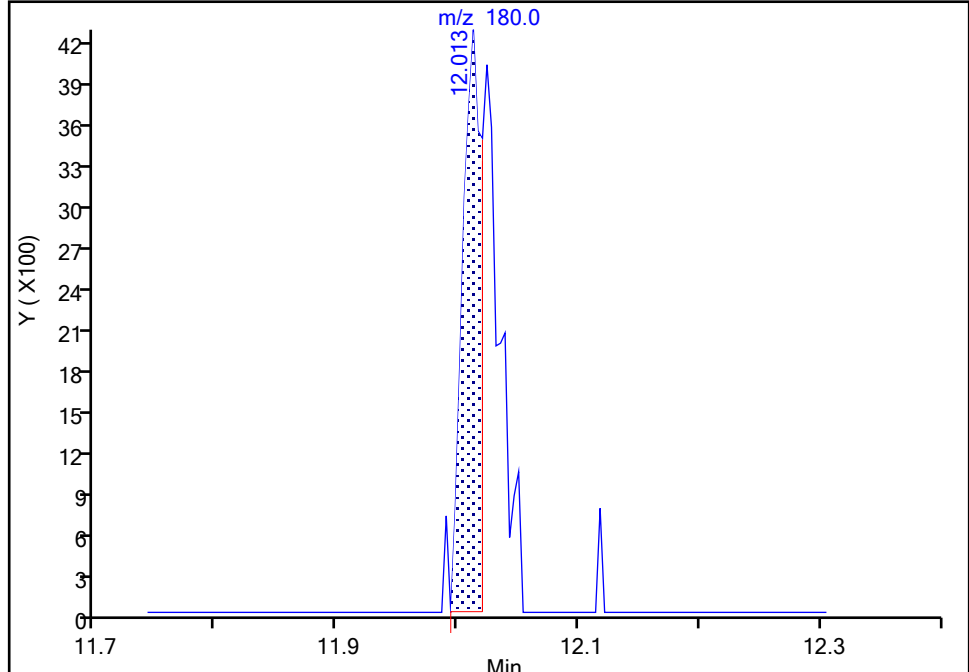
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

121 1,2,3-Trichlorobenzene, CAS: 87-61-6
Signal: 1

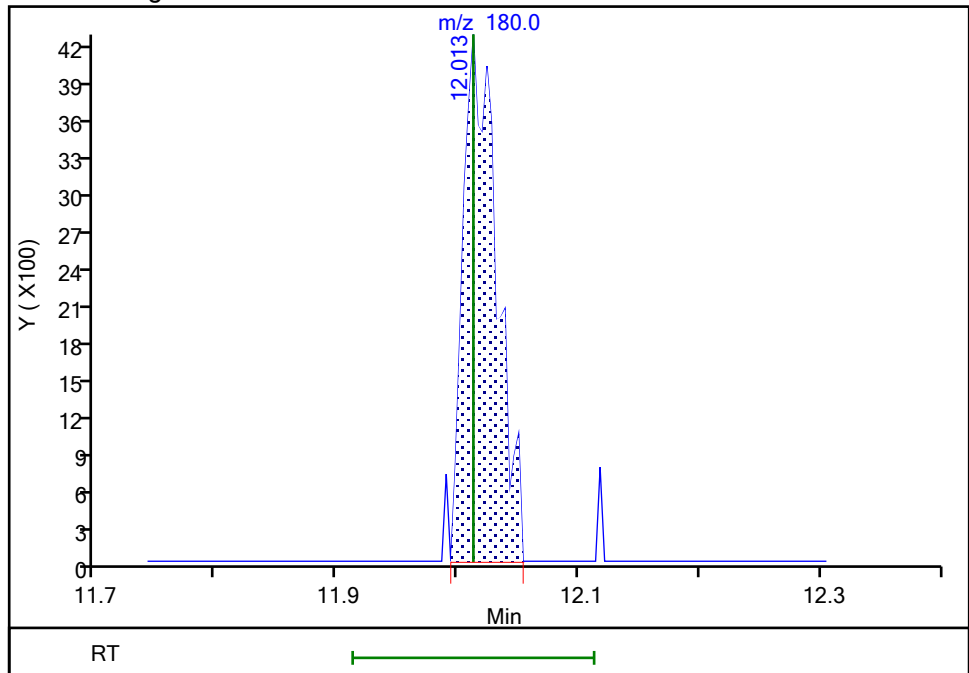
RT: 12.01
Area: 4639
Amount: 0.682825
Amount Units: ug/l

Processing Integration Results



RT: 12.01
Area: 8231
Amount: -2.711739
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:57:31 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 30-Jul-2023 19:19:30 ALS Bottle#: 11 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 0.5
 Misc. Info.: 280-0124001-021
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:51:08 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:59:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2022878	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	492571	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	731522	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	540798	50.0	50.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.579	4.579	0.000	0	627064	50.0	49.4	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2158795	50.0	50.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.418	-0.004	83	732641	50.0	51.7	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	97	3854	0.5000	0.5268	
10 Chloromethane	50	1.715	1.715	0.000	96	8969	0.5000	0.3641	
11 Vinyl chloride	62	1.805	1.805	0.000	89	6399	0.5000	0.2595	
13 Bromomethane	94	2.071	2.071	0.000	88	4545	0.5000	0.5619	
14 Chloroethane	64	2.154	2.157	-0.003	1	3797	0.5000	0.4763	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	95	9136	0.5000	0.4869	
16 Trichlorofluoromethane	101	2.349	2.345	0.004	98	6718	0.5000	0.4957	
18 Ethyl ether	59	2.551	2.547	0.004	74	2801	0.5000	0.3301	
20 Acrolein	56	2.656	2.652	0.004	92	5625	4.94	3.95	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.720	2.723	-0.003	64	2551	0.5000	0.4548	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	90	3036	0.5000	0.3889	
23 Acetone	43	2.750	2.746	0.004	99	46234	2.00	2.99	
25 Iodomethane	142	2.843	2.843	0.000	98	6247	0.5000	0.5729	
26 Carbon disulfide	76	2.903	2.903	0.000	100	18645	0.5000	0.6033	
28 Methyl acetate	43	2.971	2.967	0.004	96	5500	1.00	0.6646	
29 3-Chloro-1-propene	41	2.986	2.986	0.000	89	11339	0.5000	0.5867	
30 Methylene Chloride	84	3.076	3.076	0.000	97	6502	0.5000	0.6154	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	25	2789	5.00	3.08	
32 Acrylonitrile	53	3.237	3.233	0.004	95	15400	5.00	3.79	
33 Methyl tert-butyl ether	73	3.260	3.256	0.004	69	10027	0.5000	0.3907	
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	88	3233	0.5000	0.3476	
35 Hexane	57	3.451	3.454	-0.003	62	2799	0.5000	0.2187	
37 Vinyl acetate	43	3.567	3.559	0.008	96	14912	1.00	1.68	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	84	5618	0.5000	0.2882	
43 2-Butanone (MEK)	43	3.961	3.953	0.008	78	9179	2.00	1.81	M
45 cis-1,2-Dichloroethene	96	3.979	3.975	0.004	82	5017	0.5000	0.4897	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	37	6339	0.5000	0.4604	M
48 sec-Butyl Alcohol	45	4.080	4.065	0.015	15	5446	12.0	18.5	M
50 Chlorobromomethane	128	4.148	4.148	0.000	96	1648	0.5000	0.3825	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	27	1512	1.00	0.4560	
52 Chloroform	83	4.204	4.208	-0.004	45	5783	0.5000	0.3346	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	54	3900	0.5000	0.2880	
54 Cyclohexane	56	4.403	4.403	0.000	89	7315	0.5000	0.4335	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	87	4841	0.5000	0.3539	
56 Carbon tetrachloride	117	4.463	4.463	0.000	91	5454	0.5000	0.4709	
57 Isobutyl alcohol	41	4.485	4.478	0.007	26	2356	12.5	16.2	
58 Benzene	78	4.605	4.601	0.004	90	19345	0.5000	0.4777	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	48	5169	0.5000	0.3727	
63 n-Heptane	43	4.789	4.793	-0.004	35	3861	0.5000	0.3203	
65 Trichloroethene	95	5.093	5.089	0.004	91	3450	0.5000	0.3630	
66 2-Pentanone	43	5.205	5.194	0.011	19	7735	1.60	2.64	M
67 Methylcyclohexane	55	5.276	5.280	-0.004	81	5497	0.5000	0.4520	
68 1,2-Dichloropropane	63	5.288	5.291	-0.003	42	5157	0.5000	0.4568	M
70 1,4-Dioxane	88	5.333	5.344	-0.011	6	648	10.0	15.5	M
71 Dibromomethane	93	5.363	5.362	0.001	27	1599	0.5000	0.2634	
72 Dichlorobromomethane	83	5.486	5.486	0.000	92	7191	0.5000	0.5416	
74 2-Chloroethyl vinyl ether	63	5.685	5.689	-0.004	1	624	0.5000	0.5721	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	88	6520	0.5000	0.4023	
76 4-Methyl-2-pentanone (MIBK)	43	5.936	5.936	0.000	97	13741	2.00	2.72	
77 Toluene	91	6.112	6.112	0.000	94	20506	0.5000	0.4891	
78 trans-1,3-Dichloropropene	75	6.300	6.296	0.004	42	7193	0.5000	0.4853	M
79 Ethyl methacrylate	69	6.326	6.322	0.004	70	2803	0.5000	0.7551	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	87	4331	0.5000	0.5224	
81 Tetrachloroethene	164	6.558	6.555	0.003	88	3425	0.5000	0.5289	
82 1,3-Dichloropropane	76	6.615	6.611	0.004	88	4688	0.5000	0.3053	
83 2-Hexanone	43	6.641	6.633	0.008	17	3143	2.00	2.30	
84 Chlorodibromomethane	129	6.802	6.802	0.000	84	4720	0.5000	0.5156	
86 Ethylene Dibromide	107	6.922	6.918	0.004	1	2597	0.5000	0.3115	
87 1-Chlorohexane	91	7.316	7.312	0.004	33	6416	0.4000	0.5180	
88 Chlorobenzene	112	7.349	7.349	0.000	82	13122	0.5000	0.5092	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.420	0.001	83	3953	0.5000	0.4543	
90 Ethylbenzene	106	7.428	7.424	0.004	98	5610	0.5000	0.4123	
91 m-Xylene & p-Xylene	106	7.548	7.544	0.004	0	6083	0.5000	0.3685	
92 o-Xylene	106	7.904	7.904	0.000	94	6645	0.5000	0.4160	
93 Styrene	104	7.923	7.919	0.004	63	8618	0.5000	0.3254	
94 Bromoform	173	8.099	8.099	0.000	0	2213	0.5000	0.3736	
95 Isopropylbenzene	105	8.245	8.241	0.004	95	14725	0.5000	0.3967	
97 Cyclohexanone	55	8.343	8.339	0.004	87	5037	15.0	20.9	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.534	-0.004	85	4765	0.5000	0.4373	
99 Bromobenzene	156	8.564	8.560	0.004	94	3805	0.5000	0.4094	
100 trans-1,4-Dichloro-2-butene	53	8.586	8.575	0.011	1	571	0.5000	0.1732	M
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	4	807	0.5000	0.6415	M
102 N-Propylbenzene	120	8.646	8.643	0.004	99	2885	0.5000	0.2816	
103 2-Chlorotoluene	126	8.740	8.732	0.008	94	4403	0.5000	0.4776	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	94	12321	0.5000	0.3996	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.856	8.852	0.004	96	4245	0.5000	0.4441	
106 tert-Butylbenzene	119	9.119	9.122	-0.003	34	6263	0.5000	0.2488	
107 1,2,4-Trimethylbenzene	105	9.186	9.182	0.004	94	12620	0.5000	0.7016	
108 sec-Butylbenzene	134	9.344	9.340	0.004	93	2605	0.5000	0.3673	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	96	9435	0.5000	0.5362	
111 4-Isopropyltoluene	119	9.494	9.493	0.001	96	10575	0.5000	0.6961	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	52	11465	0.5000	0.6170	
114 n-Butylbenzene	91	9.902	9.898	0.004	94	10788	0.5000	0.7960	
115 1,2-Dichlorobenzene	146	9.925	9.921	0.004	94	8220	0.5000	0.4978	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	1	131	0.5000	0.0764	
118 1,2,4-Trichlorobenzene	180	11.537	11.525	0.012	80	2873	0.5000	0.3502	
119 Hexachlorobutadiene	225	11.668	11.668	0.000	1	2319	0.5000	0.5996	M
120 Naphthalene	128	11.806	11.791	0.015	1	9350	0.5000	0.6048	M
121 1,2,3-Trichlorobenzene	180	12.016	12.013	0.003	1	1596	0.5000	-4.06	
S 143 1,3-Dichloropropene, Total	1				0		1.00	0.8876	
S 142 Trihalomethanes, Total	1				0		2.00	1.77	
S 141 Xylenes, Total	106				0		1.00	0.7845	
S 140 1,2-Dichloroethene, Total	1				0		1.00	0.8373	
S 139 Total BTEX	1				0			2.16	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

Cal Dil Std_00214

Amount Added: 5.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Operator ID: bustillose

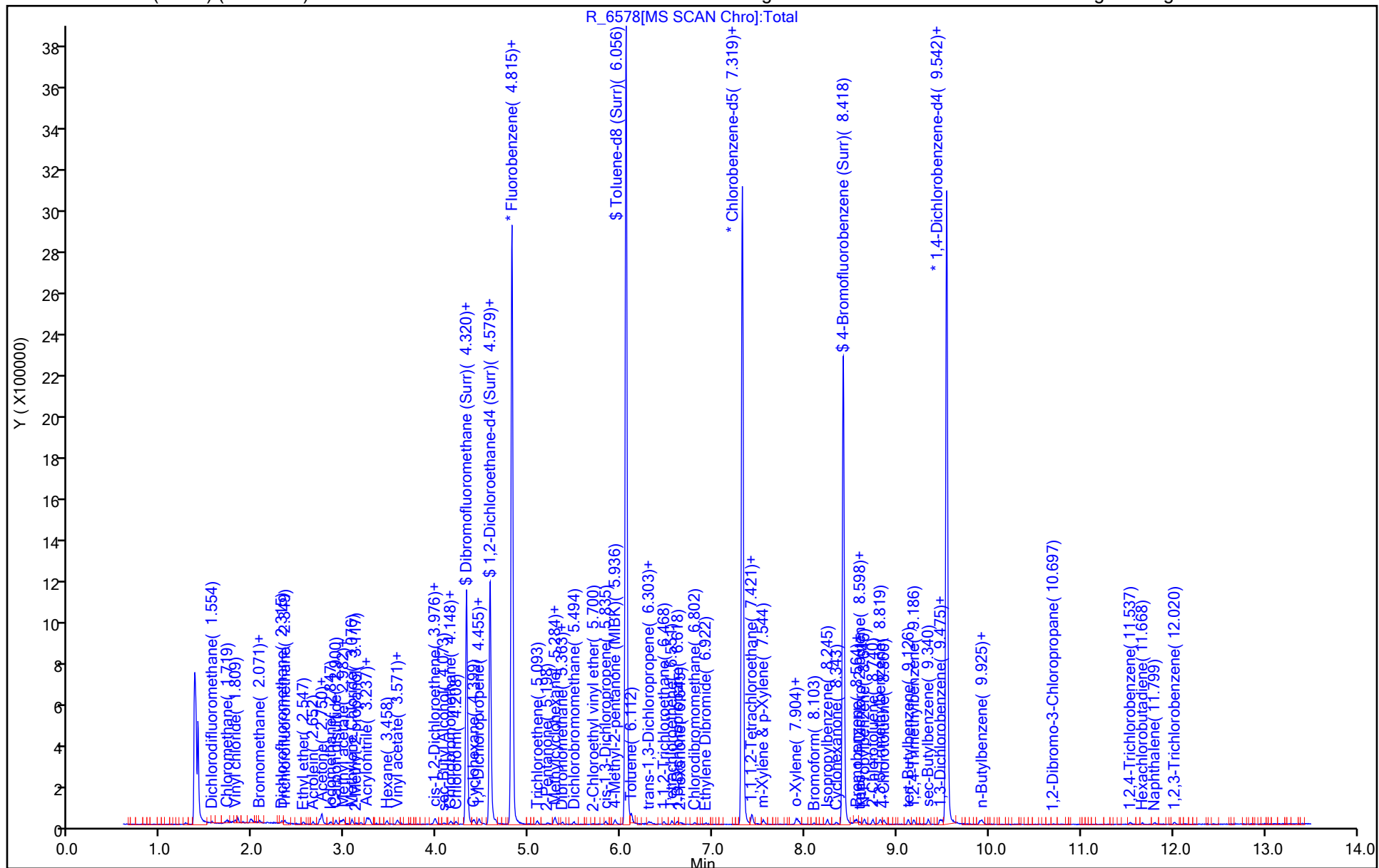
Worklist Smp#: 21

Client ID:

ALS Bottle#: 11

Limit Group: MSV - 8260B Water and Solid

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

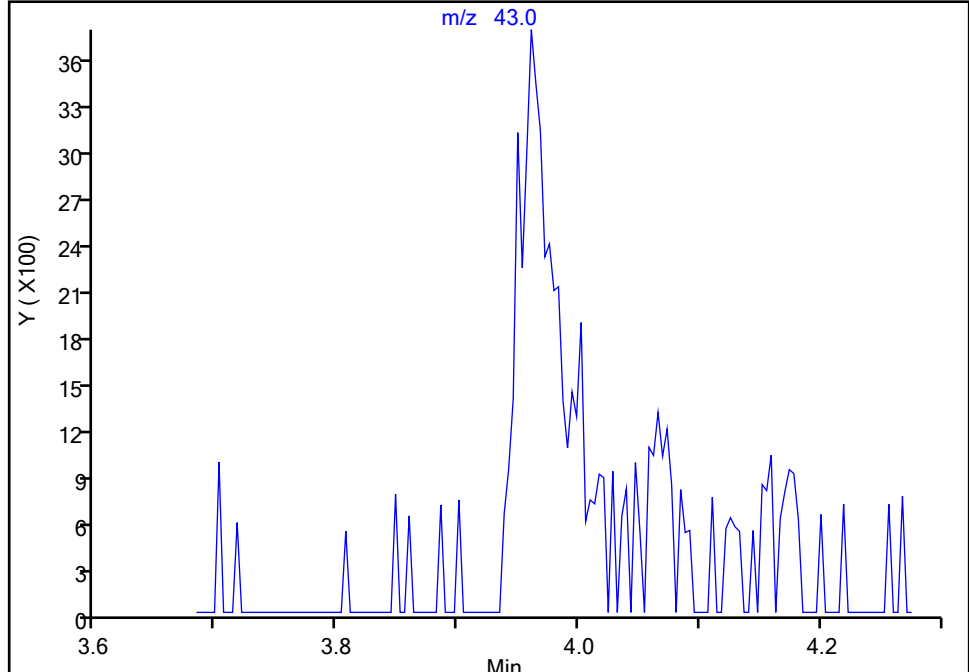
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Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

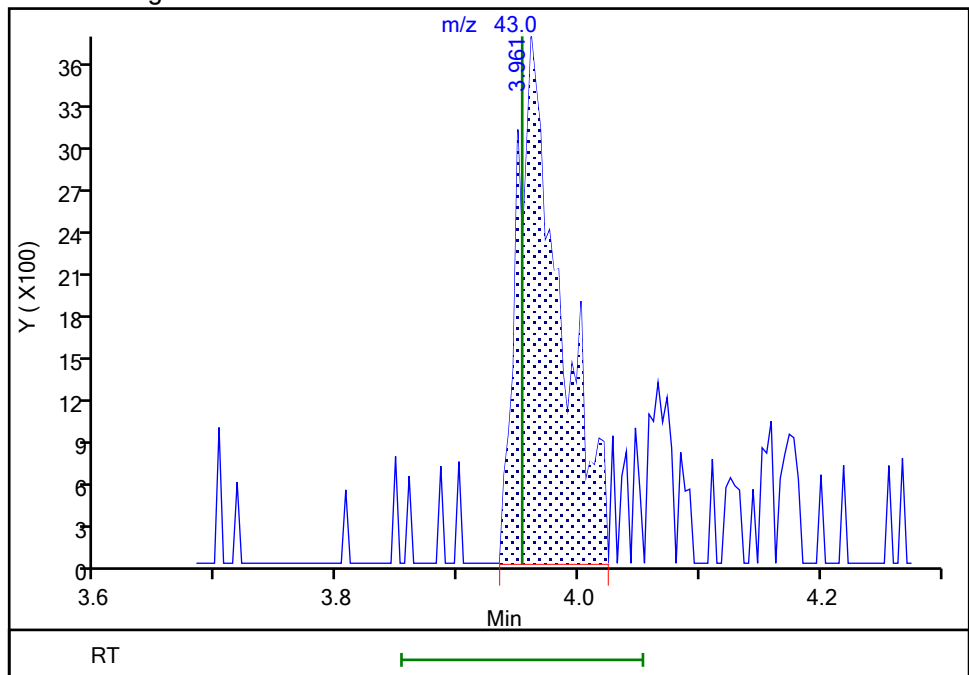
Not Detected
Expected RT: 3.95

Processing Integration Results



Manual Integration Results

RT: 3.96
Area: 9179
Amount: 1.806871
Amount Units: ug/l



Reviewer: AF7X, 31-Jul-2023 05:58:07 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

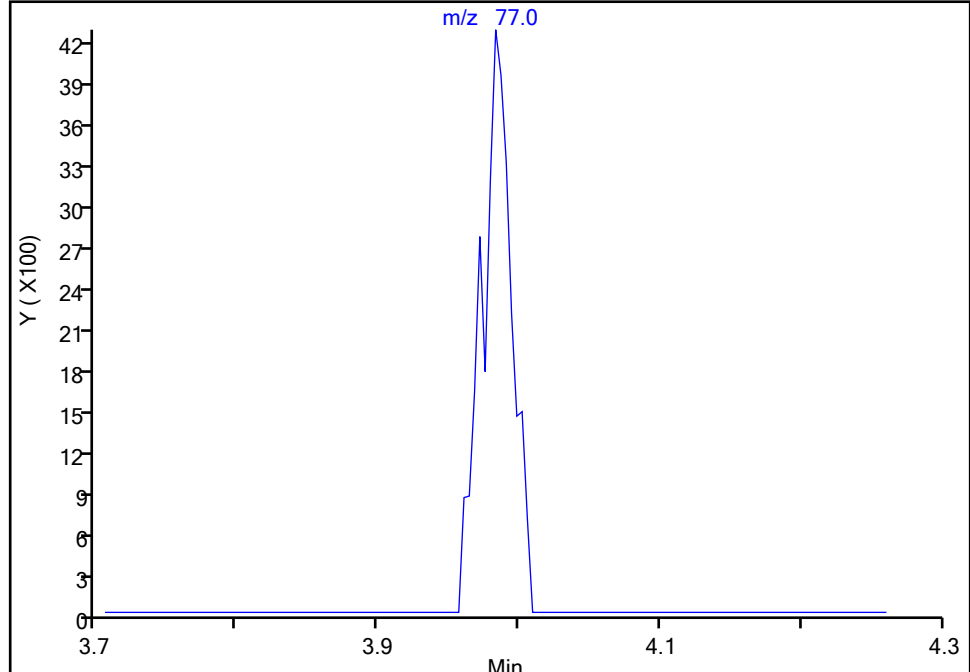
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Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

46 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

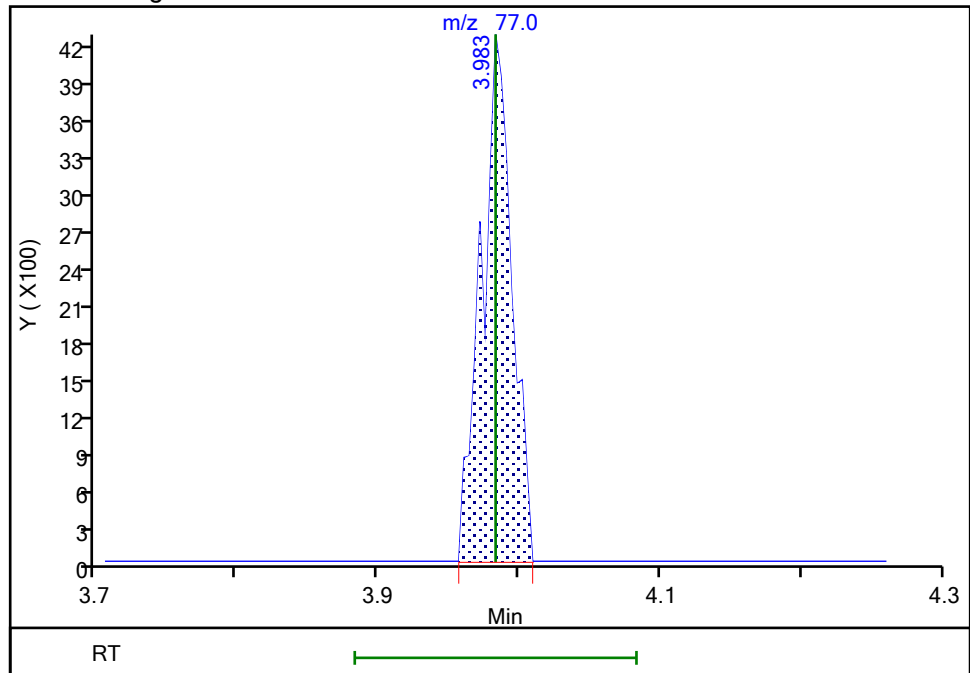
Not Detected
Expected RT: 3.98

Processing Integration Results



RT: 3.98
Area: 6339
Amount: 0.460418
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:15 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

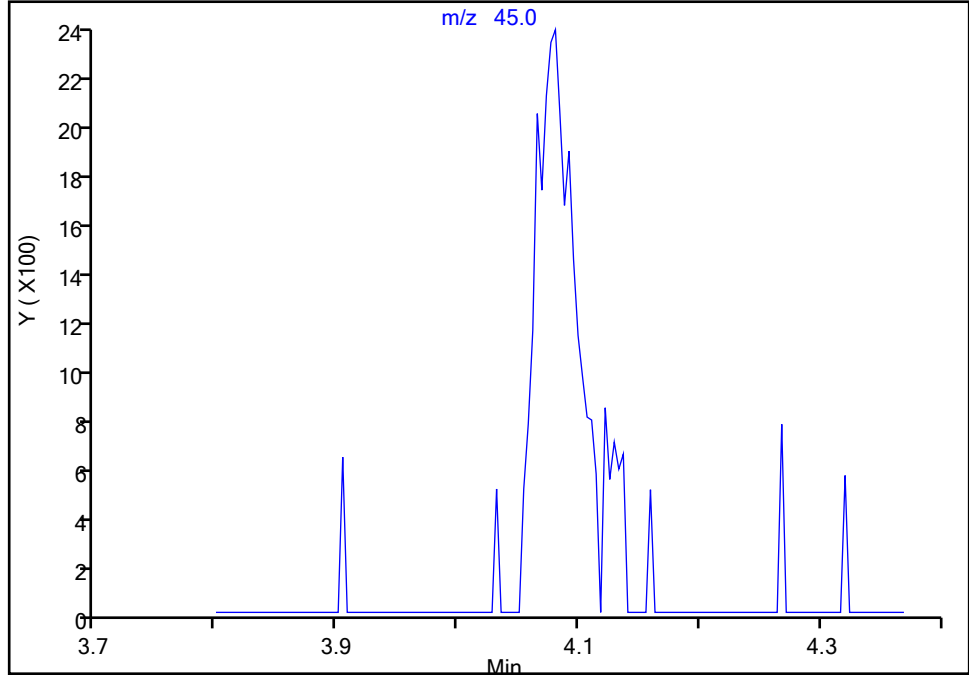
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Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

48 sec-Butyl Alcohol, CAS: 78-92-2

Signal: 1

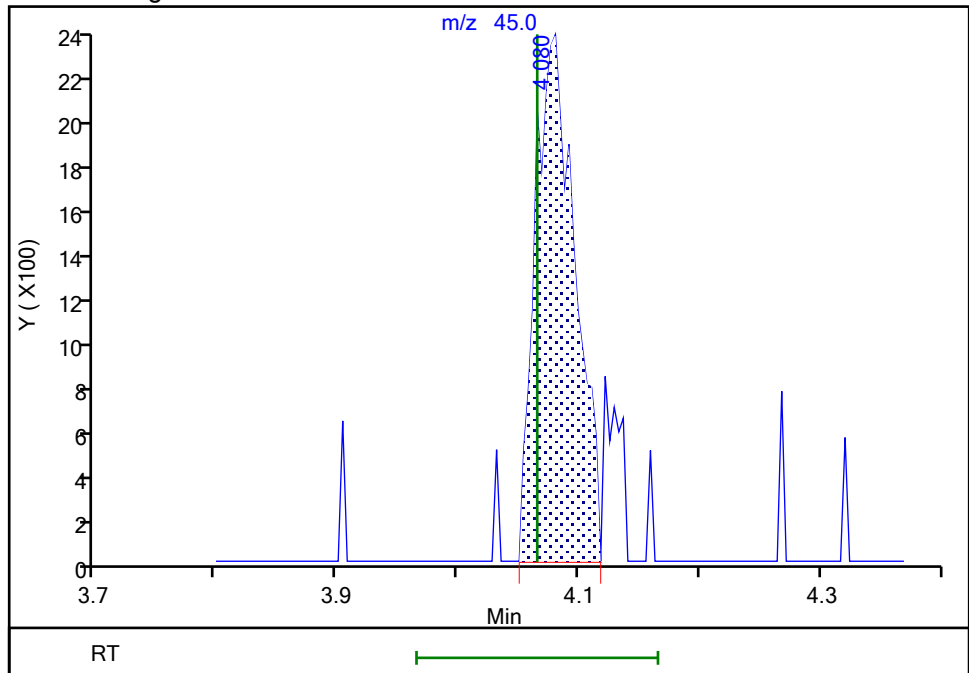
Not Detected
Expected RT: 4.07

Processing Integration Results



RT: 4.08
Area: 5446
Amount: 18.463893
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:21 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

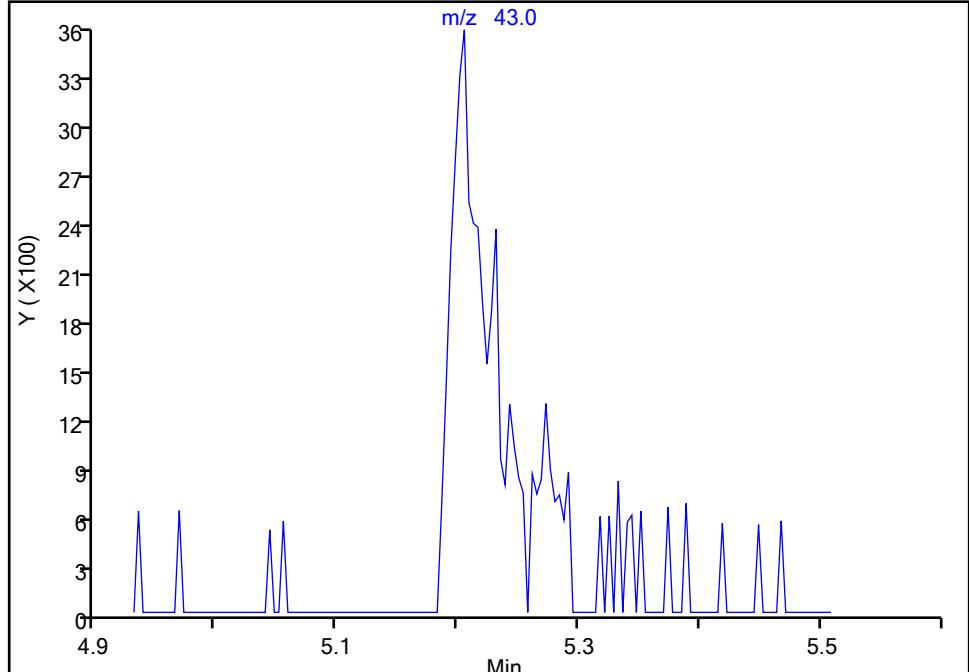
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Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

66 2-Pentanone, CAS: 107-87-9

Signal: 1

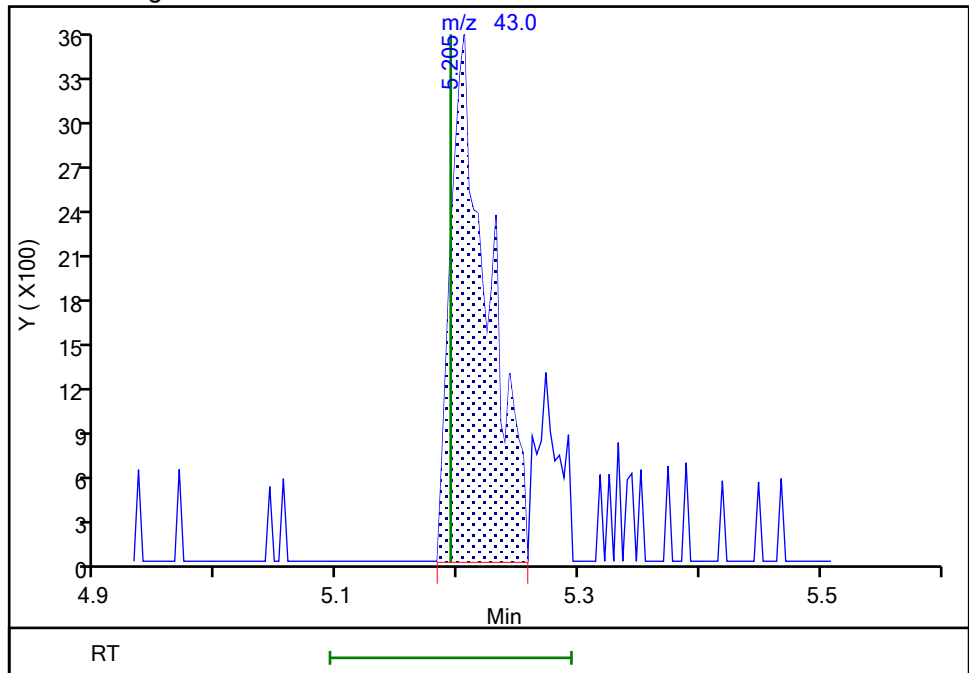
Not Detected
Expected RT: 5.19

Processing Integration Results



RT: 5.21
Area: 7735
Amount: 2.639848
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:31 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

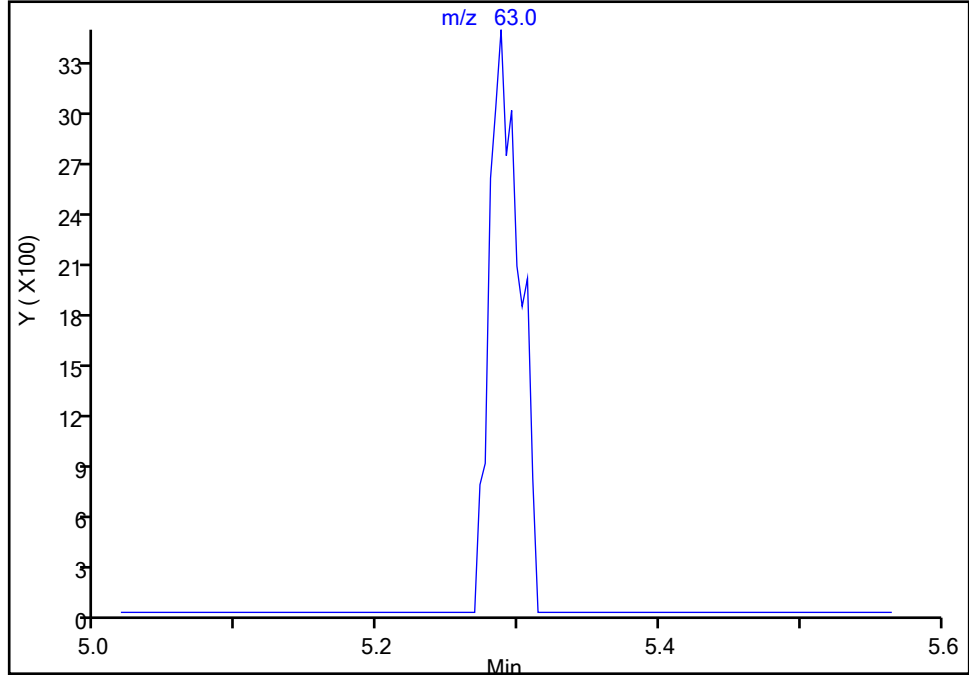
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Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

68 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

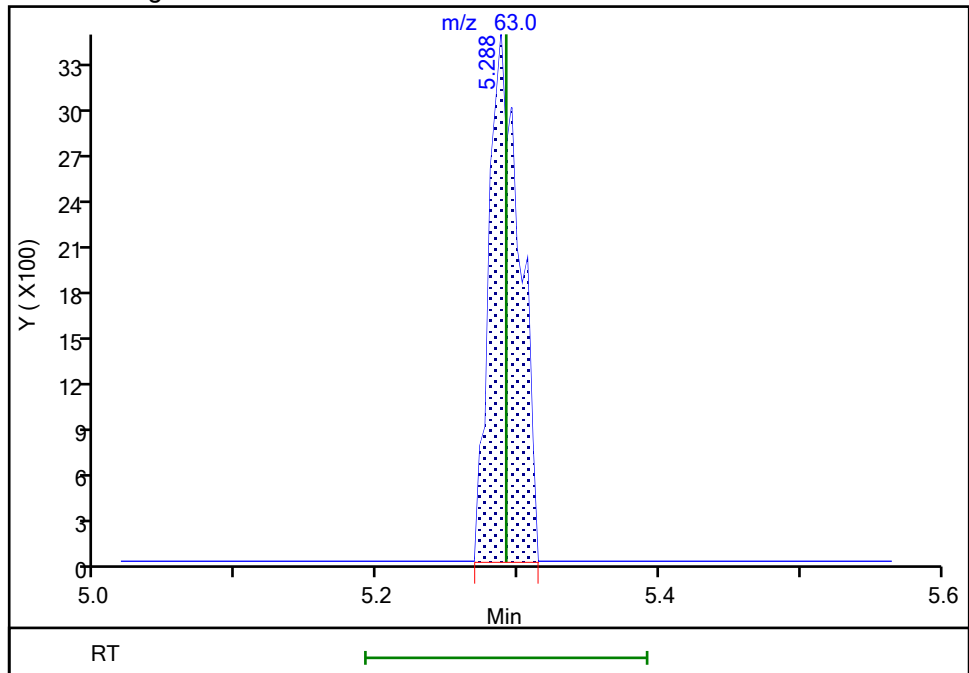
Not Detected
Expected RT: 5.29

Processing Integration Results



RT: 5.29
Area: 5157
Amount: 0.456786
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:39 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

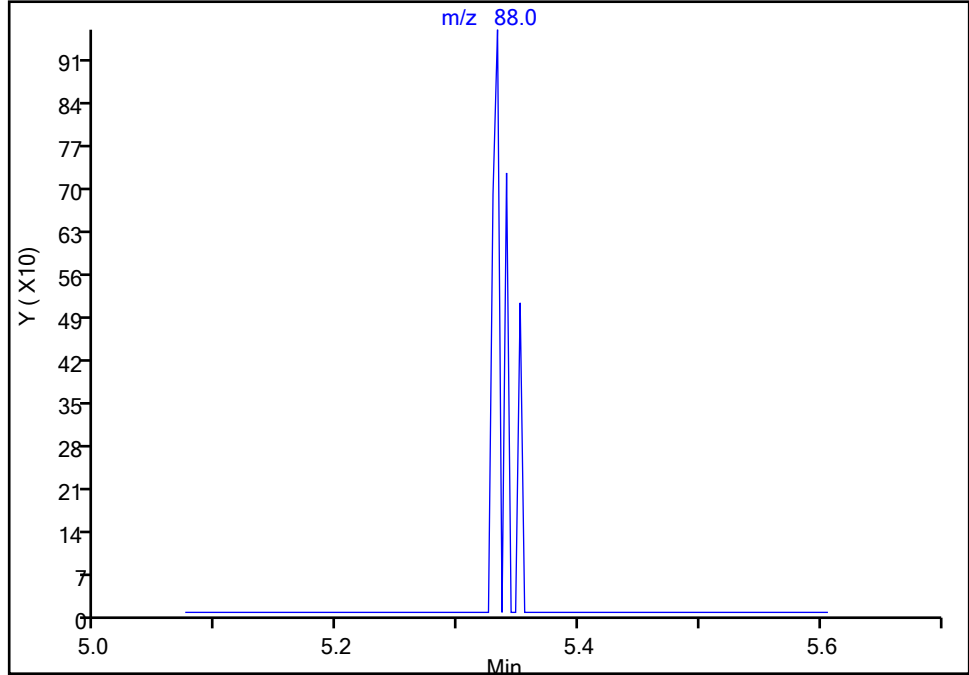
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Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

Signal: 1

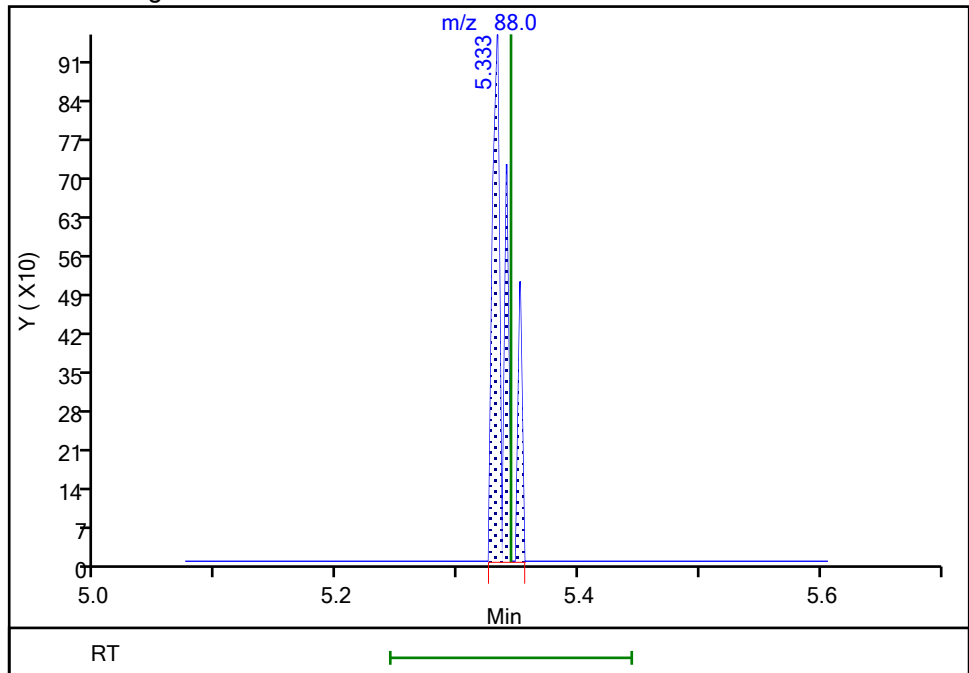
Not Detected
Expected RT: 5.34

Processing Integration Results



RT: 5.33
Area: 648
Amount: 15.460876
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:47 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

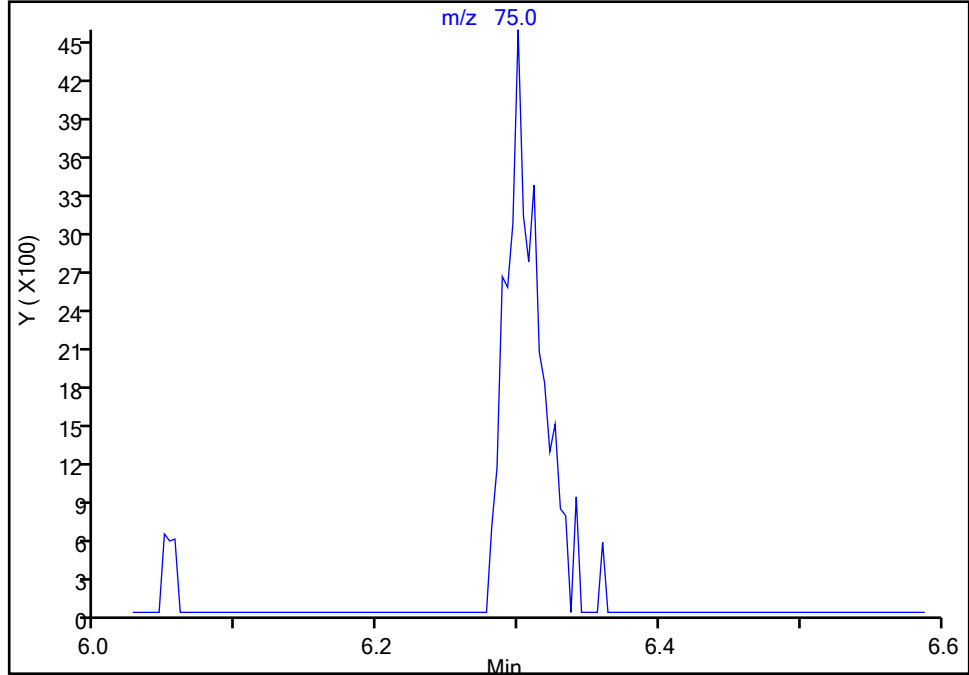
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Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

78 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

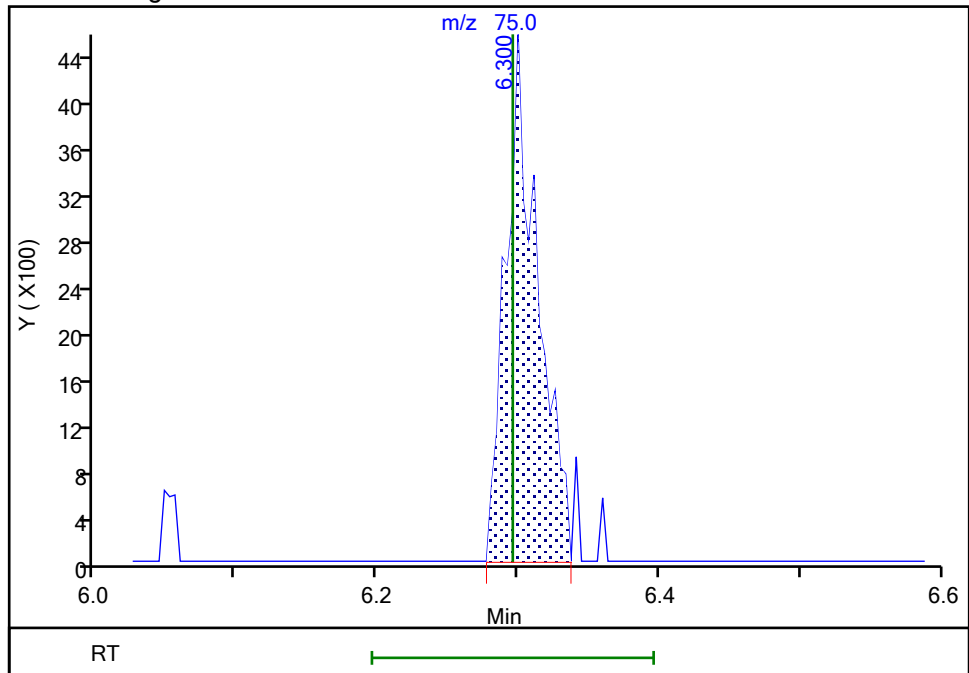
Not Detected
Expected RT: 6.30

Processing Integration Results



RT: 6.30
Area: 7193
Amount: 0.485274
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:54 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

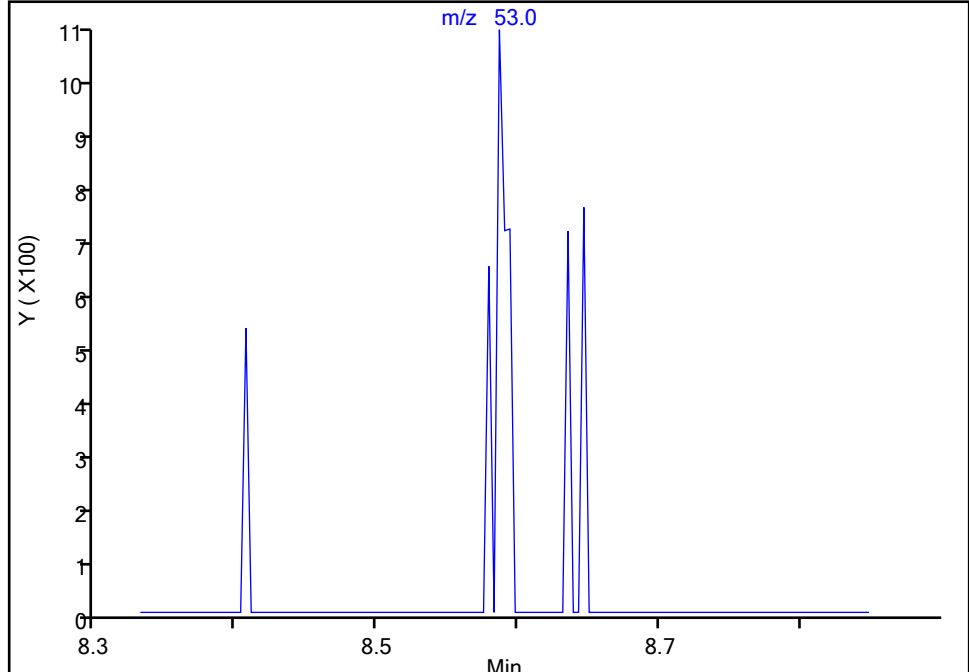
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Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

100 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

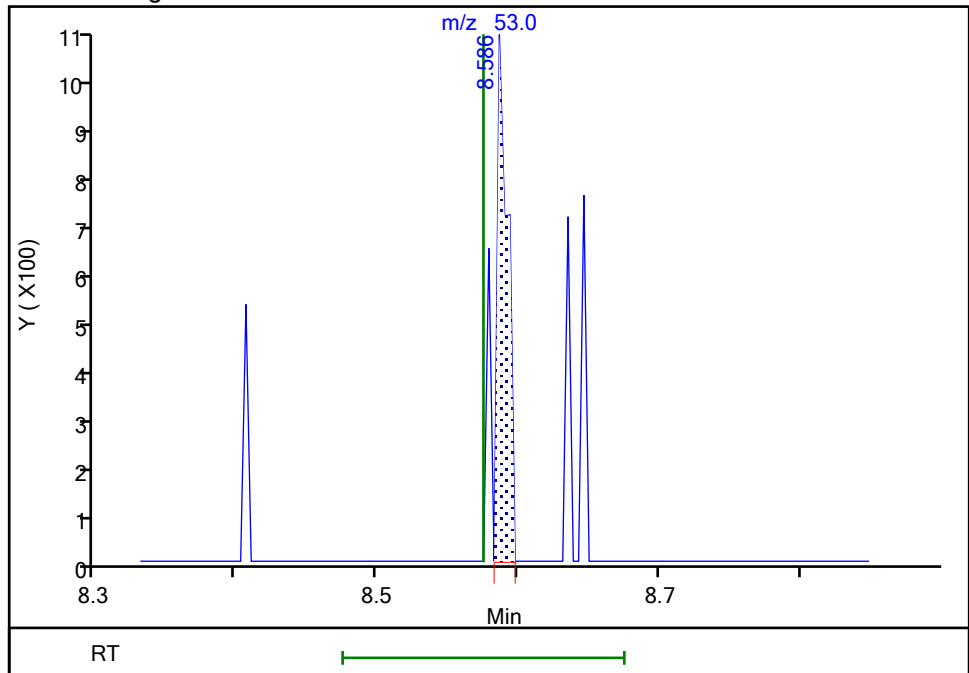
Not Detected
Expected RT: 8.58

Processing Integration Results



RT: 8.59
Area: 571
Amount: 0.173214
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:59:04 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

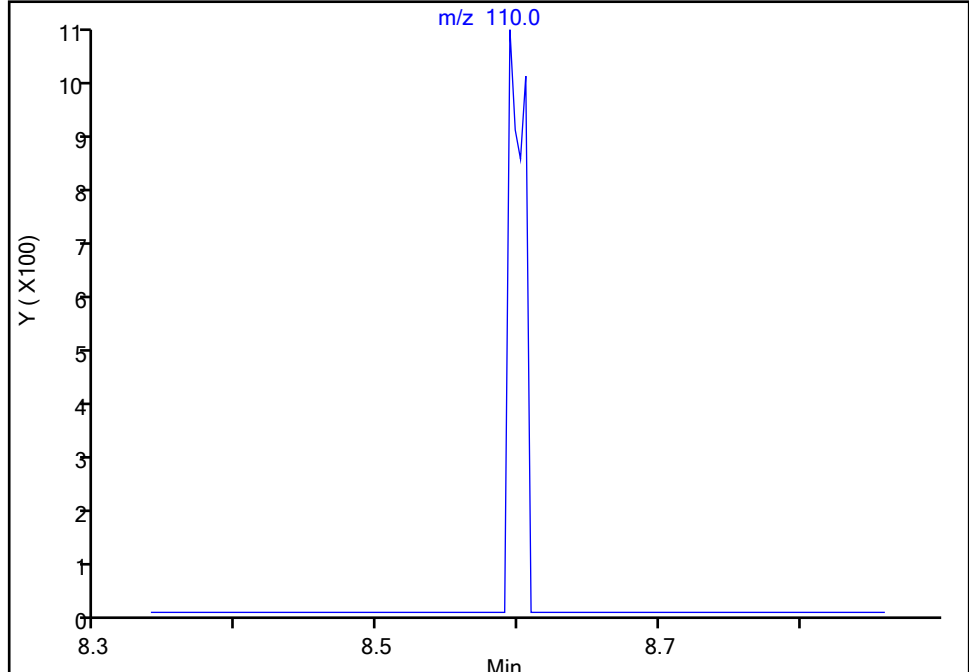
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

101 1,2,3-Trichloropropane, CAS: 96-18-4
Signal: 1

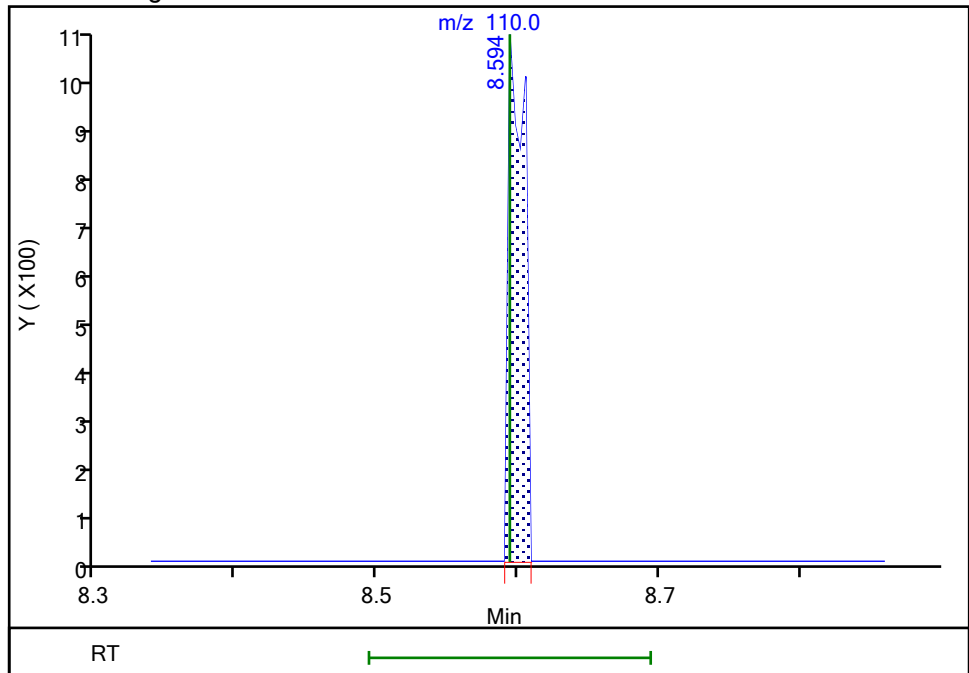
Not Detected
Expected RT: 8.59

Processing Integration Results



RT: 8.59
Area: 807
Amount: 0.641499
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:59:12 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

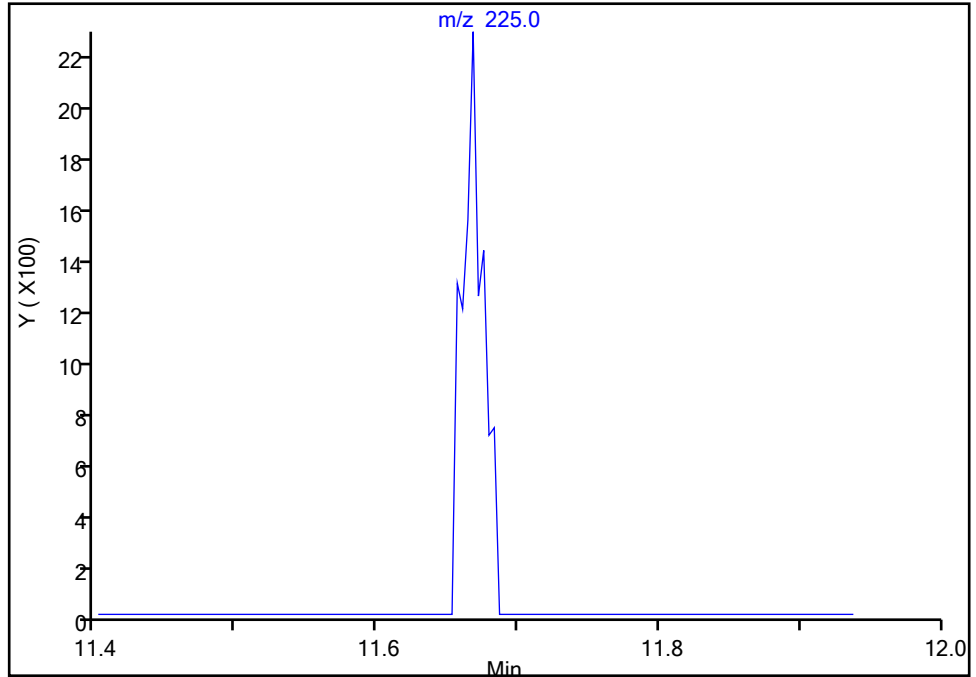
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

119 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

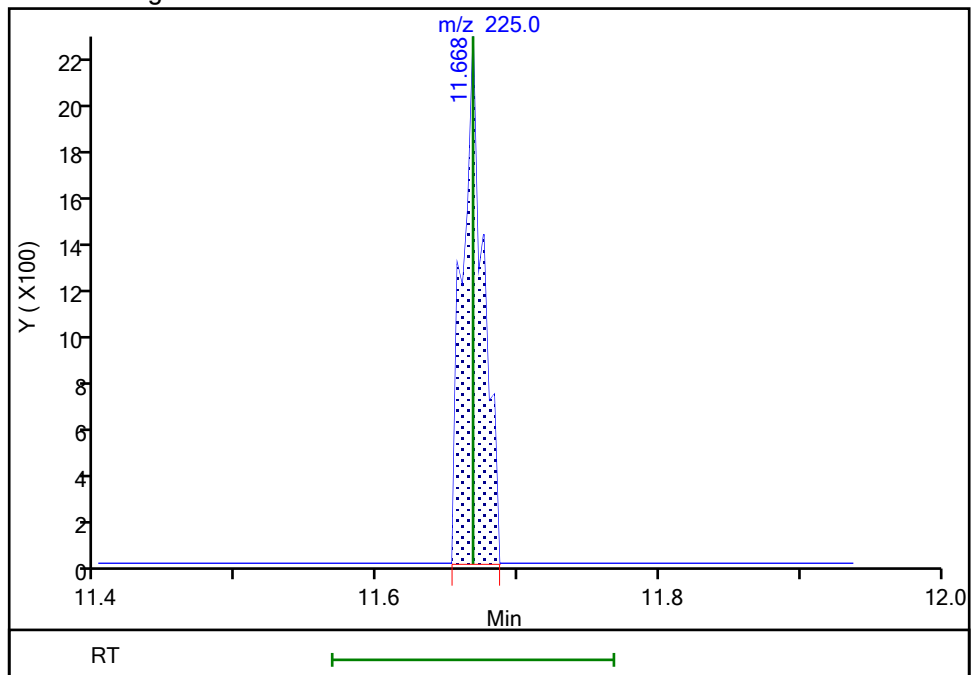
Not Detected
Expected RT: 11.67

Processing Integration Results



RT: 11.67
Area: 2319
Amount: 0.599575
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:59:22 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

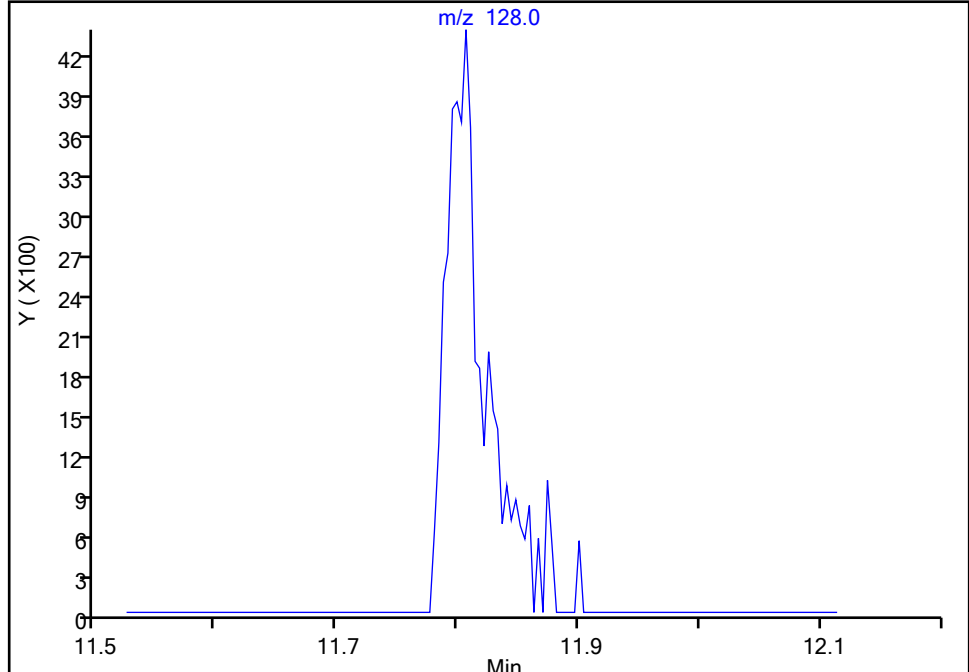
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

120 Naphthalene, CAS: 91-20-3

Signal: 1

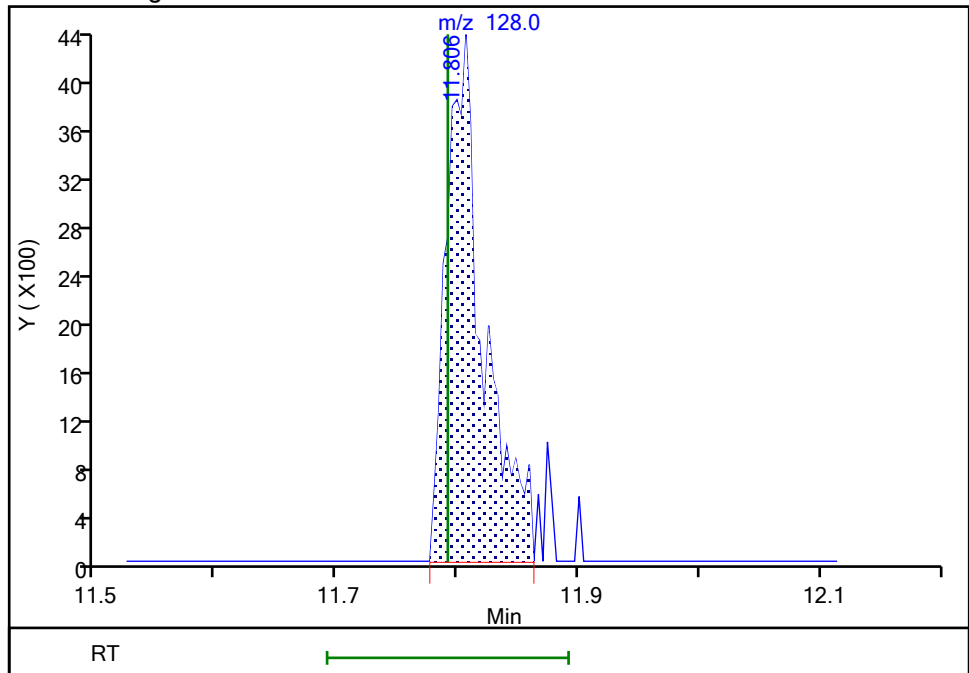
Not Detected
Expected RT: 11.79

Processing Integration Results



RT: 11.81
Area: 9350
Amount: 0.604803
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:59:31 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Calibration

/ Dichlorodifluoromethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

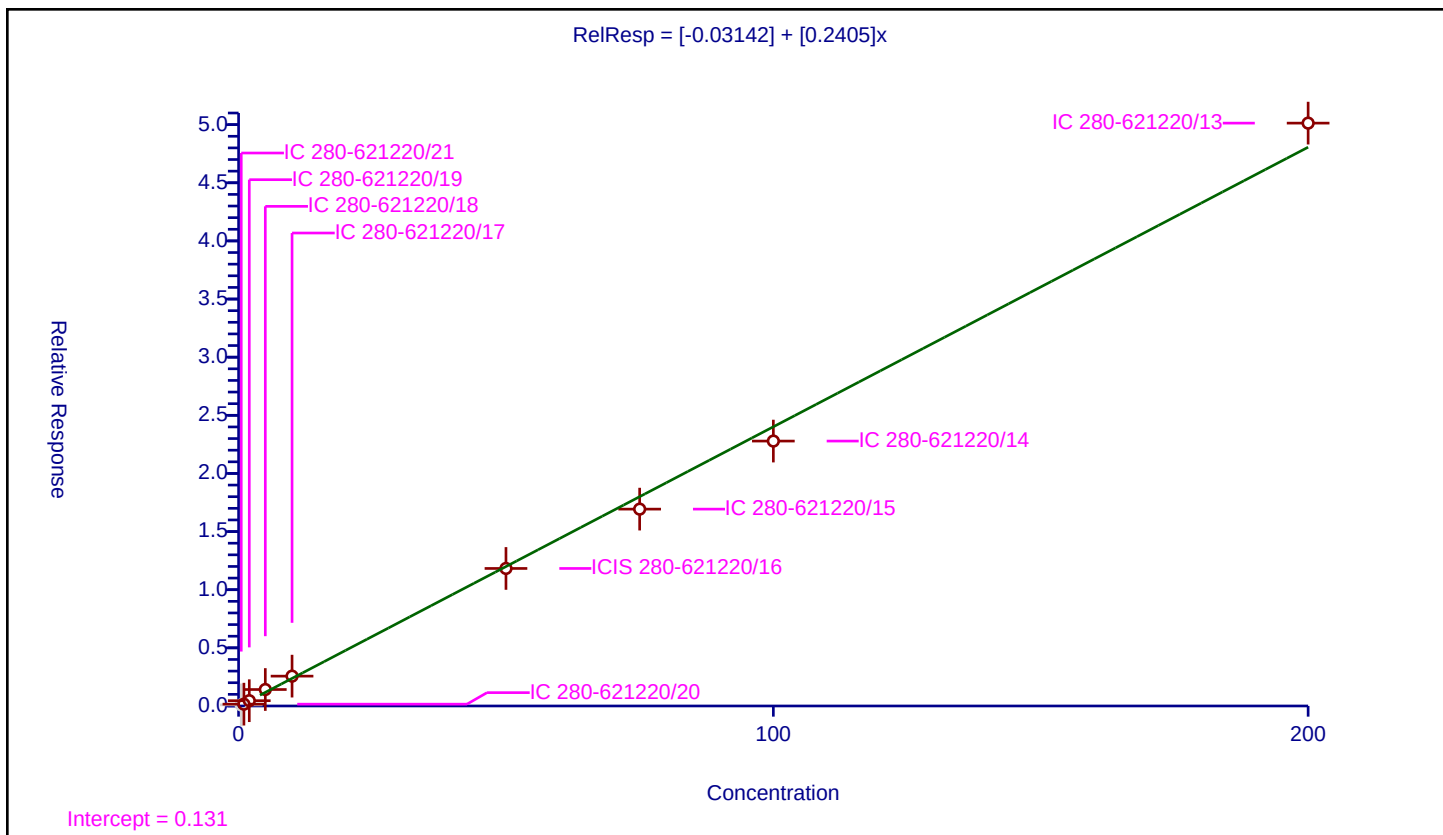
Curve Coefficients

Intercept: -0.03142
 Slope: 0.2405

Error Coefficients

Standard Error: 1070000
 Relative Standard Error: 13.1
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.09526	50.0	2022878.0	0.190521	N
2	IC 280-621220/20	1.0	0.157161	50.0	2130300.0	0.157161	Y
3	IC 280-621220/19	2.0	0.45545	50.0	2179494.0	0.227725	Y
4	IC 280-621220/18	5.0	1.415347	50.0	2161519.0	0.283069	Y
5	IC 280-621220/17	10.0	2.567894	50.0	2216038.0	0.256789	Y
6	ICIS 280-621220/16	50.0	11.829873	50.0	2317582.0	0.236597	Y
7	IC 280-621220/15	75.0	16.932044	50.0	2262624.0	0.225761	Y
8	IC 280-621220/14	100.0	22.78411	50.0	2263977.0	0.227841	Y
9	IC 280-621220/13	200.0	50.130258	50.0	2209843.0	0.250651	Y



Calibration

/ Chloromethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

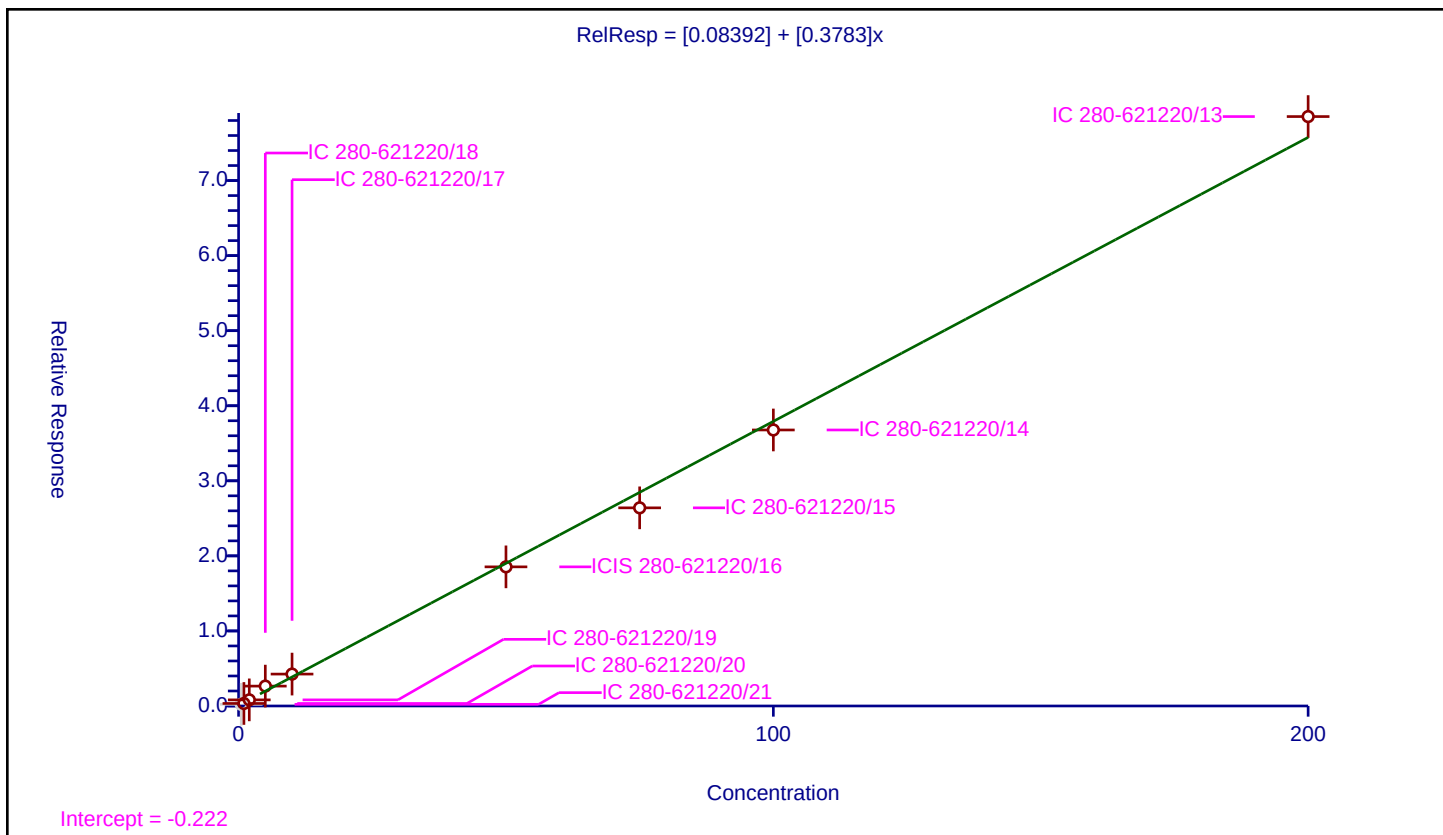
Curve Coefficients

Intercept: 0.08392
 Slope: 0.3783

Error Coefficients

Standard Error: 1680000
 Relative Standard Error: 20.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.221689	50.0	2022878.0	0.443378	N
2	IC 280-621220/20	1.0	0.336314	50.0	2130300.0	0.336314	Y
3	IC 280-621220/19	2.0	0.81613	50.0	2179494.0	0.408065	Y
4	IC 280-621220/18	5.0	2.64749	50.0	2161519.0	0.529498	Y
5	IC 280-621220/17	10.0	4.25013	50.0	2216038.0	0.425013	Y
6	ICIS 280-621220/16	50.0	18.534835	50.0	2317582.0	0.370697	Y
7	IC 280-621220/15	75.0	26.397249	50.0	2262624.0	0.351963	Y
8	IC 280-621220/14	100.0	36.771133	50.0	2263977.0	0.367711	Y
9	IC 280-621220/13	200.0	78.526484	50.0	2209843.0	0.392632	Y



Calibration

/ Vinyl chloride

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

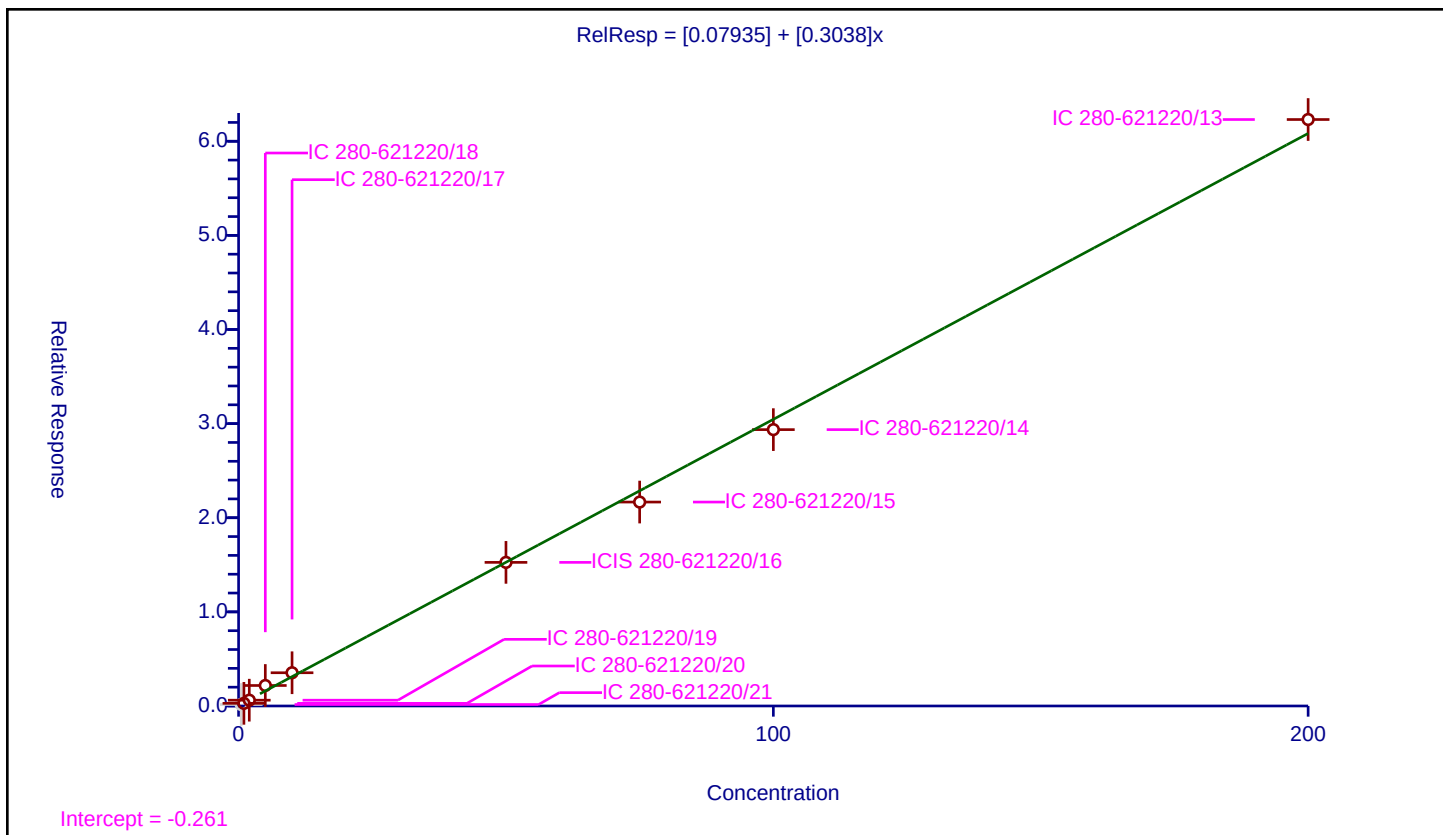
Curve Coefficients

Intercept: 0.07935
 Slope: 0.3038

Error Coefficients

Standard Error: 1340000
 Relative Standard Error: 22.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.158166	50.0	2022878.0	0.316331	N
2	IC 280-621220/20	1.0	0.281744	50.0	2130300.0	0.281744	Y
3	IC 280-621220/19	2.0	0.615005	50.0	2179494.0	0.307503	Y
4	IC 280-621220/18	5.0	2.175947	50.0	2161519.0	0.435189	Y
5	IC 280-621220/17	10.0	3.530806	50.0	2216038.0	0.353081	Y
6	ICIS 280-621220/16	50.0	15.256936	50.0	2317582.0	0.305139	Y
7	IC 280-621220/15	75.0	21.667011	50.0	2262624.0	0.288893	Y
8	IC 280-621220/14	100.0	29.362887	50.0	2263977.0	0.293629	Y
9	IC 280-621220/13	200.0	62.309291	50.0	2209843.0	0.311546	Y



Calibration

/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

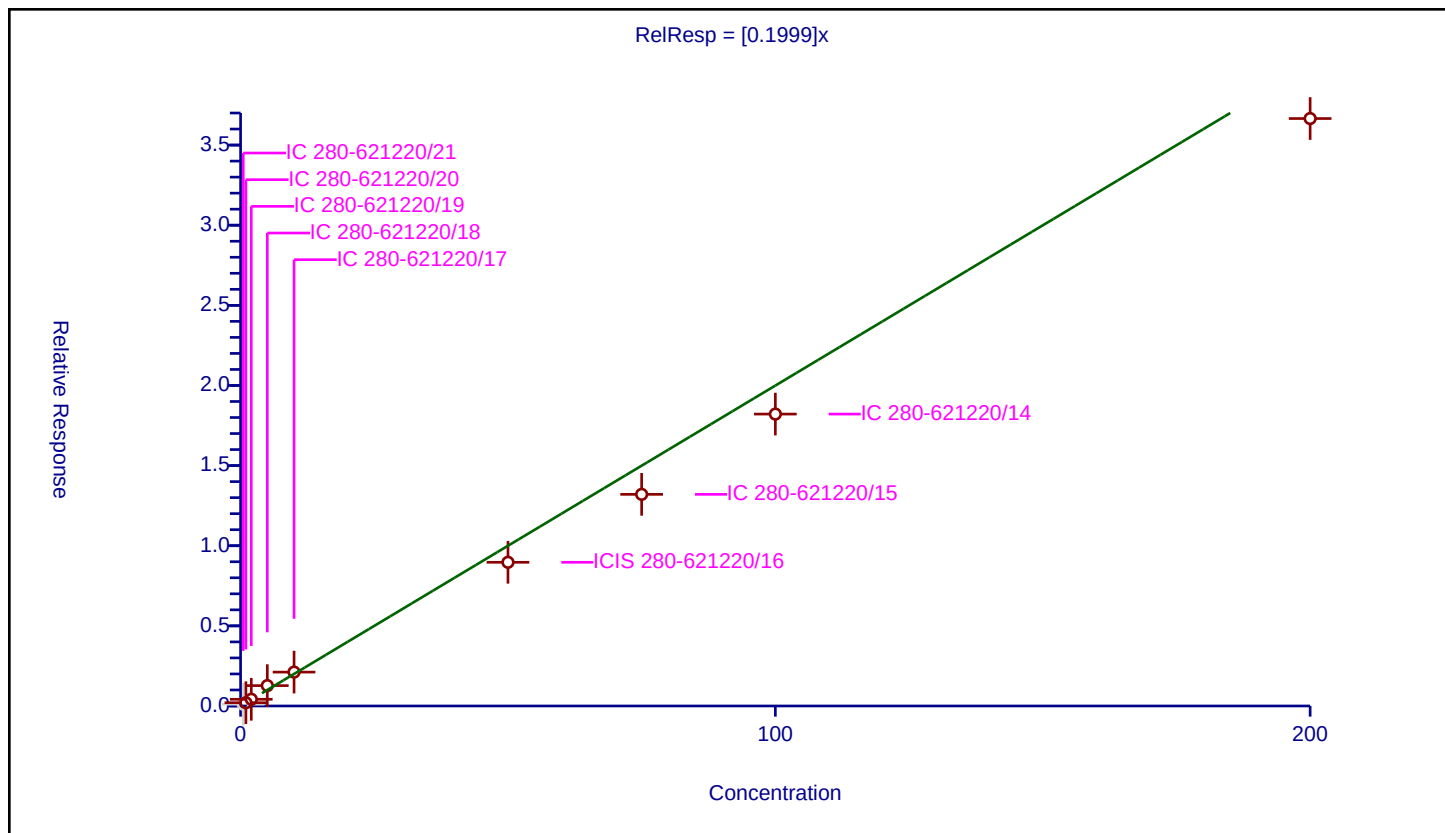
Curve Coefficients

Intercept: 0
Slope: 0.1999

Error Coefficients

Standard Error: 741000
Relative Standard Error: 13.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.11234	50.0	2022878.0	0.22468	N
2	IC 280-621220/20	1.0	0.203868	50.0	2130300.0	0.203868	Y
3	IC 280-621220/19	2.0	0.418262	50.0	2179494.0	0.209131	Y
4	IC 280-621220/18	5.0	1.270866	50.0	2161519.0	0.254173	Y
5	IC 280-621220/17	10.0	2.11472	50.0	2216038.0	0.211472	Y
6	ICIS 280-621220/16	50.0	8.966695	50.0	2317582.0	0.179334	Y
7	IC 280-621220/15	75.0	13.205332	50.0	2262624.0	0.176071	Y
8	IC 280-621220/14	100.0	18.214363	50.0	2263977.0	0.182144	Y
9	IC 280-621220/13	200.0	36.655296	50.0	2209843.0	0.183276	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

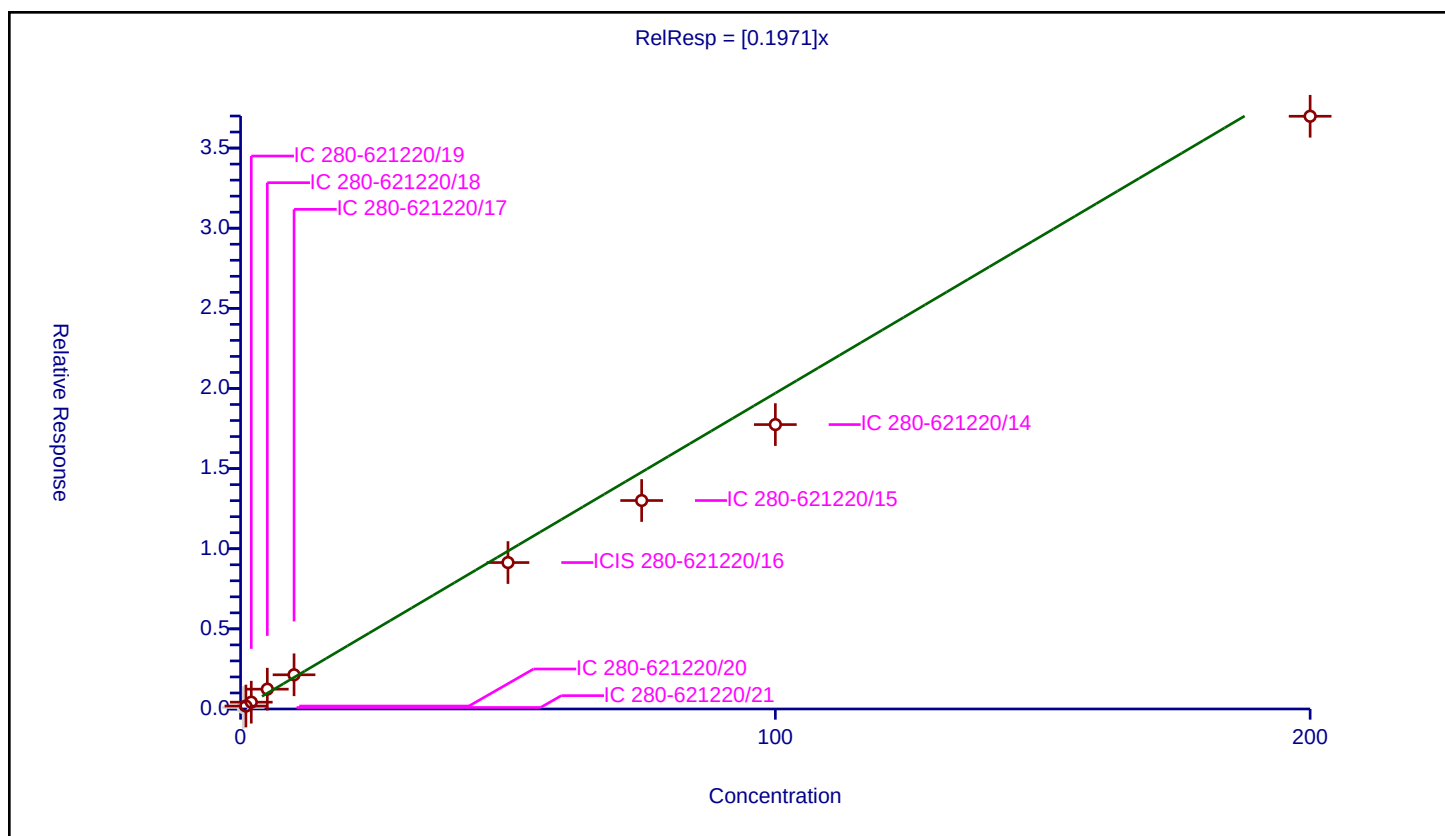
Curve Coefficients

Intercept: 0
Slope: 0.1971

Error Coefficients

Standard Error: 742000
Relative Standard Error: 12.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.093851	50.0	2022878.0	0.187703	N
2	IC 280-621220/20	1.0	0.184293	50.0	2130300.0	0.184293	Y
3	IC 280-621220/19	2.0	0.425672	50.0	2179494.0	0.212836	Y
4	IC 280-621220/18	5.0	1.237186	50.0	2161519.0	0.247437	Y
5	IC 280-621220/17	10.0	2.133379	50.0	2216038.0	0.213338	Y
6	ICIS 280-621220/16	50.0	9.137519	50.0	2317582.0	0.18275	Y
7	IC 280-621220/15	75.0	13.008171	50.0	2262624.0	0.173442	Y
8	IC 280-621220/14	100.0	17.746338	50.0	2263977.0	0.177463	Y
9	IC 280-621220/13	200.0	36.985727	50.0	2209843.0	0.184929	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

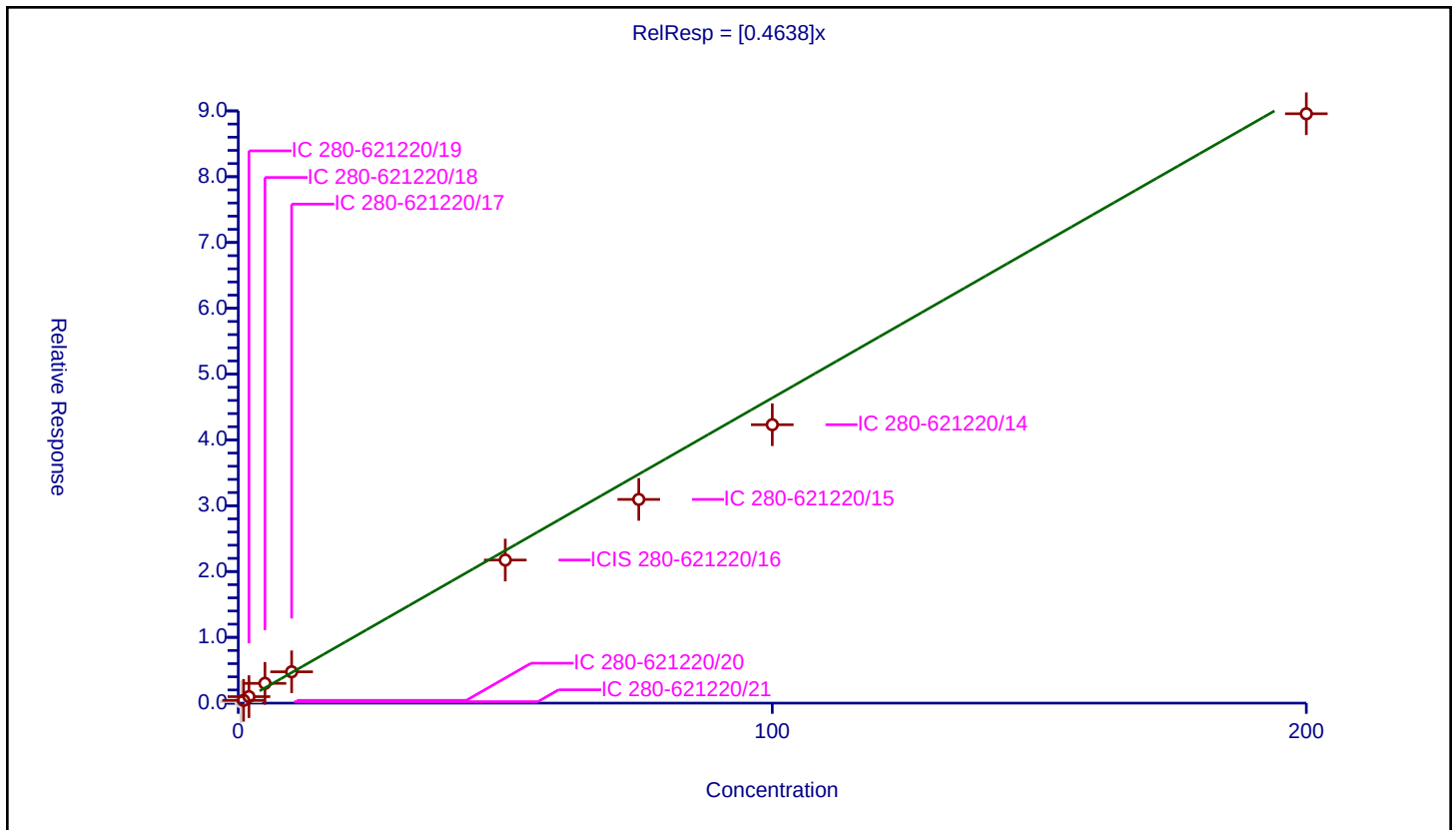
Curve Coefficients

Intercept: 0
Slope: 0.4638

Error Coefficients

Standard Error: 1790000
Relative Standard Error: 13.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.225817	50.0	2022878.0	0.451634	N
2	IC 280-621220/20	1.0	0.422757	50.0	2130300.0	0.422757	Y
3	IC 280-621220/19	2.0	0.984288	50.0	2179494.0	0.492144	Y
4	IC 280-621220/18	5.0	3.003744	50.0	2161519.0	0.600749	Y
5	IC 280-621220/17	10.0	4.762418	50.0	2216038.0	0.476242	Y
6	ICIS 280-621220/16	50.0	21.745077	50.0	2317582.0	0.434902	Y
7	IC 280-621220/15	75.0	30.958325	50.0	2262624.0	0.412778	Y
8	IC 280-621220/14	100.0	42.308137	50.0	2263977.0	0.423081	Y
9	IC 280-621220/13	200.0	89.56634	50.0	2209843.0	0.447832	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

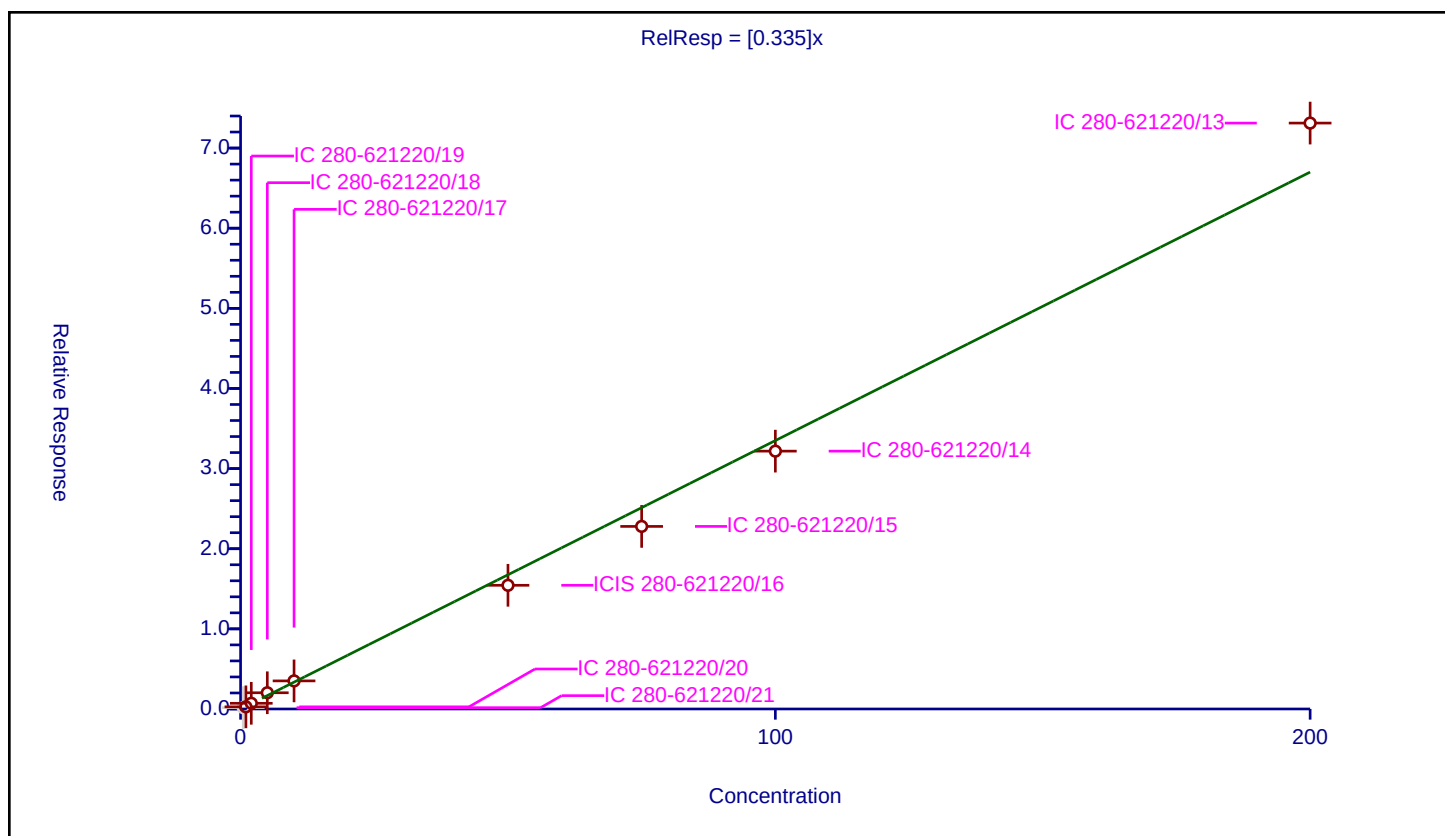
Curve Coefficients

Intercept: 0
Slope: 0.335

Error Coefficients

Standard Error: 1420000
Relative Standard Error: 12.8
Correlation Coefficient: 0.995
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.166051	50.0	2022878.0	0.332101	N
2	IC 280-621220/20	1.0	0.268413	50.0	2130300.0	0.268413	Y
3	IC 280-621220/19	2.0	0.711885	50.0	2179494.0	0.355943	Y
4	IC 280-621220/18	5.0	2.025404	50.0	2161519.0	0.405081	Y
5	IC 280-621220/17	10.0	3.507295	50.0	2216038.0	0.35073	Y
6	ICIS 280-621220/16	50.0	15.436131	50.0	2317582.0	0.308723	Y
7	IC 280-621220/15	75.0	22.78569	50.0	2262624.0	0.303809	Y
8	IC 280-621220/14	100.0	32.178684	50.0	2263977.0	0.321787	Y
9	IC 280-621220/13	200.0	73.117231	50.0	2209843.0	0.365586	Y



Calibration

/ Ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

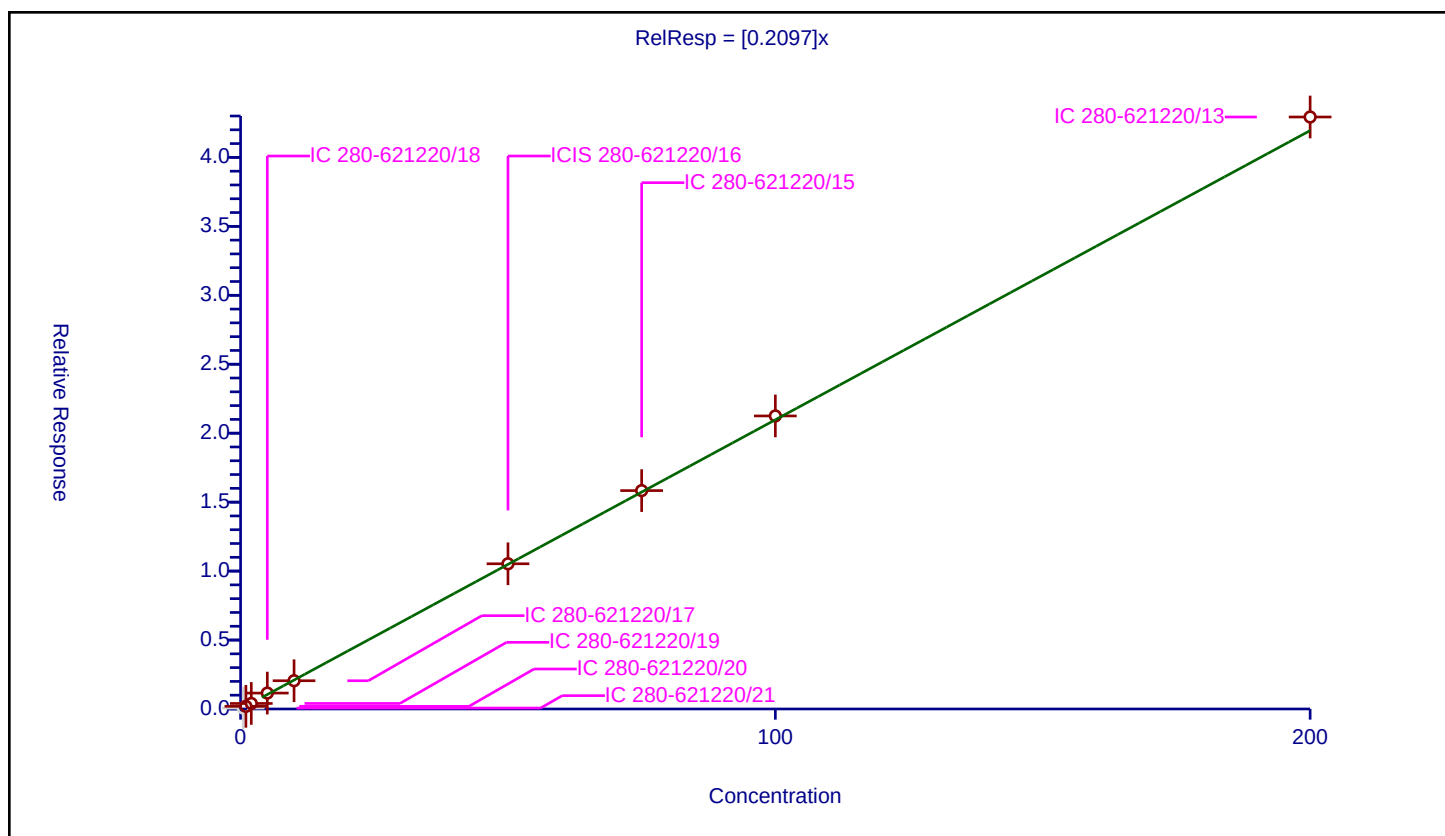
Curve Coefficients

Intercept: 0
 Slope: 0.2097

Error Coefficients

Standard Error: 869000
 Relative Standard Error: 5.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.069233	50.0	2022878.0	0.138466	N
2	IC 280-621220/20	1.0	0.192907	50.0	2130300.0	0.192907	Y
3	IC 280-621220/19	2.0	0.400712	50.0	2179494.0	0.200356	Y
4	IC 280-621220/18	5.0	1.153679	50.0	2161519.0	0.230736	Y
5	IC 280-621220/17	10.0	2.048498	50.0	2216038.0	0.20485	Y
6	ICIS 280-621220/16	50.0	10.529876	50.0	2317582.0	0.210598	Y
7	IC 280-621220/15	75.0	15.837276	50.0	2262624.0	0.211164	Y
8	IC 280-621220/14	100.0	21.250525	50.0	2263977.0	0.212505	Y
9	IC 280-621220/13	200.0	42.928887	50.0	2209843.0	0.214644	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

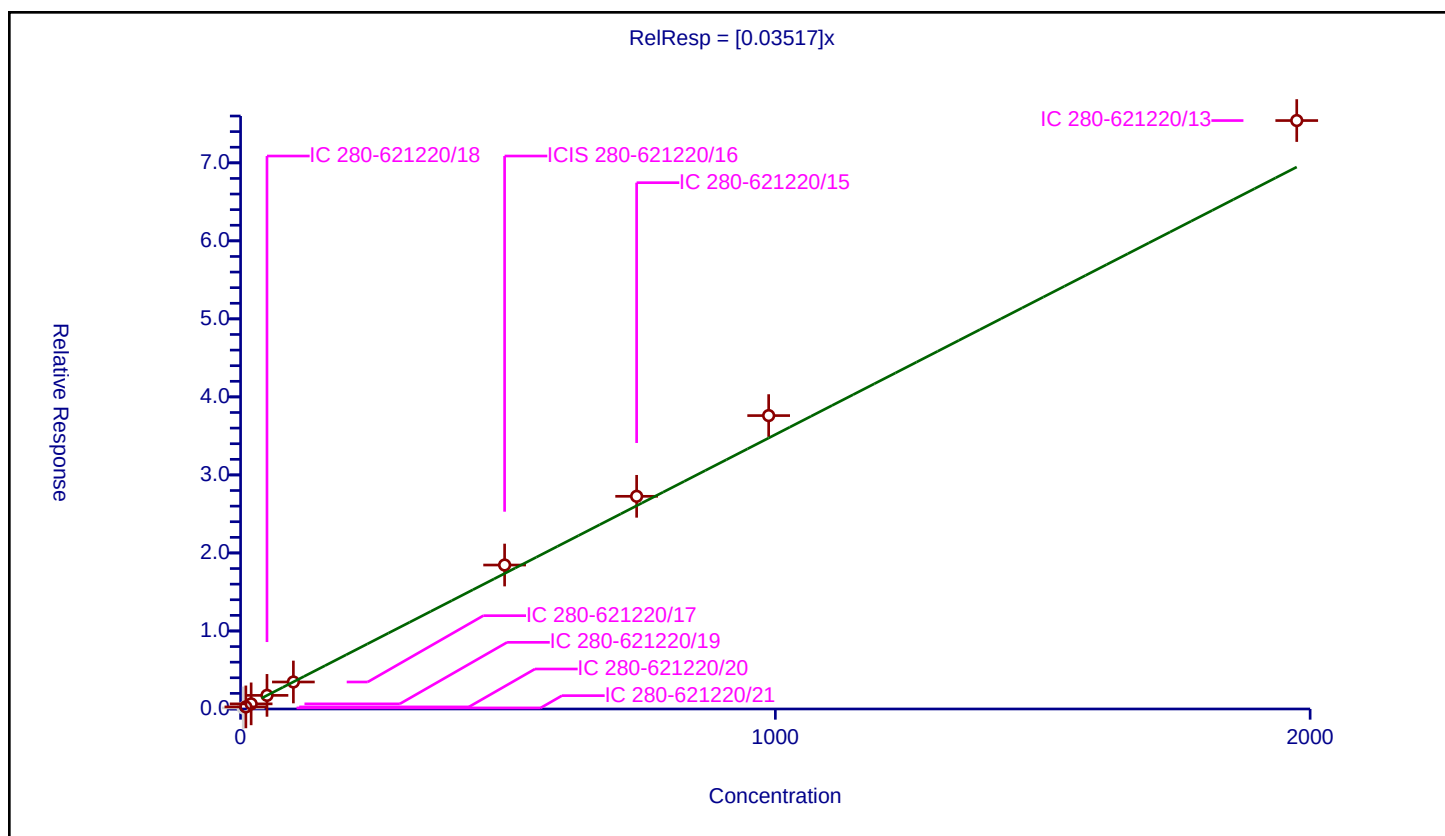
Curve Coefficients

Intercept: 0
Slope: 0.03517

Error Coefficients

Standard Error: 1530000
Relative Standard Error: 10.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	4.9375	0.139035	50.0	2022878.0	0.028159	N
2	IC 280-621220/20	9.875	0.268648	50.0	2130300.0	0.027205	Y
3	IC 280-621220/19	19.75	0.657561	50.0	2179494.0	0.033294	Y
4	IC 280-621220/18	49.375	1.746133	50.0	2161519.0	0.035365	Y
5	IC 280-621220/17	98.75	3.462125	50.0	2216038.0	0.035059	Y
6	ICIS 280-621220/16	493.75	18.451429	50.0	2317582.0	0.03737	Y
7	IC 280-621220/15	740.625	27.259412	50.0	2262624.0	0.036806	Y
8	IC 280-621220/14	987.5	37.604821	50.0	2263977.0	0.038081	Y
9	IC 280-621220/13	1975.0	75.41848	50.0	2209843.0	0.038187	Y



Calibration

/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

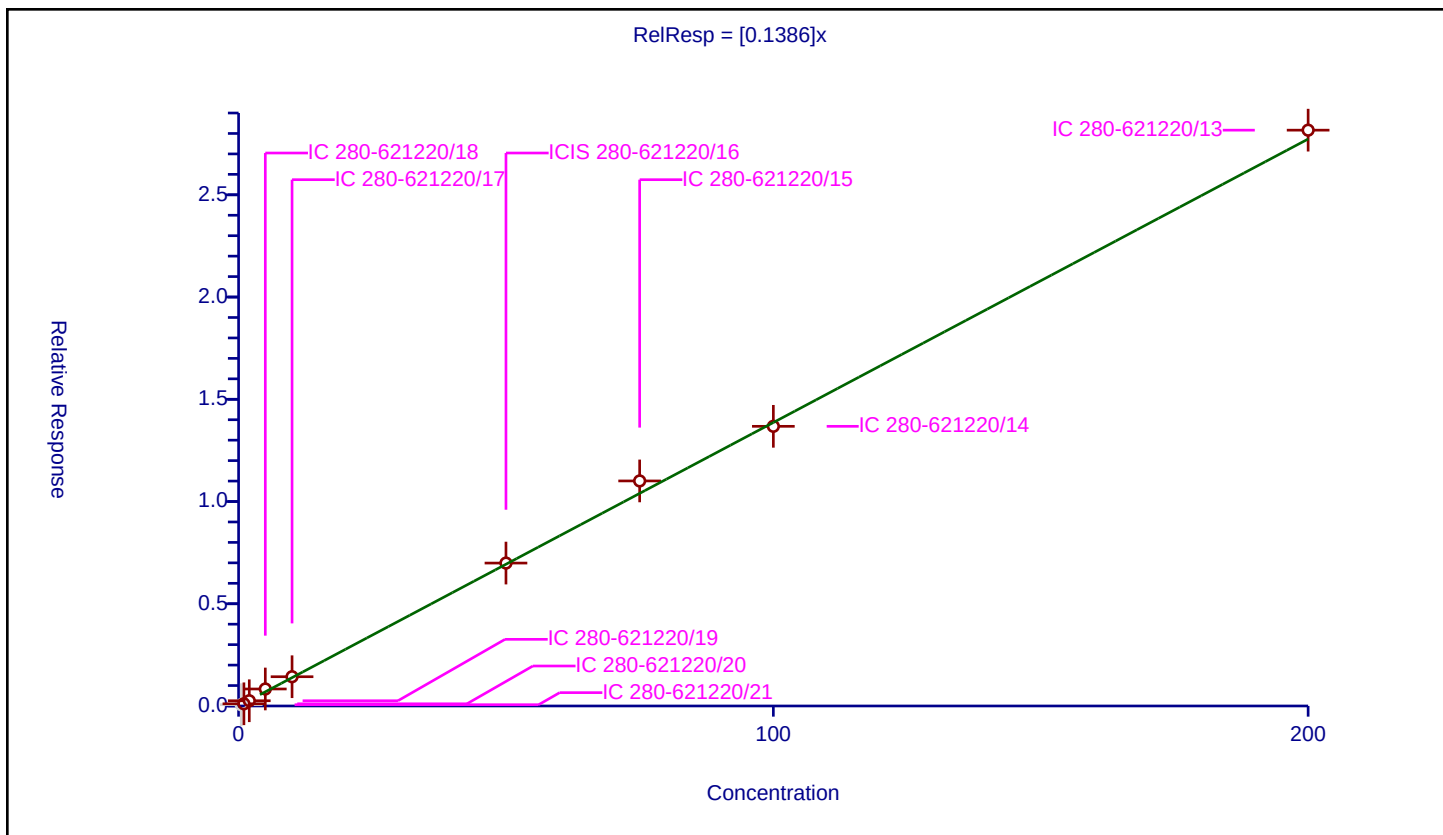
Curve Coefficients

Intercept: 0
 Slope: 0.1386

Error Coefficients

Standard Error: 572000
 Relative Standard Error: 12.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.063054	50.0	2022878.0	0.126107	N
2	IC 280-621220/20	1.0	0.107567	50.0	2130300.0	0.107567	Y
3	IC 280-621220/19	2.0	0.255862	50.0	2179494.0	0.127931	Y
4	IC 280-621220/18	5.0	0.831753	50.0	2161519.0	0.166351	Y
5	IC 280-621220/17	10.0	1.431429	50.0	2216038.0	0.143143	Y
6	ICIS 280-621220/16	50.0	6.989008	50.0	2317582.0	0.13978	Y
7	IC 280-621220/15	75.0	11.00669	50.0	2262624.0	0.146756	Y
8	IC 280-621220/14	100.0	13.676994	50.0	2263977.0	0.13677	Y
9	IC 280-621220/13	200.0	28.161729	50.0	2209843.0	0.140809	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

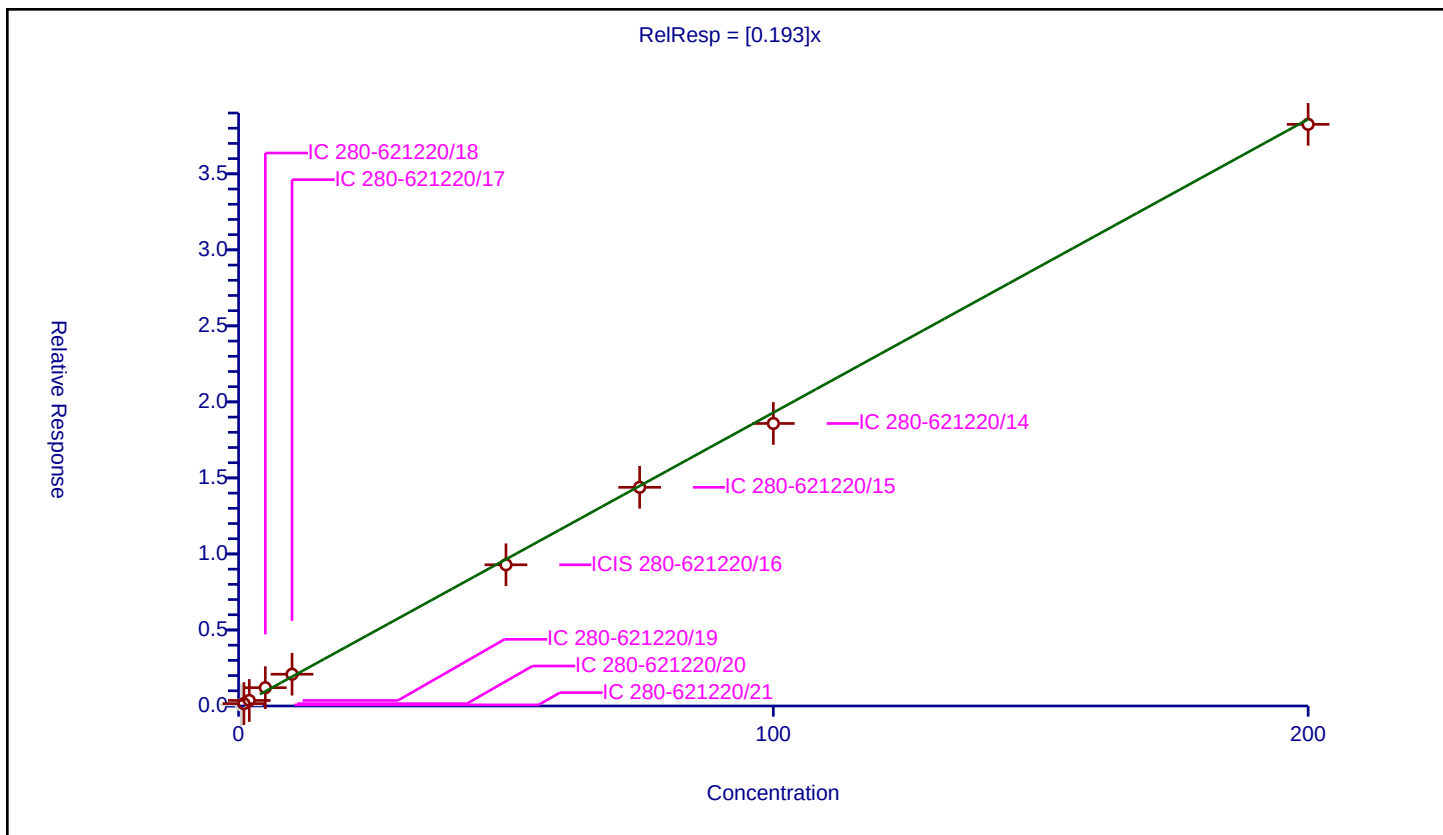
Curve Coefficients

Intercept: 0
Slope: 0.193

Error Coefficients

Standard Error: 773000
Relative Standard Error: 12.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.075042	50.0	2022878.0	0.150083	N
2	IC 280-621220/20	1.0	0.157208	50.0	2130300.0	0.157208	Y
3	IC 280-621220/19	2.0	0.364328	50.0	2179494.0	0.182164	Y
4	IC 280-621220/18	5.0	1.20332	50.0	2161519.0	0.240664	Y
5	IC 280-621220/17	10.0	2.089969	50.0	2216038.0	0.208997	Y
6	ICIS 280-621220/16	50.0	9.287158	50.0	2317582.0	0.185743	Y
7	IC 280-621220/15	75.0	14.38193	50.0	2262624.0	0.191759	Y
8	IC 280-621220/14	100.0	18.581395	50.0	2263977.0	0.185814	Y
9	IC 280-621220/13	200.0	38.253736	50.0	2209843.0	0.191269	Y



Calibration

/ Acetone

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

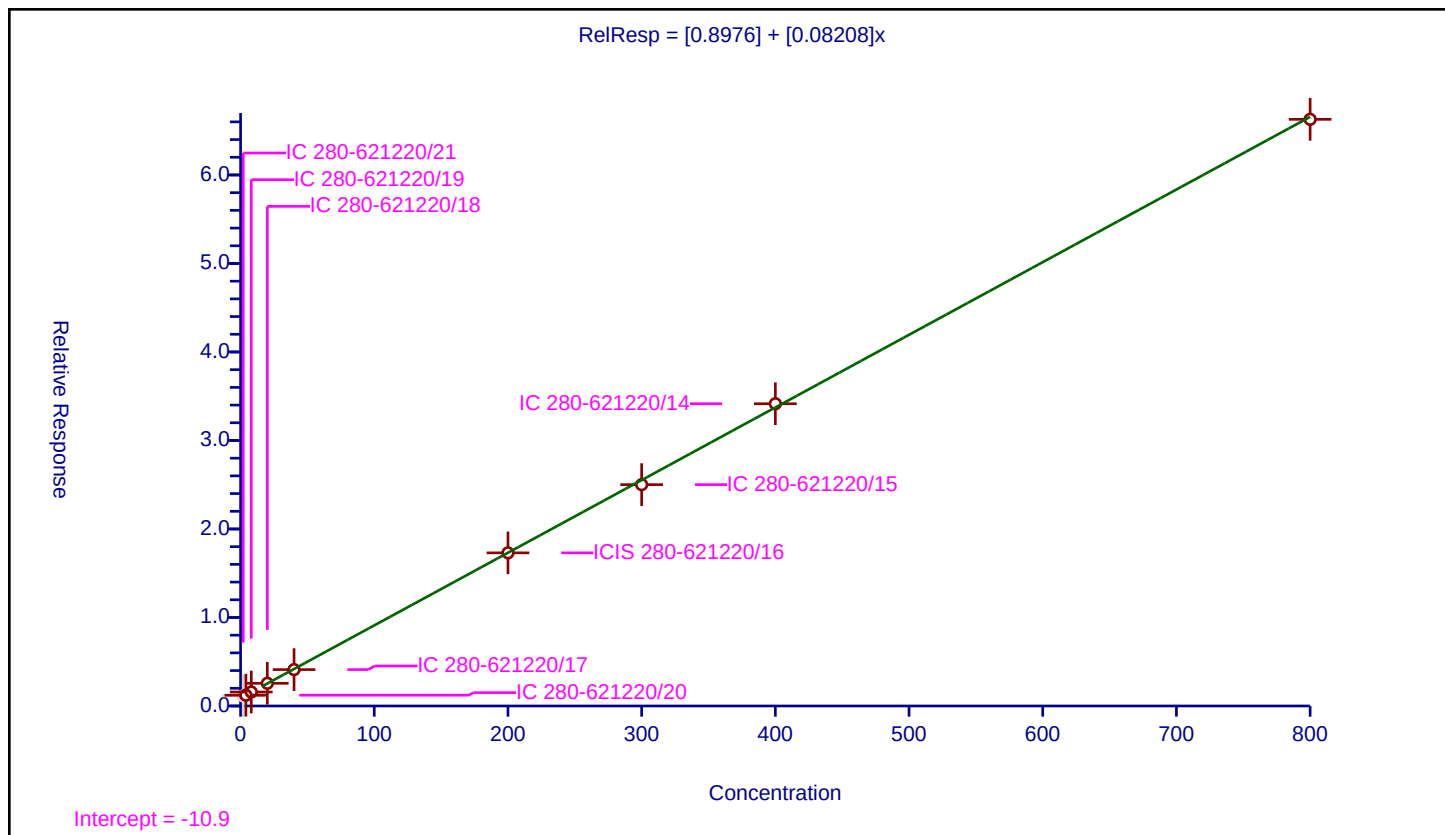
Curve Coefficients

Intercept: 0.8976
 Slope: 0.08208

Error Coefficients

Standard Error: 1470000
 Relative Standard Error: 2.4
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	2.0	1.142778	50.0	2022878.0	0.571389	N
2	IC 280-621220/20	4.0	1.218983	50.0	2130300.0	0.304746	Y
3	IC 280-621220/19	8.0	1.581124	50.0	2179494.0	0.19764	Y
4	IC 280-621220/18	20.0	2.562897	50.0	2161519.0	0.128145	Y
5	IC 280-621220/17	40.0	4.110263	50.0	2216038.0	0.102757	Y
6	ICIS 280-621220/16	200.0	17.303832	50.0	2317582.0	0.086519	Y
7	IC 280-621220/15	300.0	25.010872	50.0	2262624.0	0.08337	Y
8	IC 280-621220/14	400.0	34.152511	50.0	2263977.0	0.085381	Y
9	IC 280-621220/13	800.0	66.285139	50.0	2209843.0	0.082856	Y



Calibration

/ Iodomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

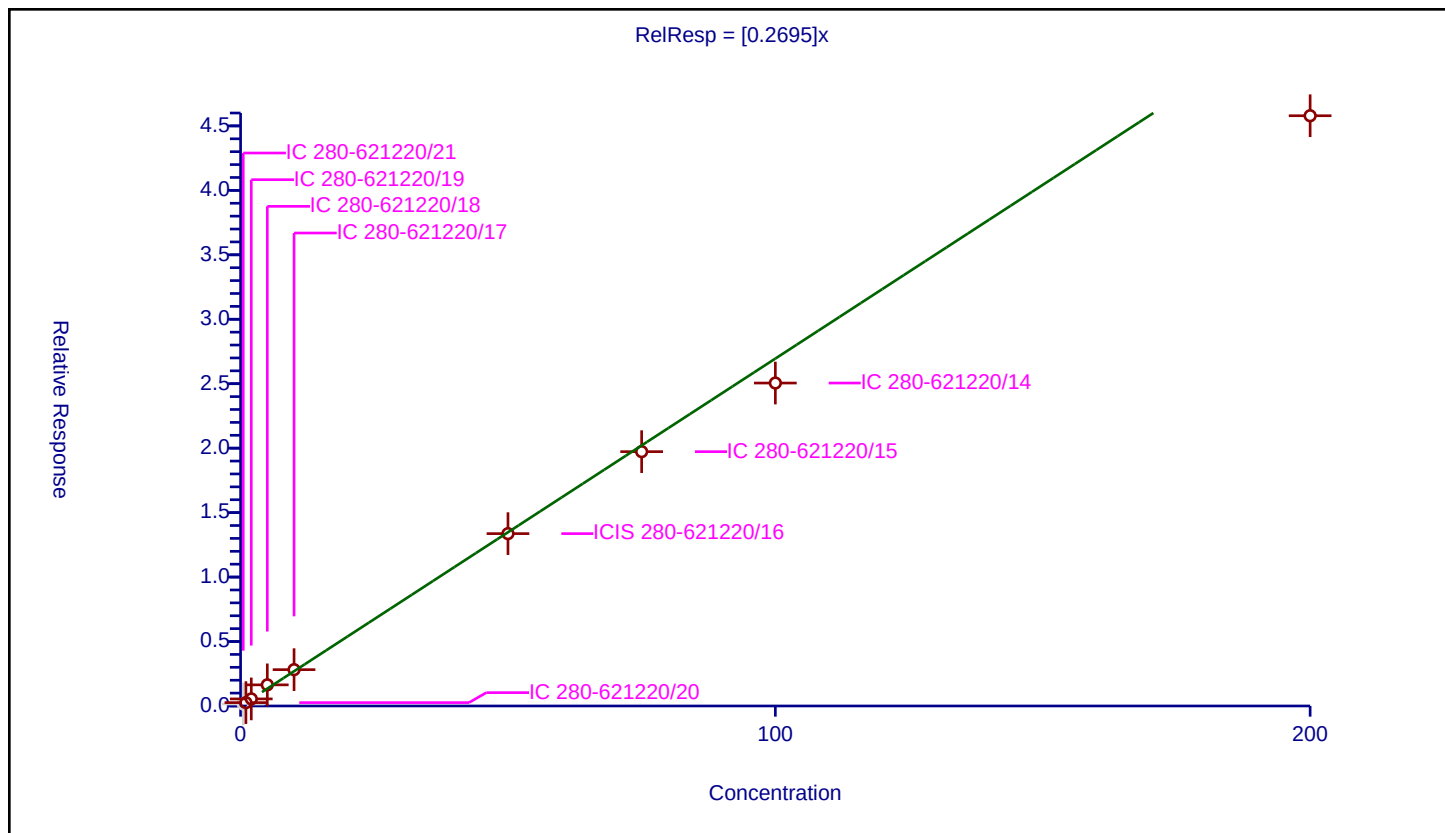
Curve Coefficients

Intercept: 0
 Slope: 0.2695

Error Coefficients

Standard Error: 970000
 Relative Standard Error: 10.6
 Correlation Coefficient: 0.993
 Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.154409	50.0	2022878.0	0.308817	N
2	IC 280-621220/20	1.0	0.261512	50.0	2130300.0	0.261512	Y
3	IC 280-621220/19	2.0	0.549439	50.0	2179494.0	0.27472	Y
4	IC 280-621220/18	5.0	1.64005	50.0	2161519.0	0.32801	Y
5	IC 280-621220/17	10.0	2.818047	50.0	2216038.0	0.281805	Y
6	ICIS 280-621220/16	50.0	13.370185	50.0	2317582.0	0.267404	Y
7	IC 280-621220/15	75.0	19.730499	50.0	2262624.0	0.263073	Y
8	IC 280-621220/14	100.0	25.052816	50.0	2263977.0	0.250528	Y
9	IC 280-621220/13	200.0	45.788185	50.0	2209843.0	0.228941	Y



Calibration

/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

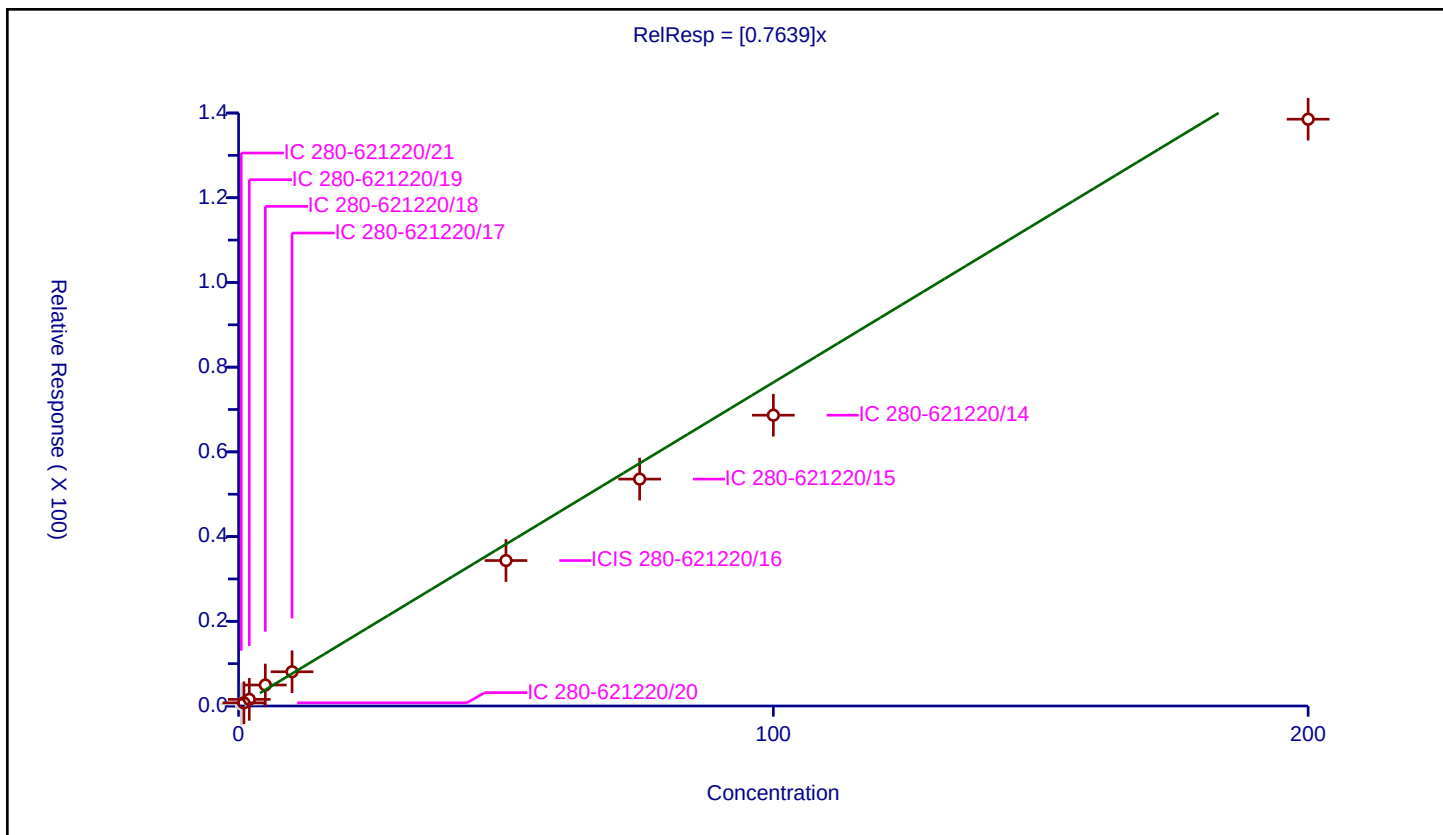
Curve Coefficients

Intercept: 0
 Slope: 0.7639

Error Coefficients

Standard Error: 2820000
 Relative Standard Error: 13.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.460853	50.0	2022878.0	0.921707	N
2	IC 280-621220/20	1.0	0.751631	50.0	2130300.0	0.751631	Y
3	IC 280-621220/19	2.0	1.562977	50.0	2179494.0	0.781489	Y
4	IC 280-621220/18	5.0	4.948858	50.0	2161519.0	0.989772	Y
5	IC 280-621220/17	10.0	8.082307	50.0	2216038.0	0.808231	Y
6	ICIS 280-621220/16	50.0	34.340123	50.0	2317582.0	0.686802	Y
7	IC 280-621220/15	75.0	53.569882	50.0	2262624.0	0.714265	Y
8	IC 280-621220/14	100.0	68.652663	50.0	2263977.0	0.686527	Y
9	IC 280-621220/13	200.0	138.538914	50.0	2209843.0	0.692695	Y



Calibration

/ Methyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

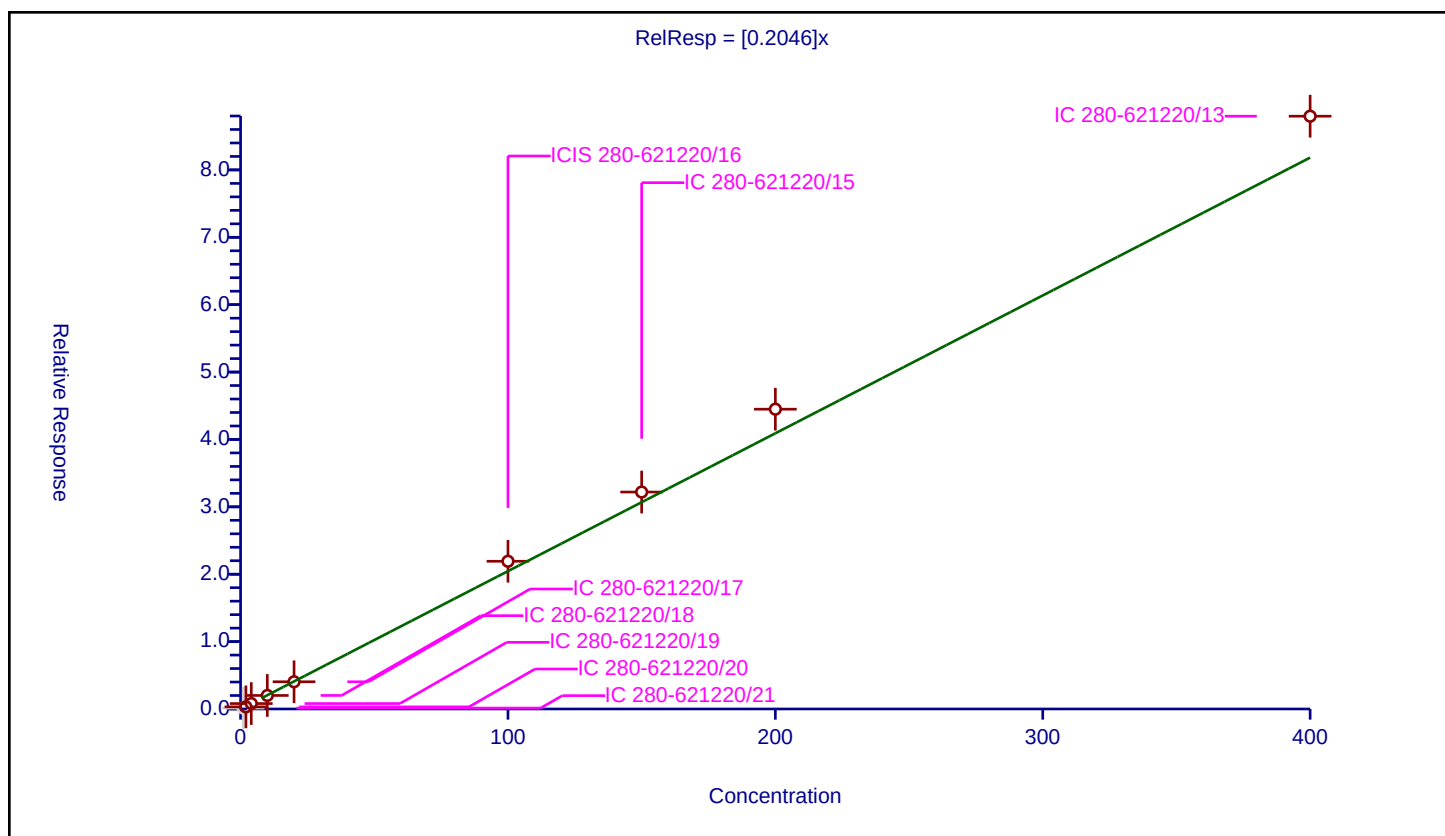
Curve Coefficients

Intercept: 0
 Slope: 0.2046

Error Coefficients

Standard Error: 1790000
 Relative Standard Error: 10.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	1.0	0.135945	50.0	2022878.0	0.135945	N
2	IC 280-621220/20	2.0	0.31289	50.0	2130300.0	0.156445	Y
3	IC 280-621220/19	4.0	0.804751	50.0	2179494.0	0.201188	Y
4	IC 280-621220/18	10.0	2.006668	50.0	2161519.0	0.200667	Y
5	IC 280-621220/17	20.0	4.0391	50.0	2216038.0	0.201955	Y
6	ICIS 280-621220/16	100.0	21.92108	50.0	2317582.0	0.219211	Y
7	IC 280-621220/15	150.0	32.195451	50.0	2262624.0	0.214636	Y
8	IC 280-621220/14	200.0	44.490359	50.0	2263977.0	0.222452	Y
9	IC 280-621220/13	400.0	87.973738	50.0	2209843.0	0.219934	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

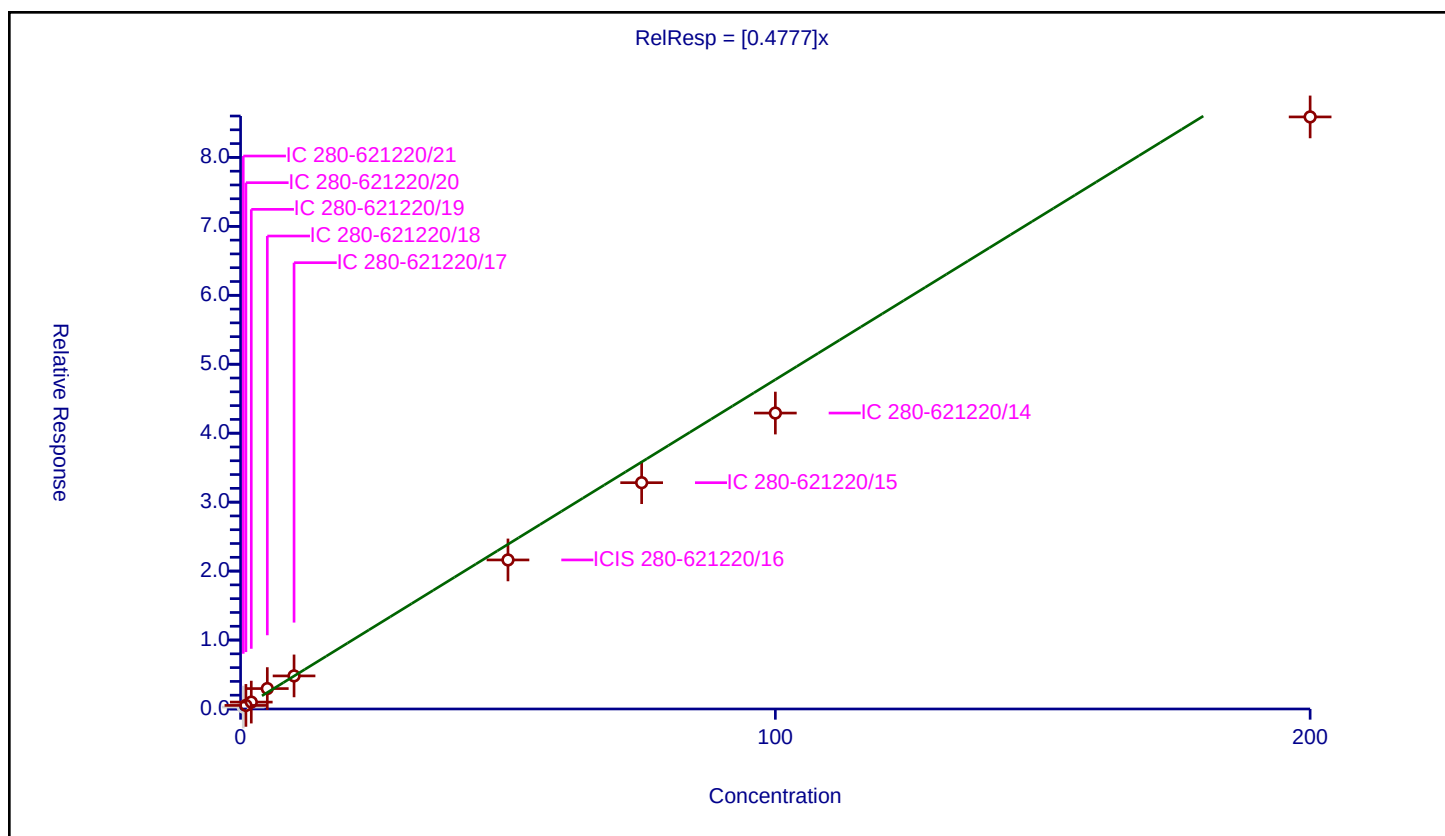
Curve Coefficients

Intercept: 0
Slope: 0.4777

Error Coefficients

Standard Error: 1750000
Relative Standard Error: 12.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.280269	50.0	2022878.0	0.560538	N
2	IC 280-621220/20	1.0	0.52164	50.0	2130300.0	0.52164	Y
3	IC 280-621220/19	2.0	0.998236	50.0	2179494.0	0.499118	Y
4	IC 280-621220/18	5.0	2.961089	50.0	2161519.0	0.592218	Y
5	IC 280-621220/17	10.0	4.799489	50.0	2216038.0	0.479949	Y
6	ICIS 280-621220/16	50.0	21.617854	50.0	2317582.0	0.432357	Y
7	IC 280-621220/15	75.0	32.820411	50.0	2262624.0	0.437605	Y
8	IC 280-621220/14	100.0	42.918766	50.0	2263977.0	0.429188	Y
9	IC 280-621220/13	200.0	85.868702	50.0	2209843.0	0.429344	Y



Calibration

/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

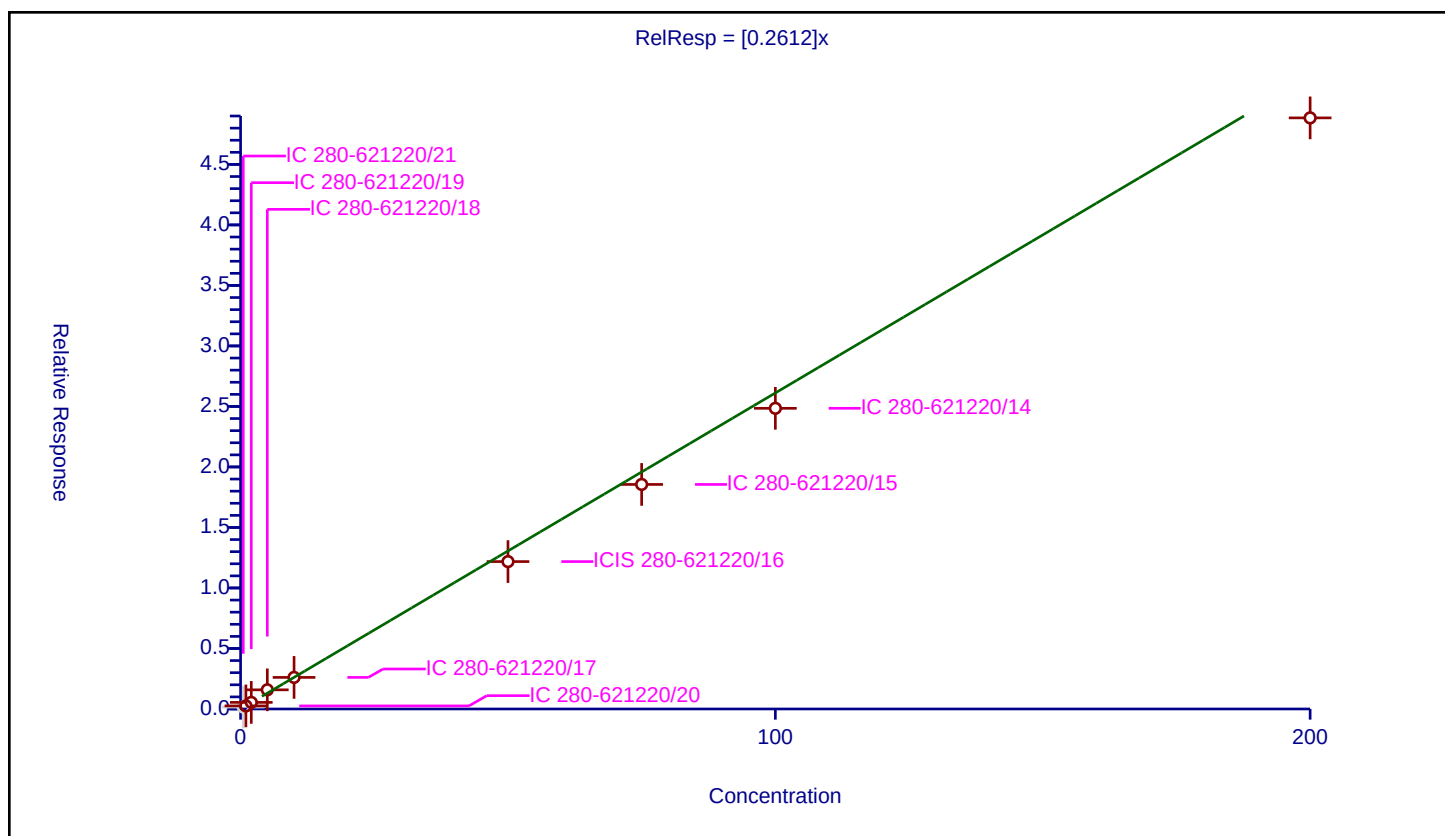
Curve Coefficients

Intercept: 0
 Slope: 0.2612

Error Coefficients

Standard Error: 998000
 Relative Standard Error: 9.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.160712	50.0	2022878.0	0.321423	N
2	IC 280-621220/20	1.0	0.255035	50.0	2130300.0	0.255035	Y
3	IC 280-621220/19	2.0	0.546113	50.0	2179494.0	0.273056	Y
4	IC 280-621220/18	5.0	1.582336	50.0	2161519.0	0.316467	Y
5	IC 280-621220/17	10.0	2.609522	50.0	2216038.0	0.260952	Y
6	ICIS 280-621220/16	50.0	12.180756	50.0	2317582.0	0.243615	Y
7	IC 280-621220/15	75.0	18.555469	50.0	2262624.0	0.247406	Y
8	IC 280-621220/14	100.0	24.846211	50.0	2263977.0	0.248462	Y
9	IC 280-621220/13	200.0	48.845303	50.0	2209843.0	0.244227	Y



Calibration

/ 2-Methyl-2-propanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

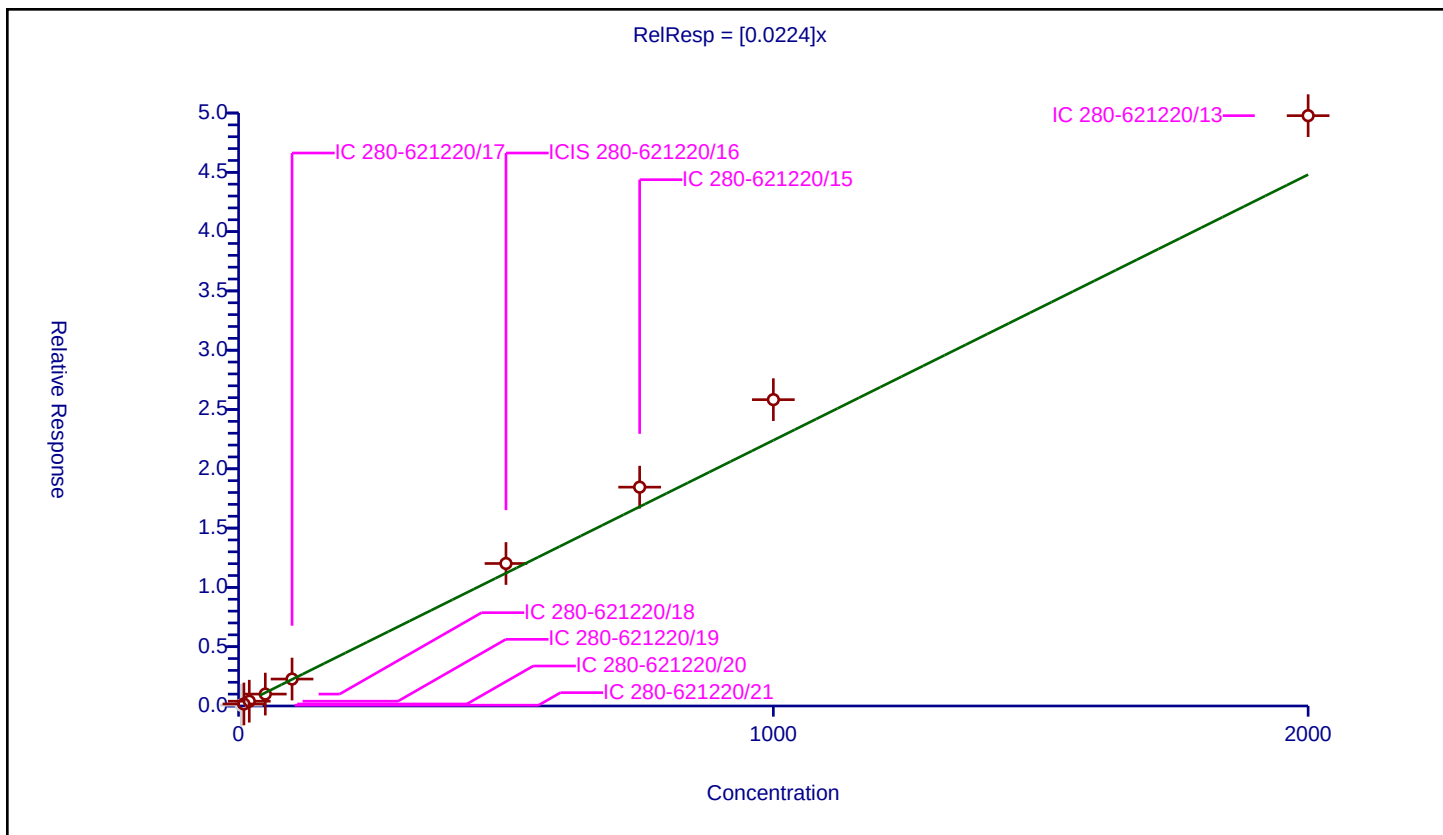
Curve Coefficients

Intercept: 0
 Slope: 0.0224

Error Coefficients

Standard Error: 1020000
 Relative Standard Error: 13.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	5.0	0.068936	50.0	2022878.0	0.013787	N
2	IC 280-621220/20	10.0	0.169061	50.0	2130300.0	0.016906	Y
3	IC 280-621220/19	20.0	0.403419	50.0	2179494.0	0.020171	Y
4	IC 280-621220/18	50.0	1.003715	50.0	2161519.0	0.020074	Y
5	IC 280-621220/17	100.0	2.271554	50.0	2216038.0	0.022716	Y
6	ICIS 280-621220/16	500.0	12.014505	50.0	2317582.0	0.024029	Y
7	IC 280-621220/15	750.0	18.453663	50.0	2262624.0	0.024605	Y
8	IC 280-621220/14	1000.0	25.830629	50.0	2263977.0	0.025831	Y
9	IC 280-621220/13	2000.0	49.776319	50.0	2209843.0	0.024888	Y



Calibration

/ Acrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

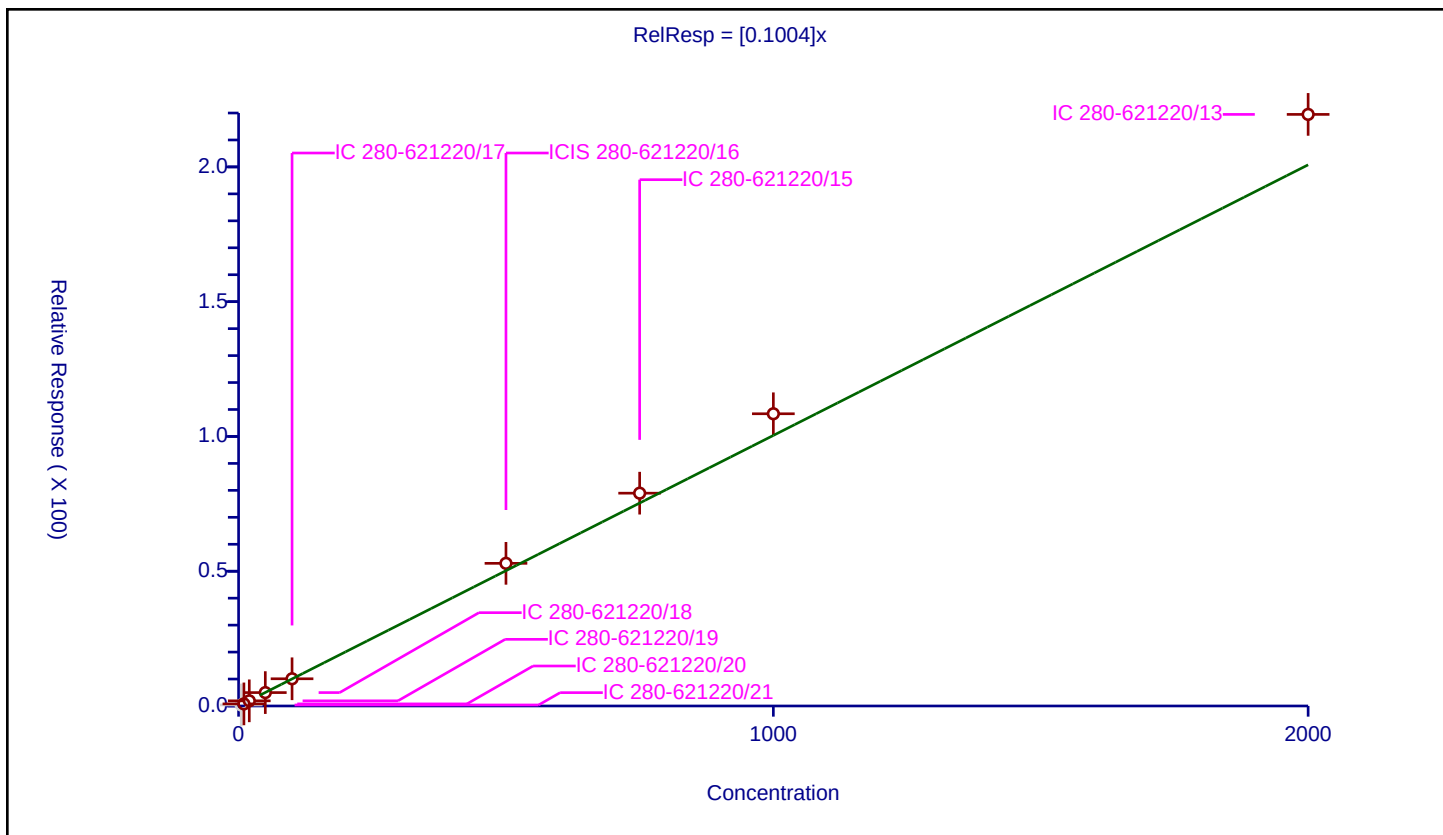
Curve Coefficients

Intercept: 0
 Slope: 0.1004

Error Coefficients

Standard Error: 4430000
 Relative Standard Error: 10.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	5.0	0.380646	50.0	2022878.0	0.076129	N
2	IC 280-621220/20	10.0	0.776792	50.0	2130300.0	0.077679	Y
3	IC 280-621220/19	20.0	1.91338	50.0	2179494.0	0.095669	Y
4	IC 280-621220/18	50.0	4.975459	50.0	2161519.0	0.099509	Y
5	IC 280-621220/17	100.0	10.095833	50.0	2216038.0	0.100958	Y
6	ICIS 280-621220/16	500.0	52.925074	50.0	2317582.0	0.10585	Y
7	IC 280-621220/15	750.0	78.953374	50.0	2262624.0	0.105271	Y
8	IC 280-621220/14	1000.0	108.419432	50.0	2263977.0	0.108419	Y
9	IC 280-621220/13	2000.0	219.488715	50.0	2209843.0	0.109744	Y



Calibration

/ Methyl tert-butyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

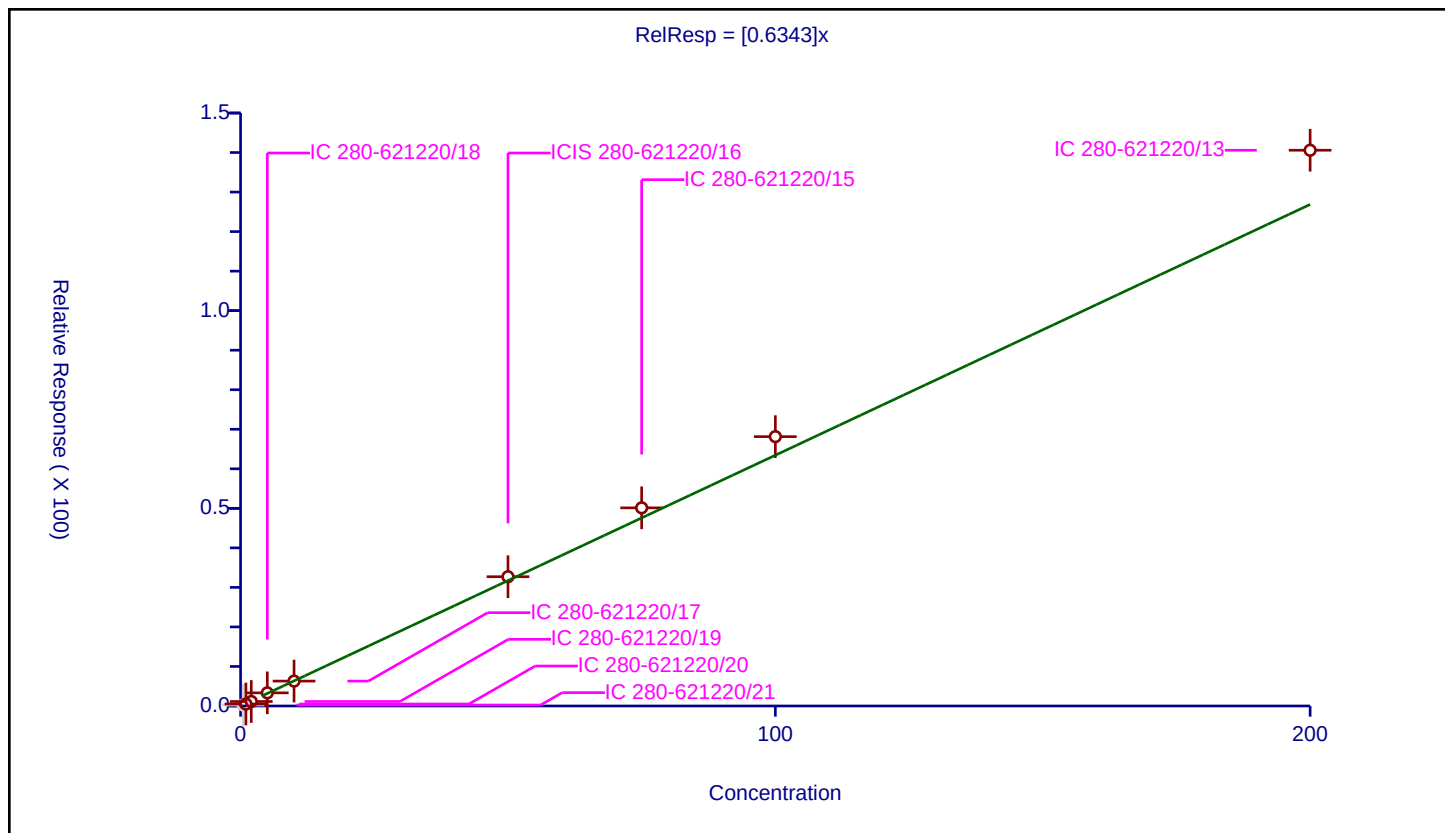
Curve Coefficients

Intercept: 0
 Slope: 0.6343

Error Coefficients

Standard Error: 2820000
 Relative Standard Error: 10.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.24784	50.0	2022878.0	0.49568	N
2	IC 280-621220/20	1.0	0.504459	50.0	2130300.0	0.504459	Y
3	IC 280-621220/19	2.0	1.139485	50.0	2179494.0	0.569742	Y
4	IC 280-621220/18	5.0	3.320605	50.0	2161519.0	0.664121	Y
5	IC 280-621220/17	10.0	6.298719	50.0	2216038.0	0.629872	Y
6	ICIS 280-621220/16	50.0	32.69798	50.0	2317582.0	0.65396	Y
7	IC 280-621220/15	75.0	50.125275	50.0	2262624.0	0.668337	Y
8	IC 280-621220/14	100.0	68.137751	50.0	2263977.0	0.681378	Y
9	IC 280-621220/13	200.0	140.581706	50.0	2209843.0	0.702909	Y



Calibration

/ trans-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

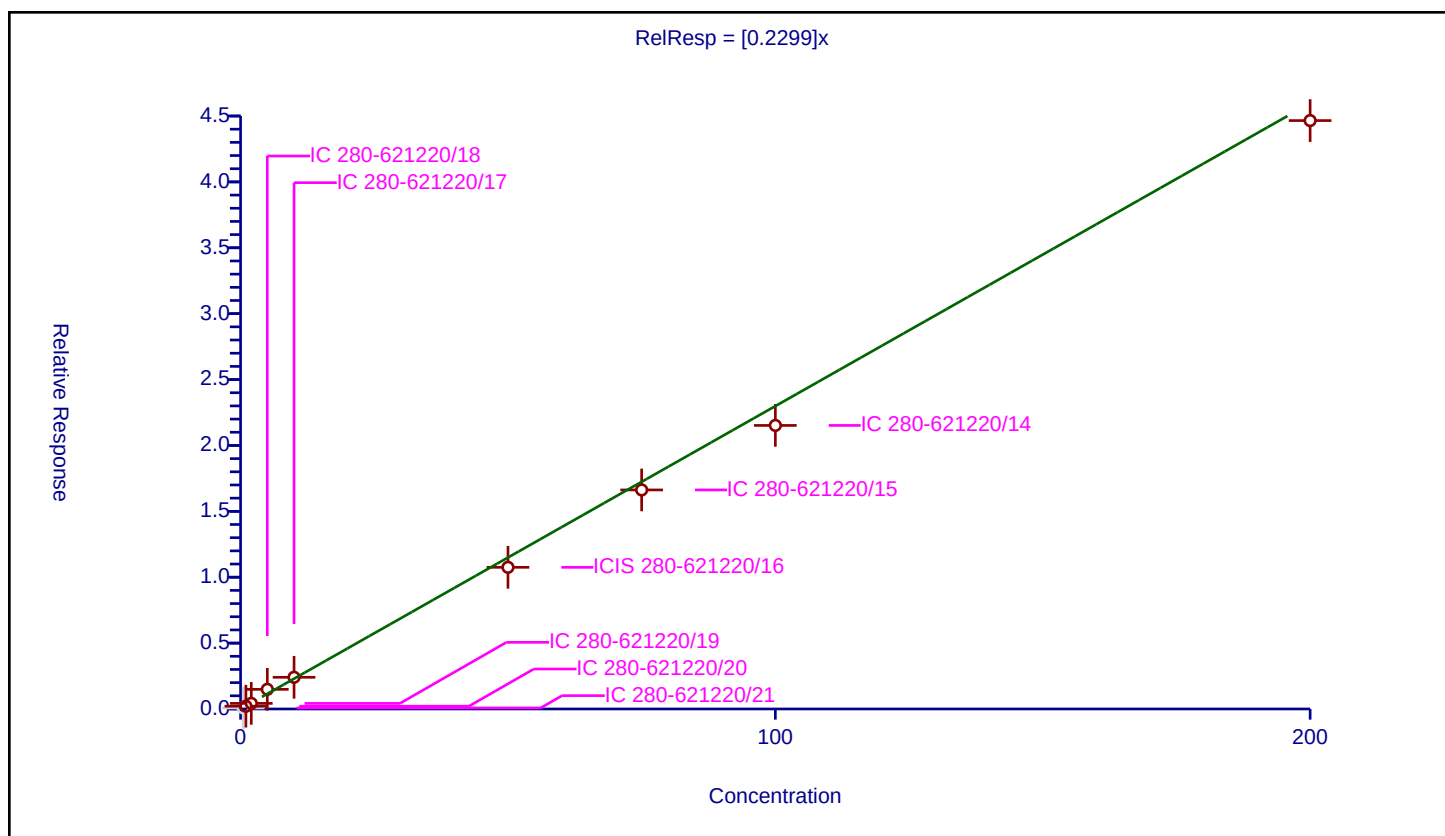
Curve Coefficients

Intercept: 0
Slope: 0.2299

Error Coefficients

Standard Error: 900000
Relative Standard Error: 12.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.079911	50.0	2022878.0	0.159822	N
2	IC 280-621220/20	1.0	0.211731	50.0	2130300.0	0.211731	Y
3	IC 280-621220/19	2.0	0.42659	50.0	2179494.0	0.213295	Y
4	IC 280-621220/18	5.0	1.490896	50.0	2161519.0	0.298179	Y
5	IC 280-621220/17	10.0	2.406141	50.0	2216038.0	0.240614	Y
6	ICIS 280-621220/16	50.0	10.751313	50.0	2317582.0	0.215026	Y
7	IC 280-621220/15	75.0	16.624083	50.0	2262624.0	0.221654	Y
8	IC 280-621220/14	100.0	21.519278	50.0	2263977.0	0.215193	Y
9	IC 280-621220/13	200.0	44.654598	50.0	2209843.0	0.223273	Y



Calibration

/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

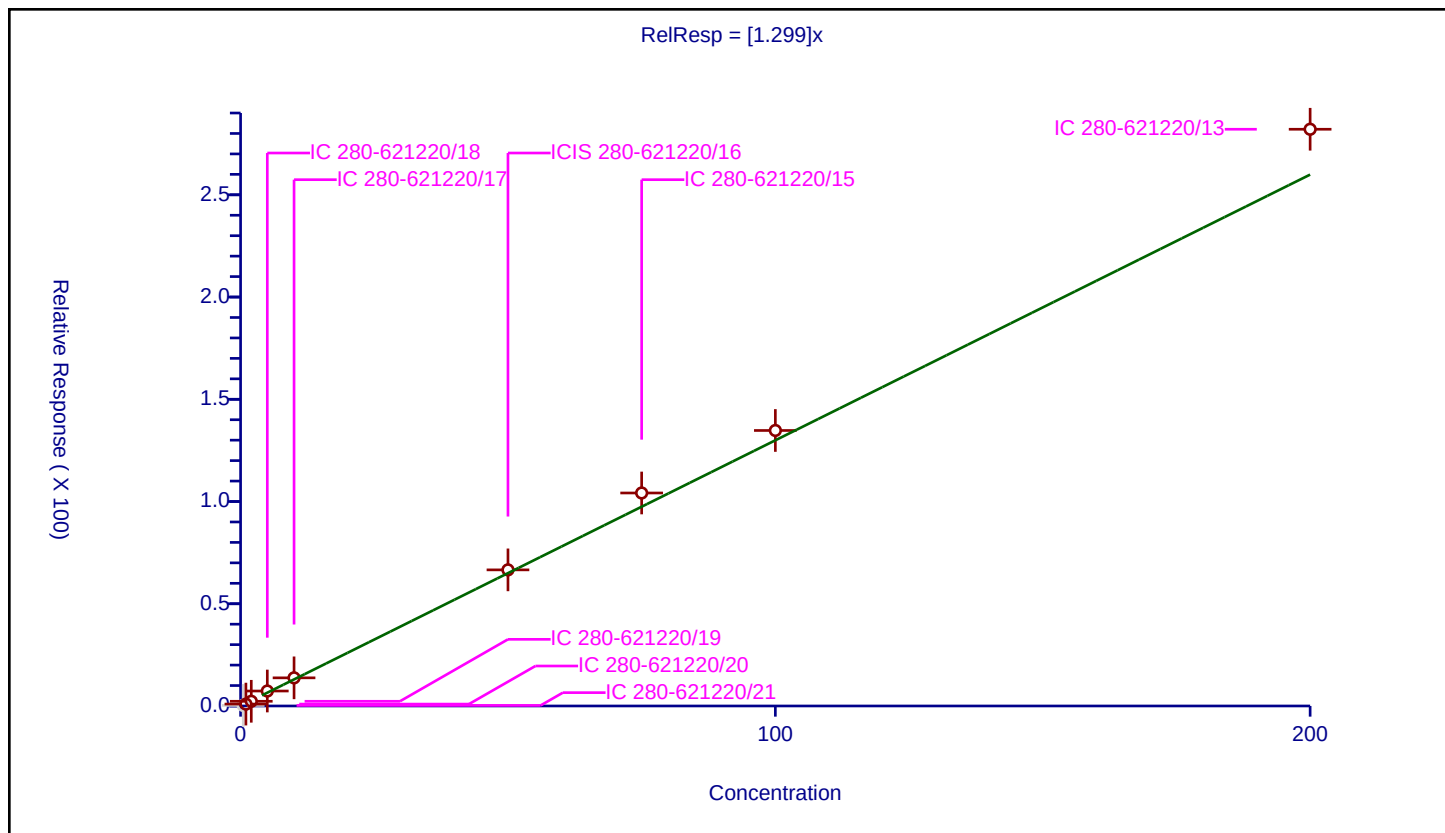
Curve Coefficients

Intercept: 0
Slope: 1.299

Error Coefficients

Standard Error: 1460000
Relative Standard Error: 13.6
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.284121	50.0	492571.0	0.568243	N
2	IC 280-621220/20	1.0	0.92718	50.0	515326.0	0.92718	Y
3	IC 280-621220/19	2.0	2.298311	50.0	532739.0	1.149156	Y
4	IC 280-621220/18	5.0	7.319276	50.0	530920.0	1.463855	Y
5	IC 280-621220/17	10.0	13.768219	50.0	540571.0	1.376822	Y
6	ICIS 280-621220/16	50.0	66.565761	50.0	571323.0	1.331315	Y
7	IC 280-621220/15	75.0	104.173481	50.0	573514.0	1.38898	Y
8	IC 280-621220/14	100.0	134.736362	50.0	570801.0	1.347364	Y
9	IC 280-621220/13	200.0	282.060139	50.0	574369.0	1.410301	Y



Calibration

/ Vinyl acetate

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

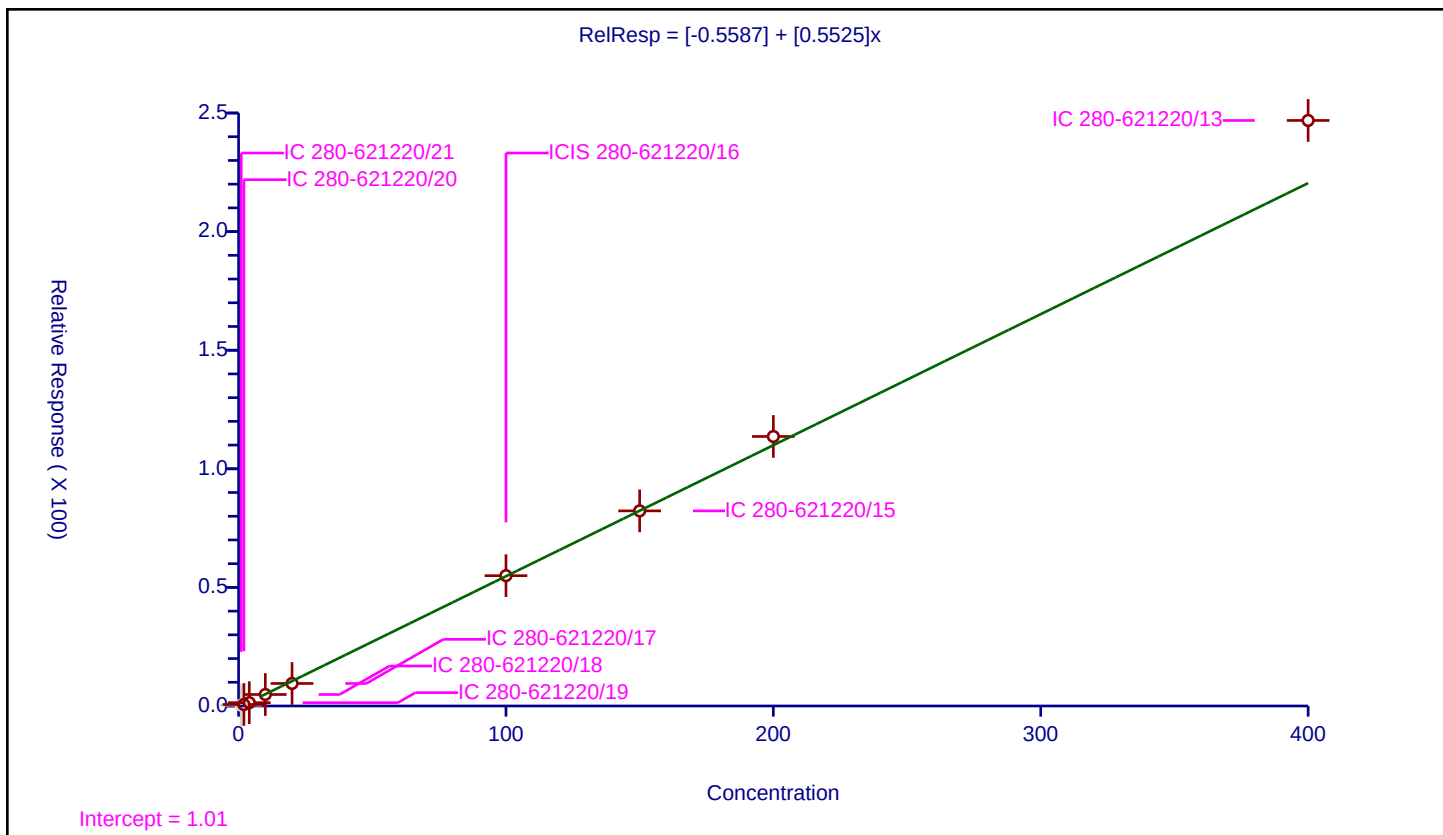
Curve Coefficients

Intercept: -0.5587
Slope: 0.5525

Error Coefficients

Standard Error: 5260000
Relative Standard Error: 8.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	1.0	0.368584	50.0	2022878.0	0.368584	N
2	IC 280-621220/20	2.0	0.622213	50.0	2130300.0	0.311106	Y
3	IC 280-621220/19	4.0	1.403835	50.0	2179494.0	0.350959	Y
4	IC 280-621220/18	10.0	4.83683	50.0	2161519.0	0.483683	Y
5	IC 280-621220/17	20.0	9.498483	50.0	2216038.0	0.474924	Y
6	ICIS 280-621220/16	100.0	54.941163	50.0	2317582.0	0.549412	Y
7	IC 280-621220/15	150.0	82.260972	50.0	2262624.0	0.548406	Y
8	IC 280-621220/14	200.0	113.624299	50.0	2263977.0	0.568121	Y
9	IC 280-621220/13	400.0	246.86342	50.0	2209843.0	0.617159	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

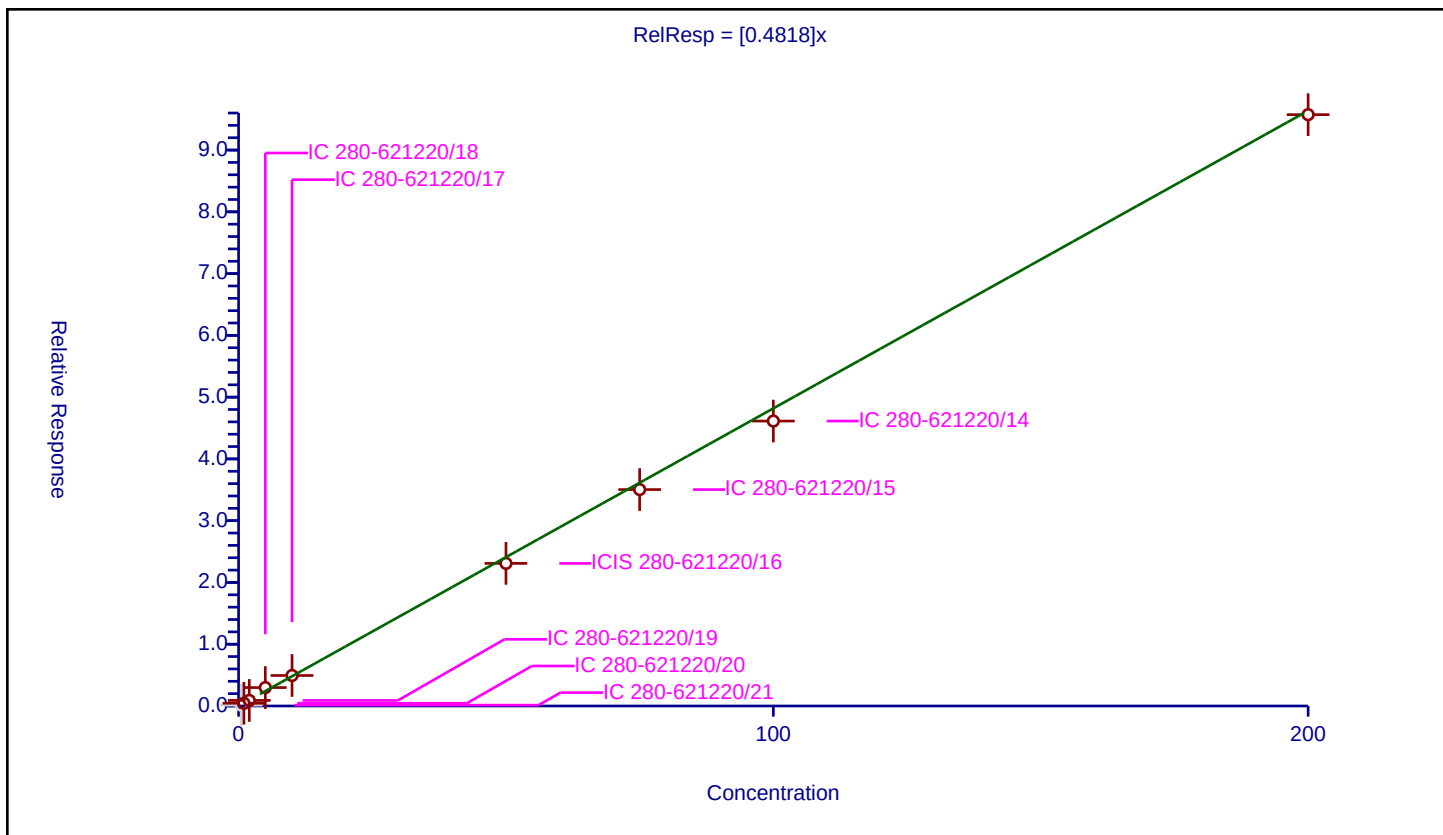
Curve Coefficients

Intercept: 0
 Slope: 0.4818

Error Coefficients

Standard Error: 1930000
 Relative Standard Error: 10.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.138862	50.0	2022878.0	0.277723	N
2	IC 280-621220/20	1.0	0.446087	50.0	2130300.0	0.446087	Y
3	IC 280-621220/19	2.0	0.8992	50.0	2179494.0	0.4496	Y
4	IC 280-621220/18	5.0	2.982972	50.0	2161519.0	0.596594	Y
5	IC 280-621220/17	10.0	4.937077	50.0	2216038.0	0.493708	Y
6	ICIS 280-621220/16	50.0	23.085267	50.0	2317582.0	0.461705	Y
7	IC 280-621220/15	75.0	35.035119	50.0	2262624.0	0.467135	Y
8	IC 280-621220/14	100.0	46.126264	50.0	2263977.0	0.461263	Y
9	IC 280-621220/13	200.0	95.736394	50.0	2209843.0	0.478682	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

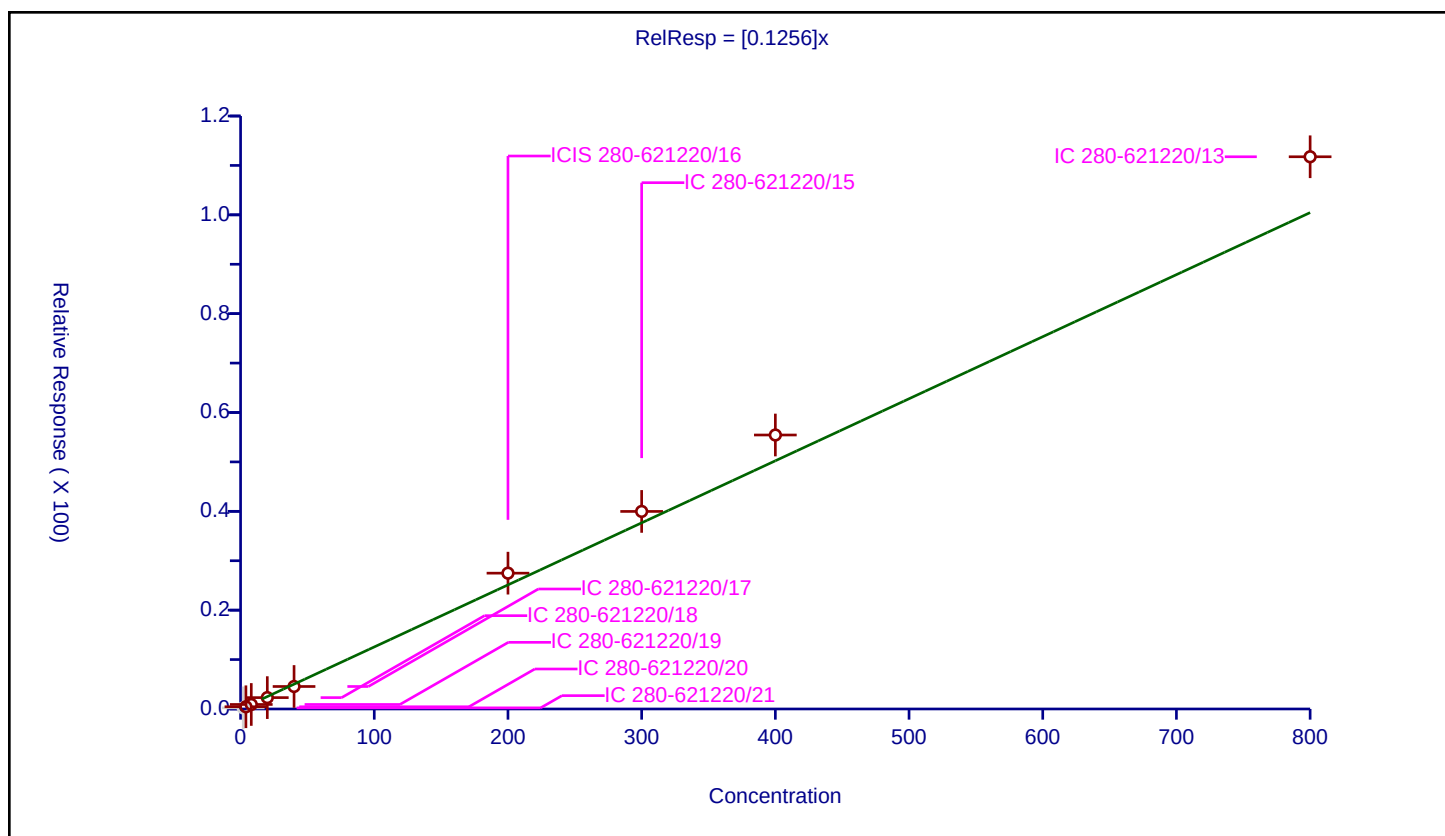
Curve Coefficients

Intercept: 0
 Slope: 0.1256

Error Coefficients

Standard Error: 2260000
 Relative Standard Error: 10.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	2.0	0.22688	50.0	2022878.0	0.11344	N
2	IC 280-621220/20	4.0	0.450195	50.0	2130300.0	0.112549	Y
3	IC 280-621220/19	8.0	0.912872	50.0	2179494.0	0.114109	Y
4	IC 280-621220/18	20.0	2.300119	50.0	2161519.0	0.115006	Y
5	IC 280-621220/17	40.0	4.553239	50.0	2216038.0	0.113831	Y
6	ICIS 280-621220/16	200.0	27.489729	50.0	2317582.0	0.137449	Y
7	IC 280-621220/15	300.0	39.981566	50.0	2262624.0	0.133272	Y
8	IC 280-621220/14	400.0	55.445241	50.0	2263977.0	0.138613	Y
9	IC 280-621220/13	800.0	111.753278	50.0	2209843.0	0.139692	Y



Calibration

/ cis-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

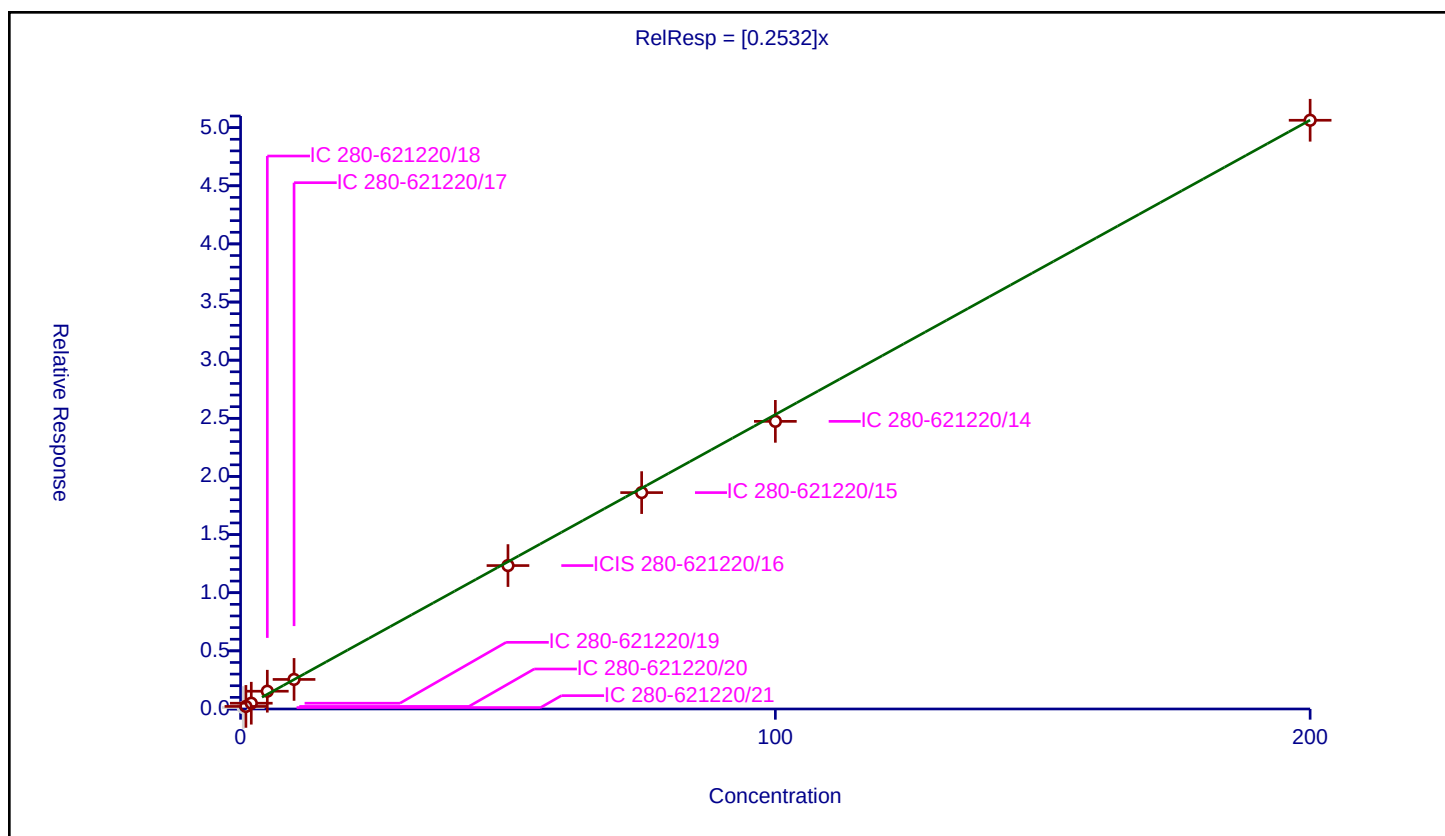
Curve Coefficients

Intercept: 0
Slope: 0.2532

Error Coefficients

Standard Error: 1020000
Relative Standard Error: 9.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.124006	50.0	2022878.0	0.248013	N
2	IC 280-621220/20	1.0	0.222222	50.0	2130300.0	0.222222	Y
3	IC 280-621220/19	2.0	0.496514	50.0	2179494.0	0.248257	Y
4	IC 280-621220/18	5.0	1.528555	50.0	2161519.0	0.305711	Y
5	IC 280-621220/17	10.0	2.542962	50.0	2216038.0	0.254296	Y
6	ICIS 280-621220/16	50.0	12.33678	50.0	2317582.0	0.246736	Y
7	IC 280-621220/15	75.0	18.611908	50.0	2262624.0	0.248159	Y
8	IC 280-621220/14	100.0	24.738105	50.0	2263977.0	0.247381	Y
9	IC 280-621220/13	200.0	50.634887	50.0	2209843.0	0.253174	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

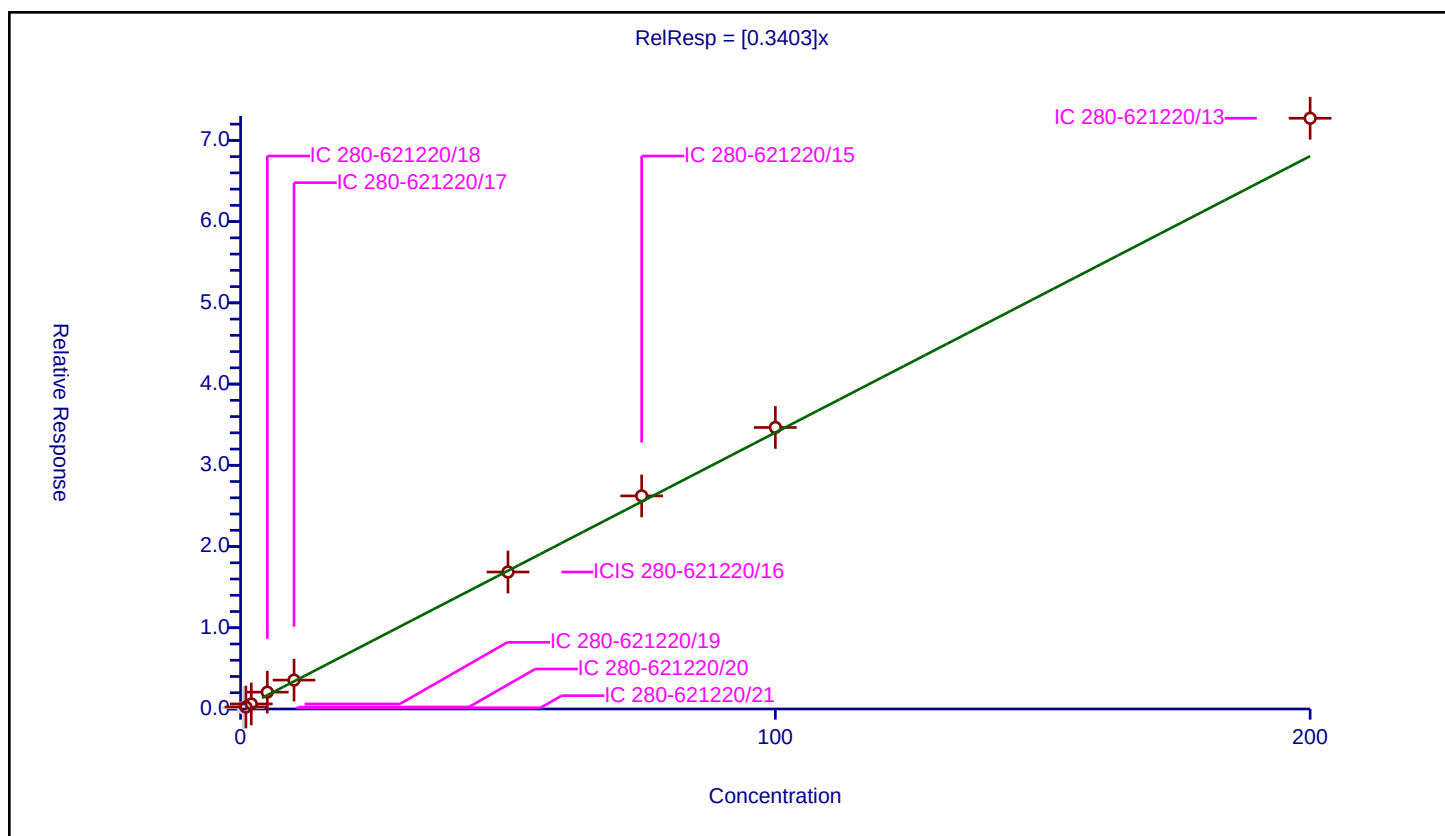
Curve Coefficients

Intercept: 0
Slope: 0.3403

Error Coefficients

Standard Error: 1460000
Relative Standard Error: 14.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.156683	50.0	2022878.0	0.313365	N
2	IC 280-621220/20	1.0	0.243463	50.0	2130300.0	0.243463	Y
3	IC 280-621220/19	2.0	0.623402	50.0	2179494.0	0.311701	Y
4	IC 280-621220/18	5.0	2.072131	50.0	2161519.0	0.414426	Y
5	IC 280-621220/17	10.0	3.556956	50.0	2216038.0	0.355696	Y
6	ICIS 280-621220/16	50.0	16.861669	50.0	2317582.0	0.337233	Y
7	IC 280-621220/15	75.0	26.230364	50.0	2262624.0	0.349738	Y
8	IC 280-621220/14	100.0	34.656271	50.0	2263977.0	0.346563	Y
9	IC 280-621220/13	200.0	72.724782	50.0	2209843.0	0.363624	Y



Calibration

/ sec-Butyl Alcohol

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

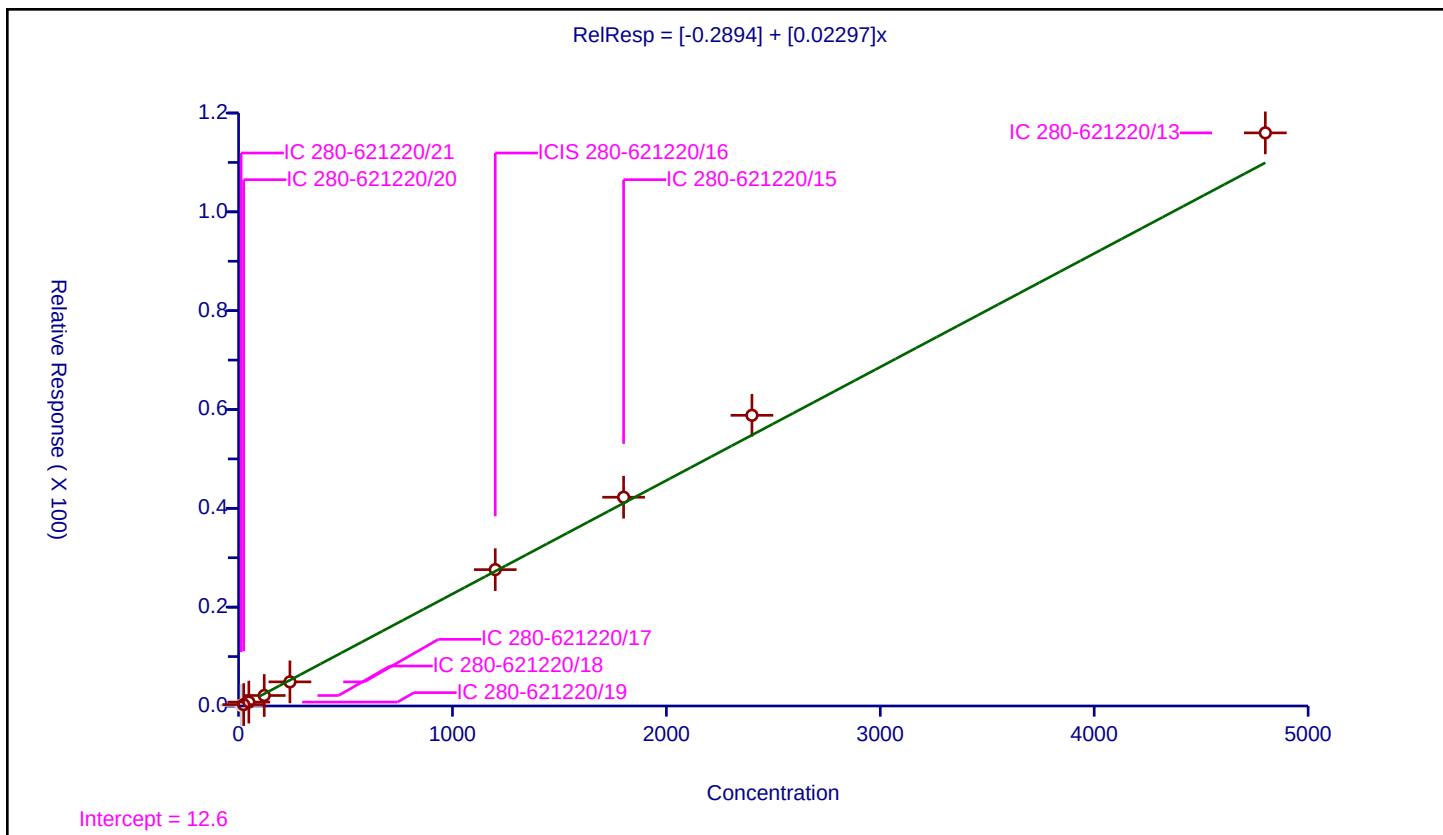
Curve Coefficients

Intercept: -0.2894
 Slope: 0.02297

Error Coefficients

Standard Error: 2540000
 Relative Standard Error: 7.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	12.0	0.13461	50.0	2022878.0	0.011218	N
2	IC 280-621220/20	24.0	0.283974	50.0	2130300.0	0.011832	Y
3	IC 280-621220/19	48.0	0.789197	50.0	2179494.0	0.016442	Y
4	IC 280-621220/18	120.0	2.122211	50.0	2161519.0	0.017685	Y
5	IC 280-621220/17	240.0	4.879677	50.0	2216038.0	0.020332	Y
6	ICIS 280-621220/16	1200.0	27.596844	50.0	2317582.0	0.022997	Y
7	IC 280-621220/15	1800.0	42.247033	50.0	2262624.0	0.023471	Y
8	IC 280-621220/14	2400.0	58.825686	50.0	2263977.0	0.024511	Y
9	IC 280-621220/13	4800.0	115.98023	50.0	2209843.0	0.024163	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

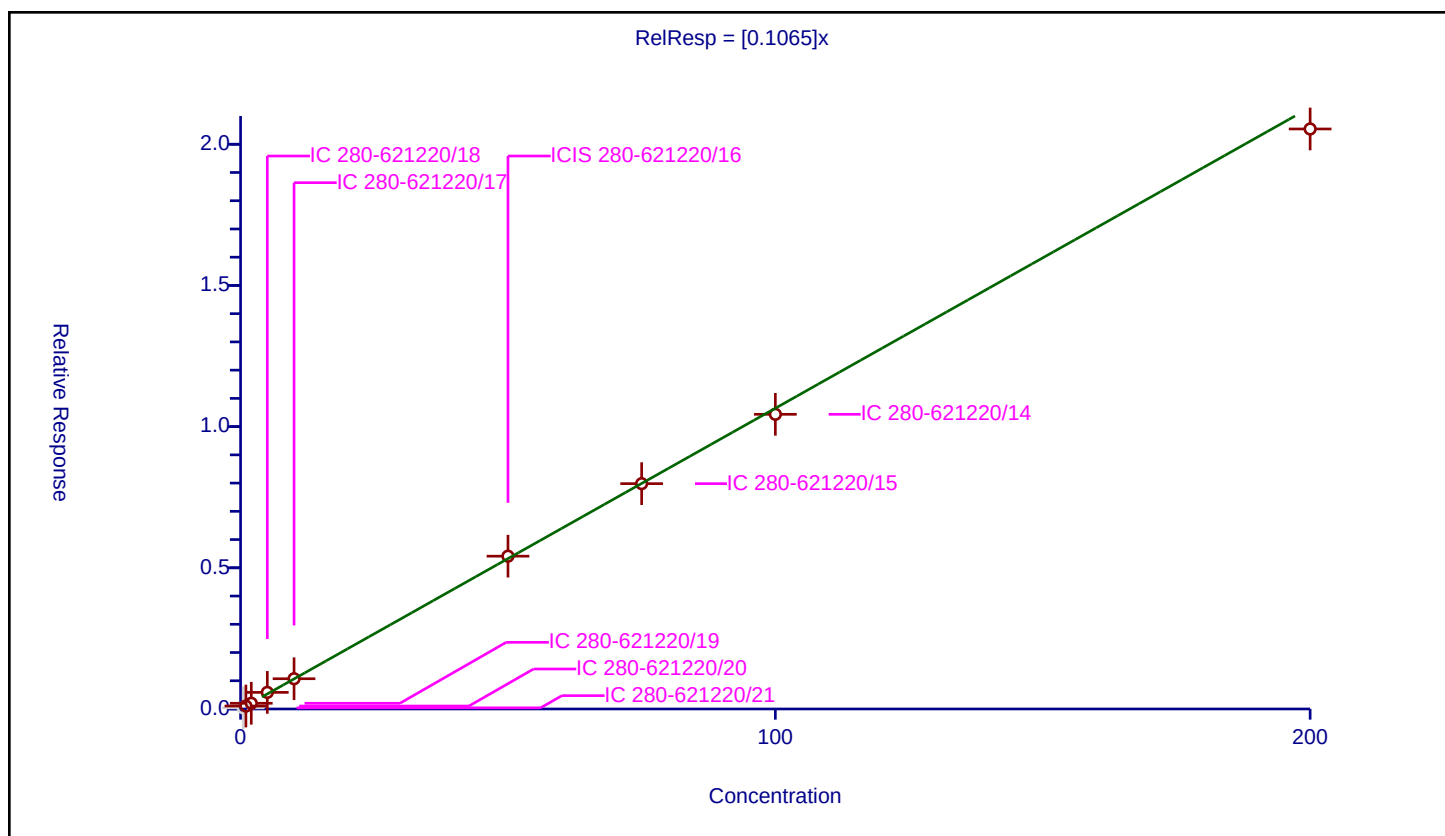
Curve Coefficients

Intercept: 0
Slope: 0.1065

Error Coefficients

Standard Error: 422000
Relative Standard Error: 4.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.040734	50.0	2022878.0	0.081468	N
2	IC 280-621220/20	1.0	0.104445	50.0	2130300.0	0.104445	Y
3	IC 280-621220/19	2.0	0.202593	50.0	2179494.0	0.101296	Y
4	IC 280-621220/18	5.0	0.587504	50.0	2161519.0	0.117501	Y
5	IC 280-621220/17	10.0	1.071011	50.0	2216038.0	0.107101	Y
6	ICIS 280-621220/16	50.0	5.412236	50.0	2317582.0	0.108245	Y
7	IC 280-621220/15	75.0	7.98027	50.0	2262624.0	0.106404	Y
8	IC 280-621220/14	100.0	10.435618	50.0	2263977.0	0.104356	Y
9	IC 280-621220/13	200.0	20.541256	50.0	2209843.0	0.102706	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

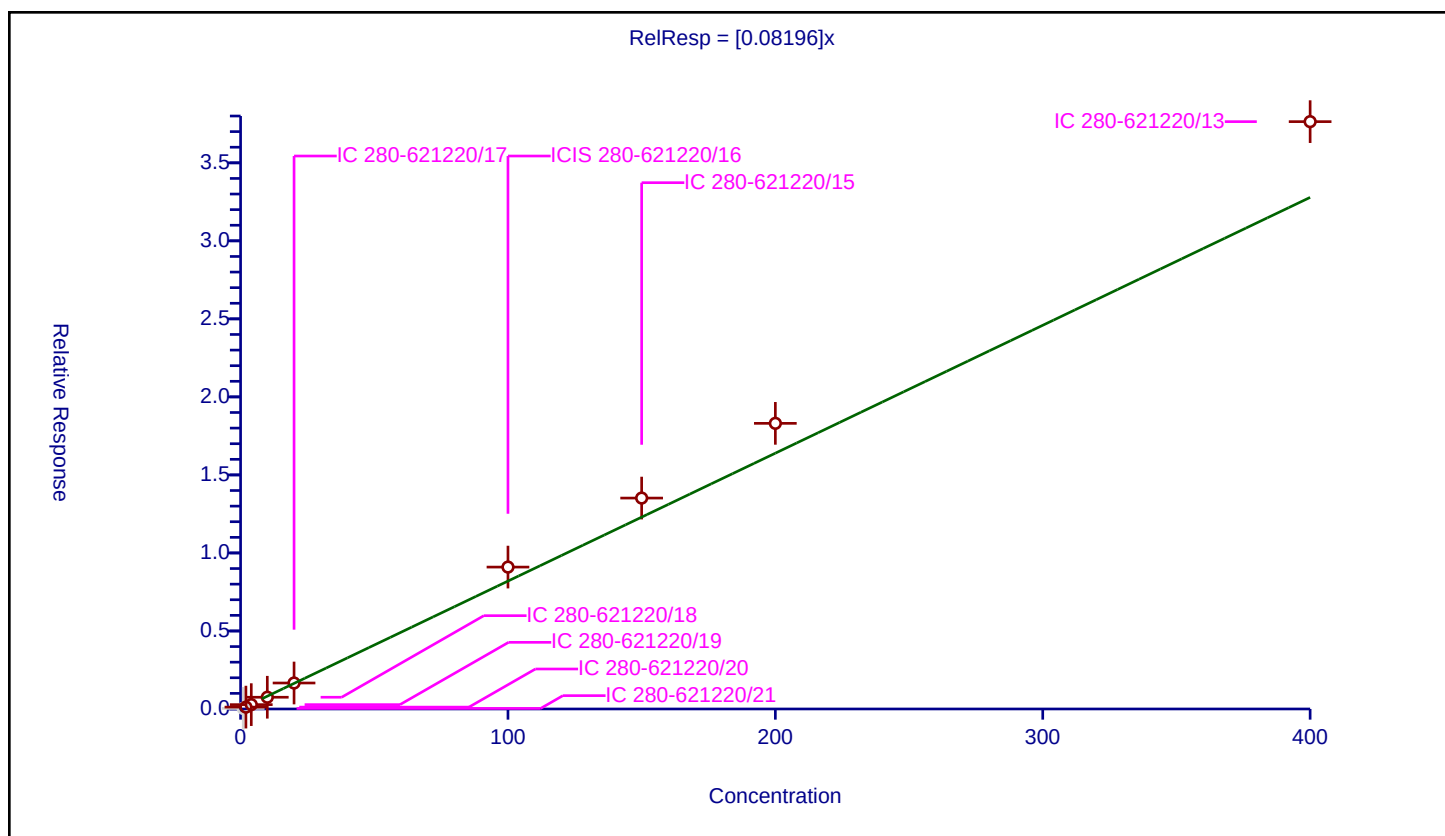
Curve Coefficients

Intercept: 0
Slope: 0.08196

Error Coefficients

Standard Error: 757000
Relative Standard Error: 14.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	1.0	0.037372	50.0	2022878.0	0.037372	N
2	IC 280-621220/20	2.0	0.12111	50.0	2130300.0	0.060555	Y
3	IC 280-621220/19	4.0	0.27995	50.0	2179494.0	0.069988	Y
4	IC 280-621220/18	10.0	0.752203	50.0	2161519.0	0.07522	Y
5	IC 280-621220/17	20.0	1.665247	50.0	2216038.0	0.083262	Y
6	ICIS 280-621220/16	100.0	9.0934	50.0	2317582.0	0.090934	Y
7	IC 280-621220/15	150.0	13.516519	50.0	2262624.0	0.09011	Y
8	IC 280-621220/14	200.0	18.305398	50.0	2263977.0	0.091527	Y
9	IC 280-621220/13	400.0	37.638986	50.0	2209843.0	0.094097	Y



Calibration

/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

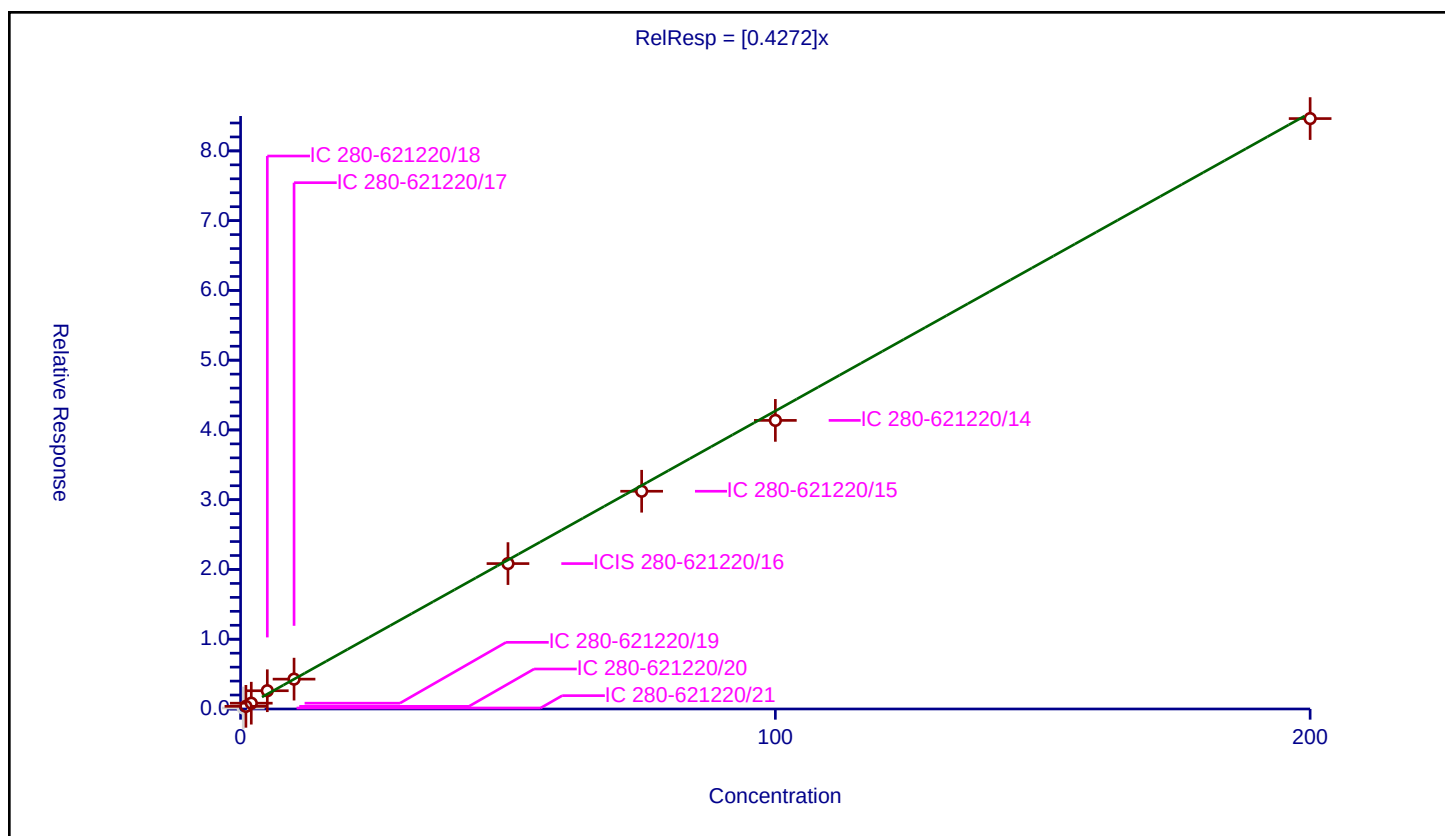
Curve Coefficients

Intercept: 0
Slope: 0.4272

Error Coefficients

Standard Error: 1710000
Relative Standard Error: 9.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.14294	50.0	2022878.0	0.28588	N
2	IC 280-621220/20	1.0	0.380815	50.0	2130300.0	0.380815	Y
3	IC 280-621220/19	2.0	0.831432	50.0	2179494.0	0.415716	Y
4	IC 280-621220/18	5.0	2.615036	50.0	2161519.0	0.523007	Y
5	IC 280-621220/17	10.0	4.281041	50.0	2216038.0	0.428104	Y
6	ICIS 280-621220/16	50.0	20.844311	50.0	2317582.0	0.416886	Y
7	IC 280-621220/15	75.0	31.214024	50.0	2262624.0	0.416187	Y
8	IC 280-621220/14	100.0	41.367735	50.0	2263977.0	0.413677	Y
9	IC 280-621220/13	200.0	84.632076	50.0	2209843.0	0.42316	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

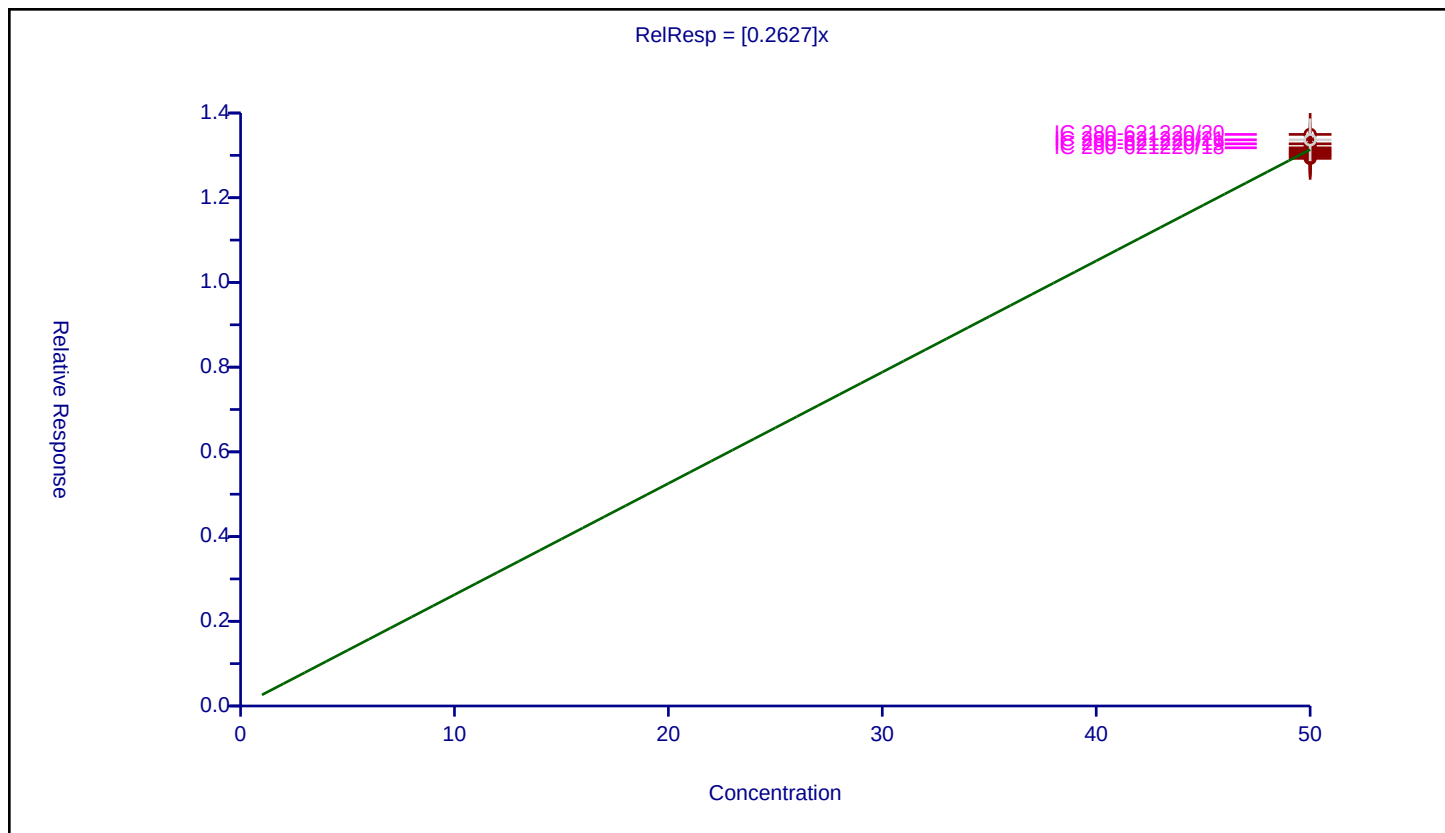
Curve Coefficients

Intercept: 0
 Slope: 0.2627

Error Coefficients

Standard Error: 623000
 Relative Standard Error: 1.4
 Correlation Coefficient: 0
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/13	50.0	12.986239	50.0	2209843.0	0.259725	Y
2	IC 280-621220/14	50.0	12.92882	50.0	2263977.0	0.258576	Y
3	IC 280-621220/15	50.0	13.074996	50.0	2262624.0	0.2615	Y
4	ICIS 280-621220/16	50.0	13.029766	50.0	2317582.0	0.260595	Y
5	IC 280-621220/17	50.0	13.125384	50.0	2216038.0	0.262508	Y
6	IC 280-621220/18	50.0	13.178348	50.0	2161519.0	0.263567	Y
7	IC 280-621220/19	50.0	13.27276	50.0	2179494.0	0.265455	Y
8	IC 280-621220/20	50.0	13.495071	50.0	2130300.0	0.269901	Y
9	IC 280-621220/21	50.0	13.367044	50.0	2022878.0	0.267341	N



Calibration

/ 1,1,1-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

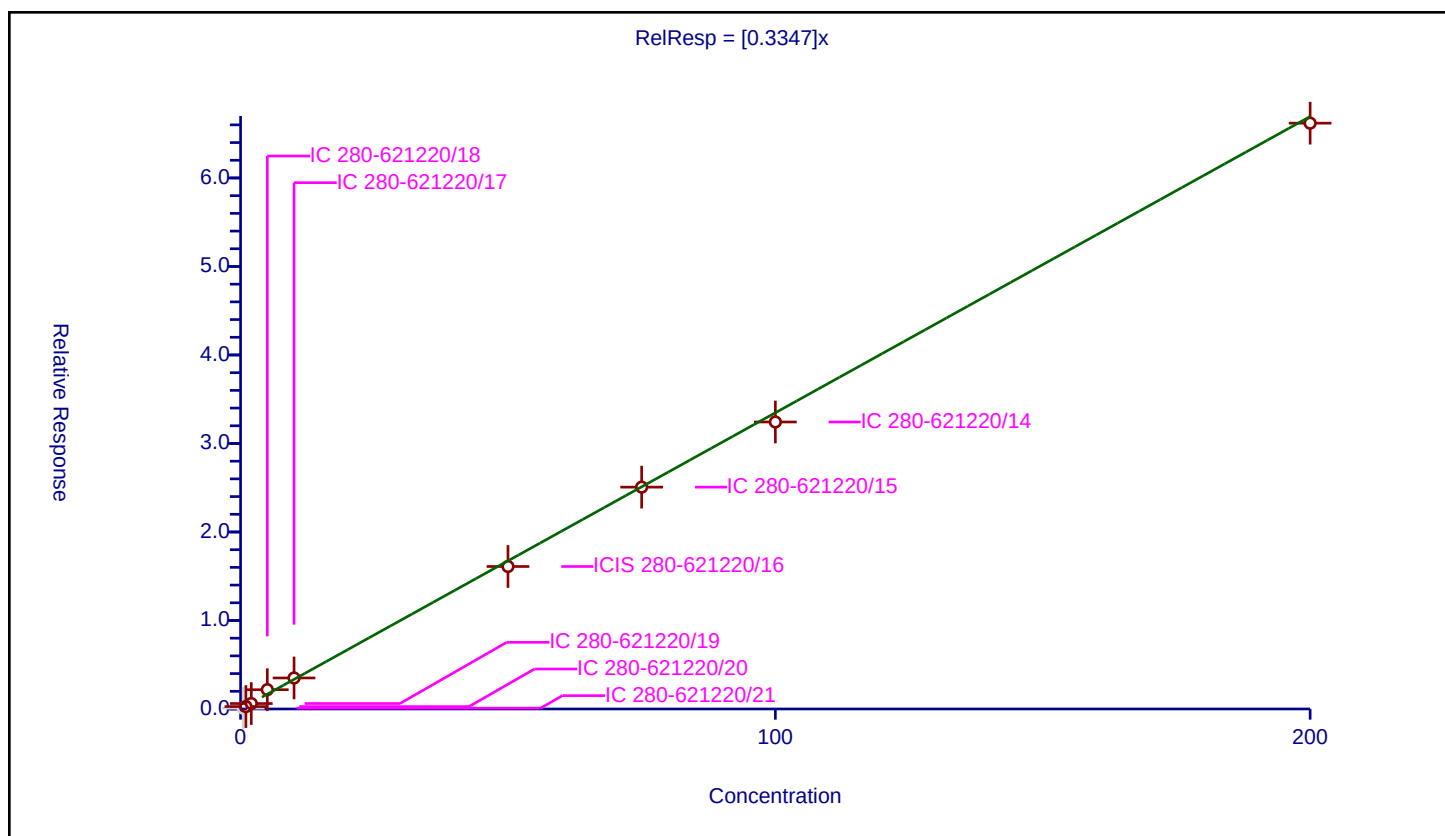
Curve Coefficients

Intercept: 0
 Slope: 0.3347

Error Coefficients

Standard Error: 1340000
 Relative Standard Error: 14.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.096397	50.0	2022878.0	0.192795	N
2	IC 280-621220/20	1.0	0.271746	50.0	2130300.0	0.271746	Y
3	IC 280-621220/19	2.0	0.615441	50.0	2179494.0	0.307721	Y
4	IC 280-621220/18	5.0	2.180781	50.0	2161519.0	0.436156	Y
5	IC 280-621220/17	10.0	3.5054	50.0	2216038.0	0.35054	Y
6	ICIS 280-621220/16	50.0	16.101135	50.0	2317582.0	0.322023	Y
7	IC 280-621220/15	75.0	25.0674	50.0	2262624.0	0.334232	Y
8	IC 280-621220/14	100.0	32.428112	50.0	2263977.0	0.324281	Y
9	IC 280-621220/13	200.0	66.193209	50.0	2209843.0	0.330966	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

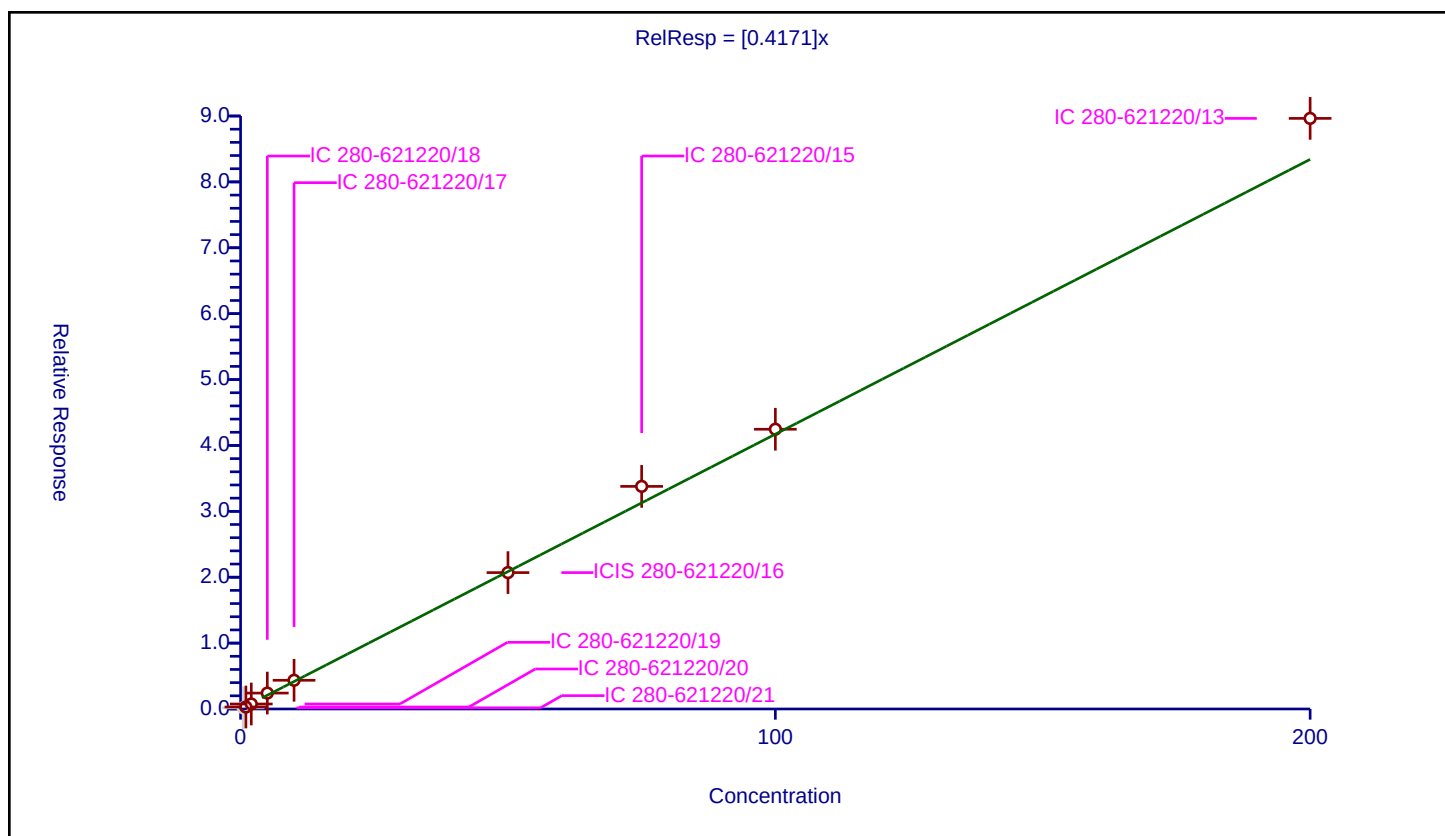
Curve Coefficients

Intercept: 0
Slope: 0.4171

Error Coefficients

Standard Error: 1800000
Relative Standard Error: 13.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.180807	50.0	2022878.0	0.361614	N
2	IC 280-621220/20	1.0	0.300169	50.0	2130300.0	0.300169	Y
3	IC 280-621220/19	2.0	0.760796	50.0	2179494.0	0.380398	Y
4	IC 280-621220/18	5.0	2.415894	50.0	2161519.0	0.483179	Y
5	IC 280-621220/17	10.0	4.357484	50.0	2216038.0	0.435748	Y
6	ICIS 280-621220/16	50.0	20.70108	50.0	2317582.0	0.414022	Y
7	IC 280-621220/15	75.0	33.786303	50.0	2262624.0	0.450484	Y
8	IC 280-621220/14	100.0	42.457587	50.0	2263977.0	0.424576	Y
9	IC 280-621220/13	200.0	89.641481	50.0	2209843.0	0.448207	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

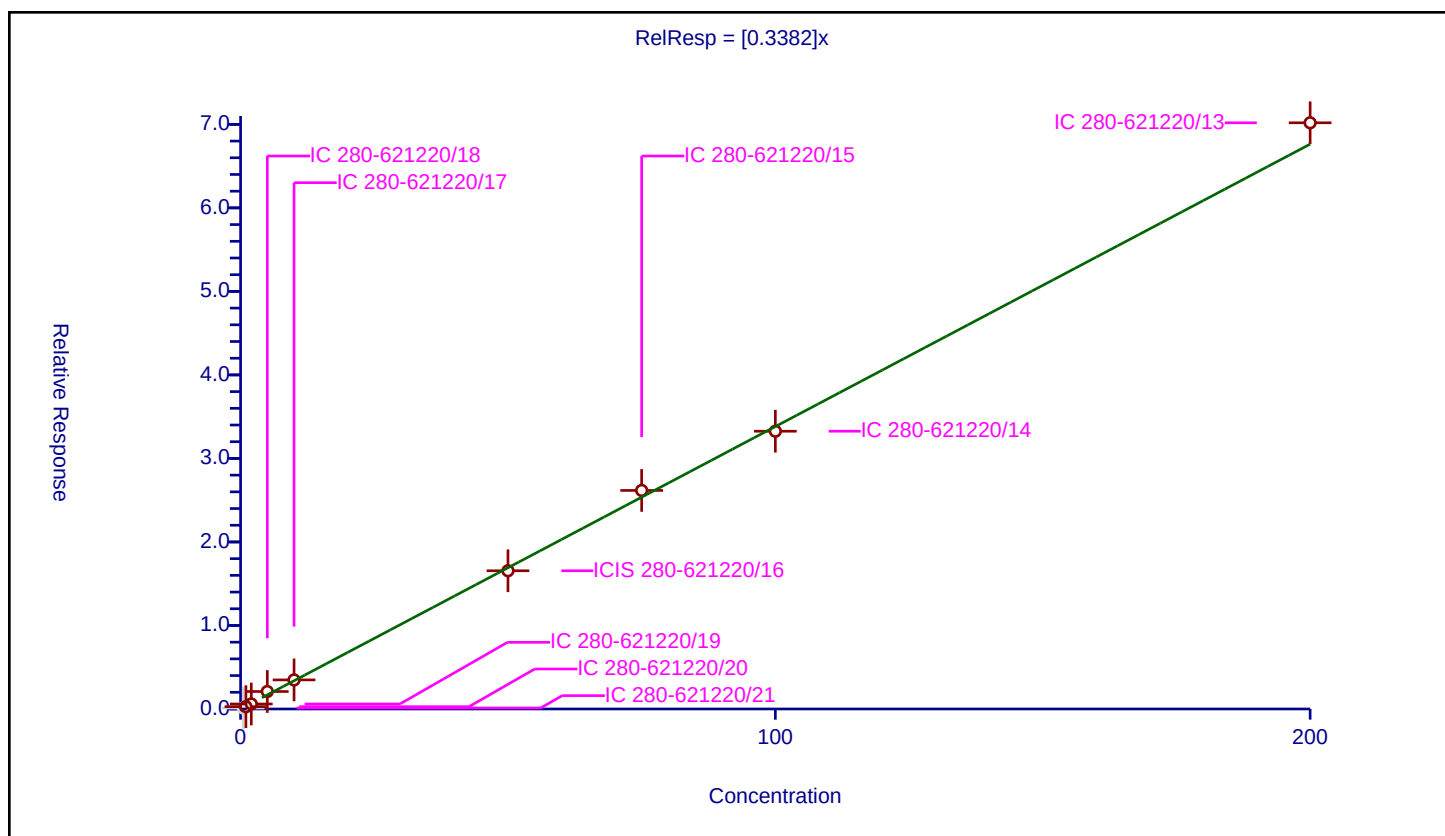
Curve Coefficients

Intercept: 0
Slope: 0.3382

Error Coefficients

Standard Error: 1410000
Relative Standard Error: 12.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.119656	50.0	2022878.0	0.239313	N
2	IC 280-621220/20	1.0	0.27536	50.0	2130300.0	0.27536	Y
3	IC 280-621220/19	2.0	0.599566	50.0	2179494.0	0.299783	Y
4	IC 280-621220/18	5.0	2.092949	50.0	2161519.0	0.41859	Y
5	IC 280-621220/17	10.0	3.480288	50.0	2216038.0	0.348029	Y
6	ICIS 280-621220/16	50.0	16.551453	50.0	2317582.0	0.331029	Y
7	IC 280-621220/15	75.0	26.16829	50.0	2262624.0	0.348911	Y
8	IC 280-621220/14	100.0	33.259525	50.0	2263977.0	0.332595	Y
9	IC 280-621220/13	200.0	70.188991	50.0	2209843.0	0.350945	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

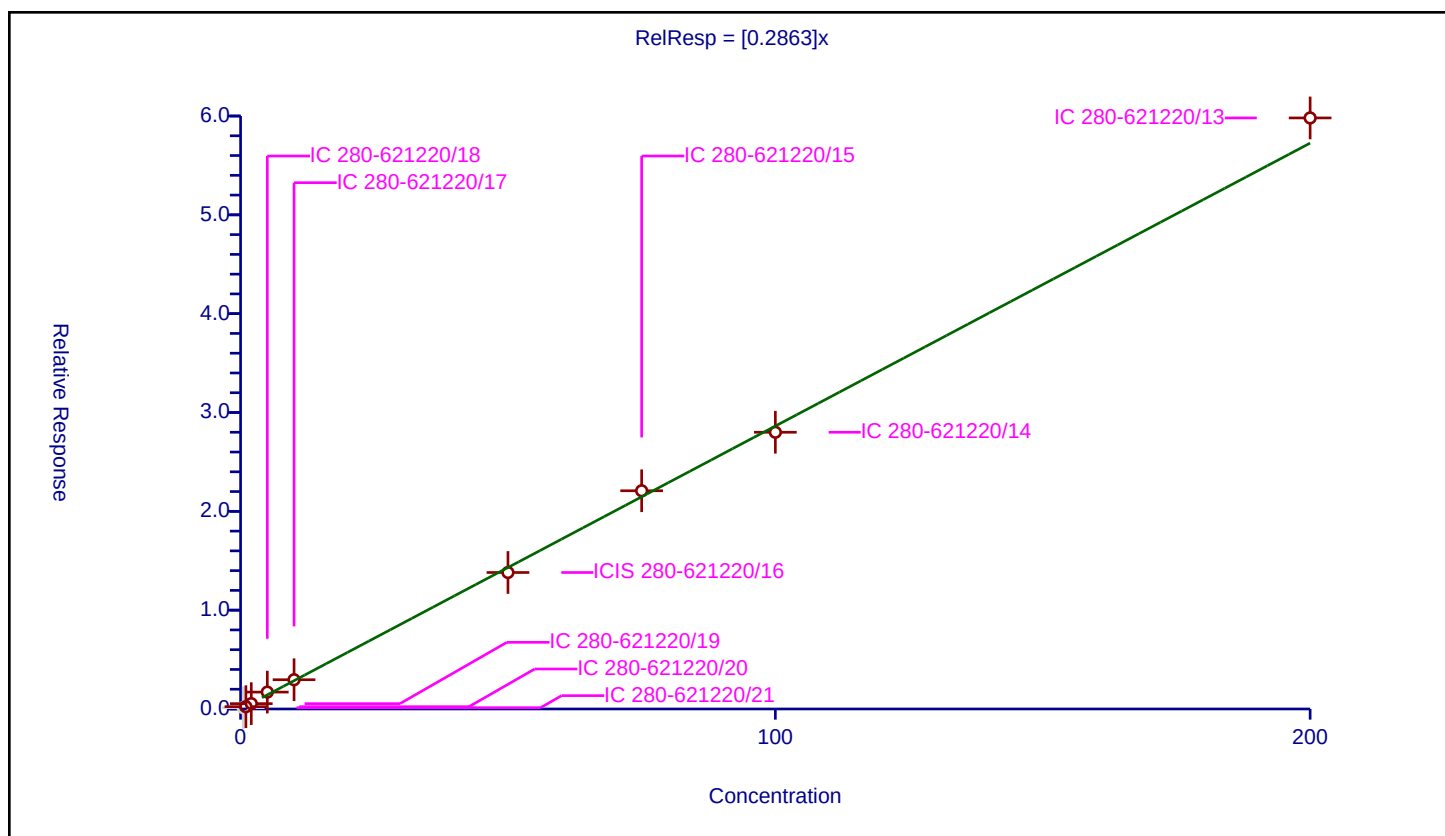
Curve Coefficients

Intercept: 0
Slope: 0.2863

Error Coefficients

Standard Error: 1200000
Relative Standard Error: 10.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.134808	50.0	2022878.0	0.269616	N
2	IC 280-621220/20	1.0	0.232244	50.0	2130300.0	0.232244	Y
3	IC 280-621220/19	2.0	0.541112	50.0	2179494.0	0.270556	Y
4	IC 280-621220/18	5.0	1.708891	50.0	2161519.0	0.341778	Y
5	IC 280-621220/17	10.0	2.960531	50.0	2216038.0	0.296053	Y
6	ICIS 280-621220/16	50.0	13.811162	50.0	2317582.0	0.276223	Y
7	IC 280-621220/15	75.0	22.079961	50.0	2262624.0	0.294399	Y
8	IC 280-621220/14	100.0	28.00077	50.0	2263977.0	0.280008	Y
9	IC 280-621220/13	200.0	59.806896	50.0	2209843.0	0.299034	Y



Calibration

/ Isobutyl alcohol

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

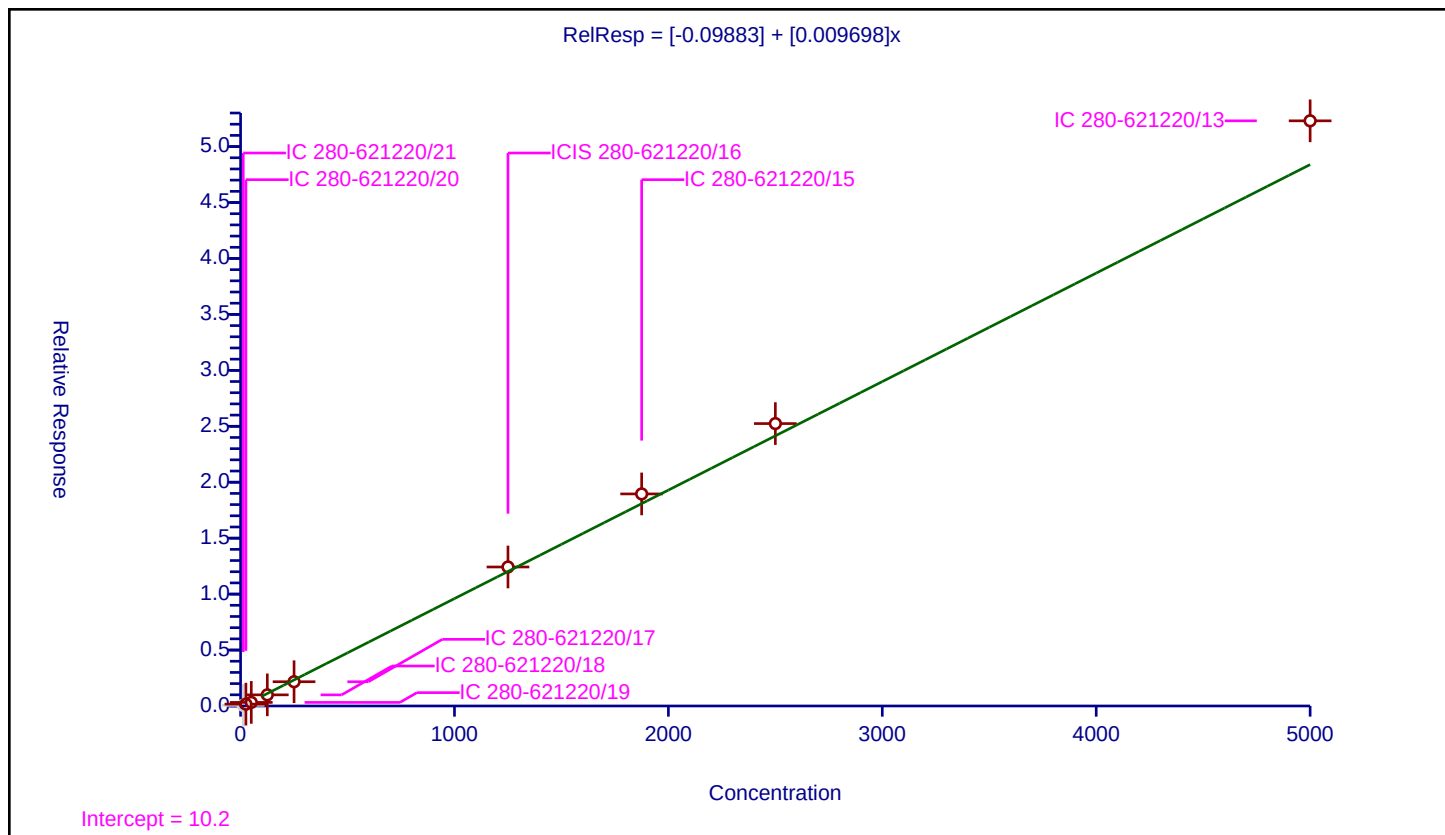
Curve Coefficients

Intercept: -0.09883
 Slope: 0.009698

Error Coefficients

Standard Error: 1130000
 Relative Standard Error: 9.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	12.5	0.058234	50.0	2022878.0	0.004659	N
2	IC 280-621220/20	25.0	0.165845	50.0	2130300.0	0.006634	Y
3	IC 280-621220/19	50.0	0.32035	50.0	2179494.0	0.006407	Y
4	IC 280-621220/18	125.0	0.994416	50.0	2161519.0	0.007955	Y
5	IC 280-621220/17	250.0	2.167697	50.0	2216038.0	0.008671	Y
6	ICIS 280-621220/16	1250.0	12.424803	50.0	2317582.0	0.00994	Y
7	IC 280-621220/15	1875.0	18.955536	50.0	2262624.0	0.01011	Y
8	IC 280-621220/14	2500.0	25.242438	50.0	2263977.0	0.010097	Y
9	IC 280-621220/13	5000.0	52.30272	50.0	2209843.0	0.010461	Y



Calibration

/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

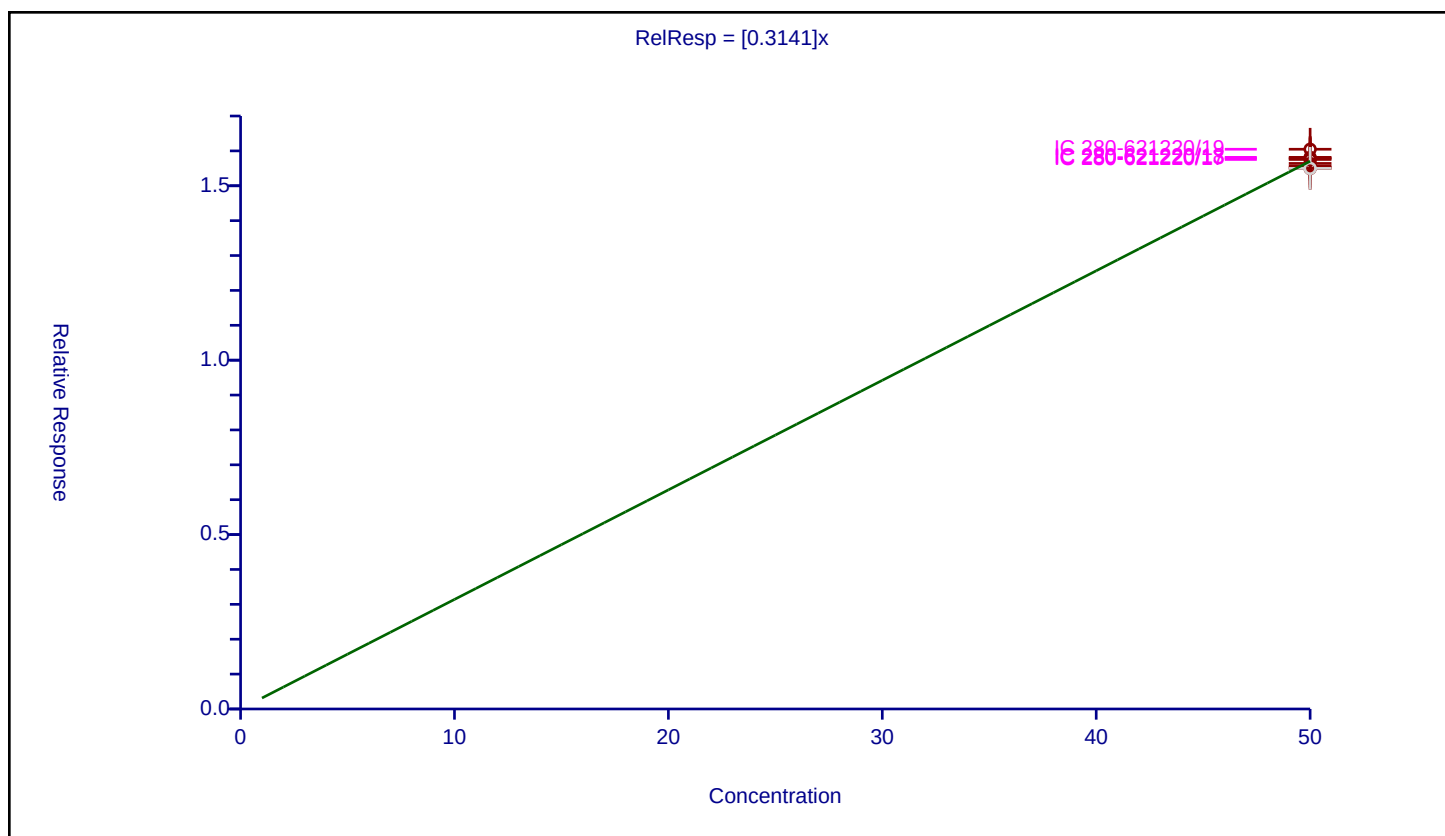
Curve Coefficients

Intercept: 0
 Slope: 0.3141

Error Coefficients

Standard Error: 745000
 Relative Standard Error: 1.2
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/13	50.0	15.787411	50.0	2209843.0	0.315748	Y
2	IC 280-621220/14	50.0	15.565286	50.0	2263977.0	0.311306	Y
3	IC 280-621220/15	50.0	15.640557	50.0	2262624.0	0.312811	Y
4	ICIS 280-621220/16	50.0	15.52355	50.0	2317582.0	0.310471	Y
5	IC 280-621220/17	50.0	15.753746	50.0	2216038.0	0.315075	Y
6	IC 280-621220/18	50.0	15.814712	50.0	2161519.0	0.316294	Y
7	IC 280-621220/19	50.0	16.04744	50.0	2179494.0	0.320949	Y
8	IC 280-621220/20	50.0	15.494508	50.0	2130300.0	0.30989	Y
9	IC 280-621220/21	50.0	15.499303	50.0	2022878.0	0.309986	N



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

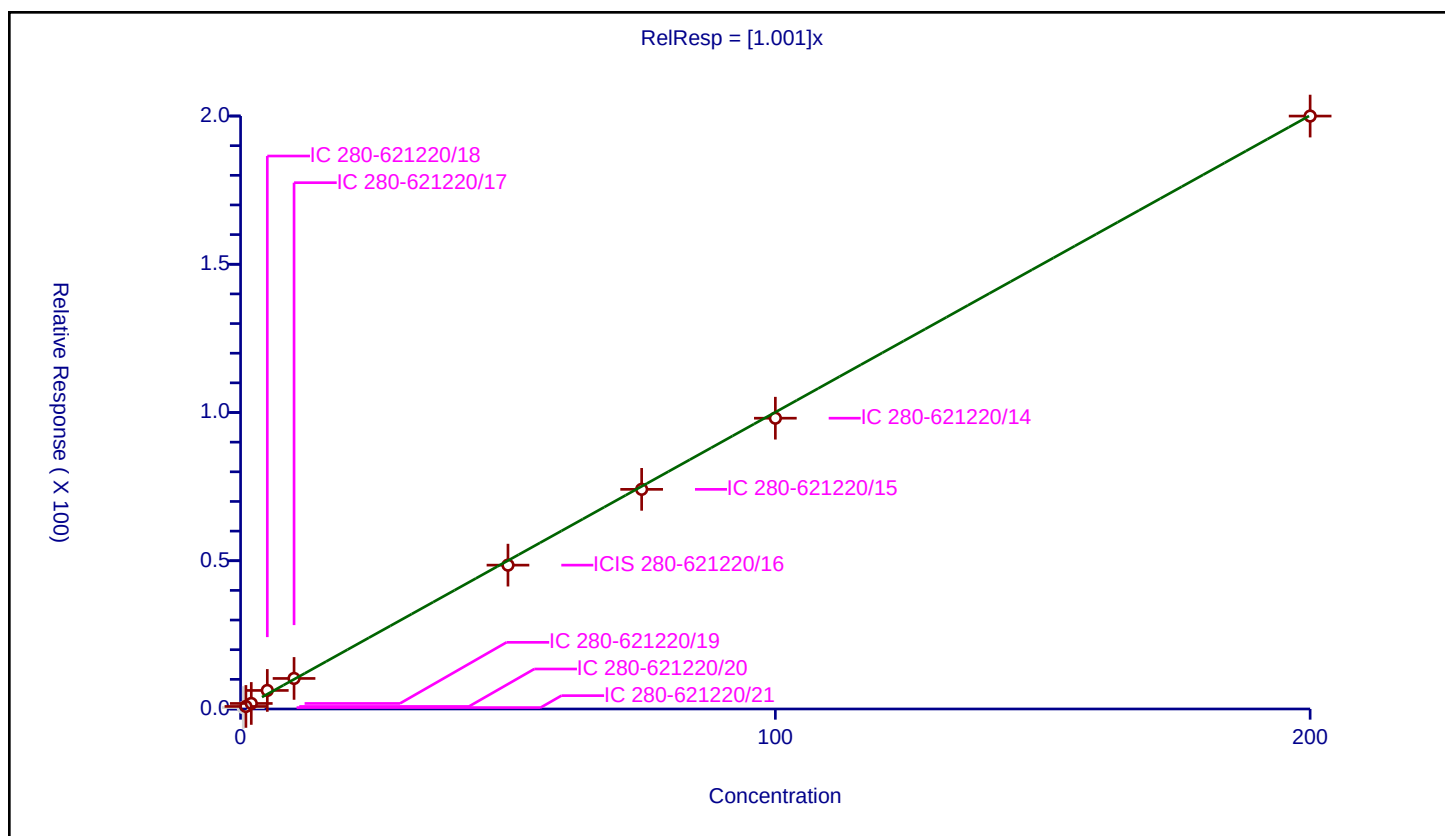
Curve Coefficients

Intercept: 0
Slope: 1.001

Error Coefficients

Standard Error: 4040000
Relative Standard Error: 11.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.478155	50.0	2022878.0	0.956311	N
2	IC 280-621220/20	1.0	0.854621	50.0	2130300.0	0.854621	Y
3	IC 280-621220/19	2.0	1.865777	50.0	2179494.0	0.932889	Y
4	IC 280-621220/18	5.0	6.257613	50.0	2161519.0	1.251523	Y
5	IC 280-621220/17	10.0	10.301516	50.0	2216038.0	1.030152	Y
6	ICIS 280-621220/16	50.0	48.523116	50.0	2317582.0	0.970462	Y
7	IC 280-621220/15	75.0	74.084315	50.0	2262624.0	0.987791	Y
8	IC 280-621220/14	100.0	98.077697	50.0	2263977.0	0.980777	Y
9	IC 280-621220/13	200.0	199.979682	50.0	2209843.0	0.999898	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

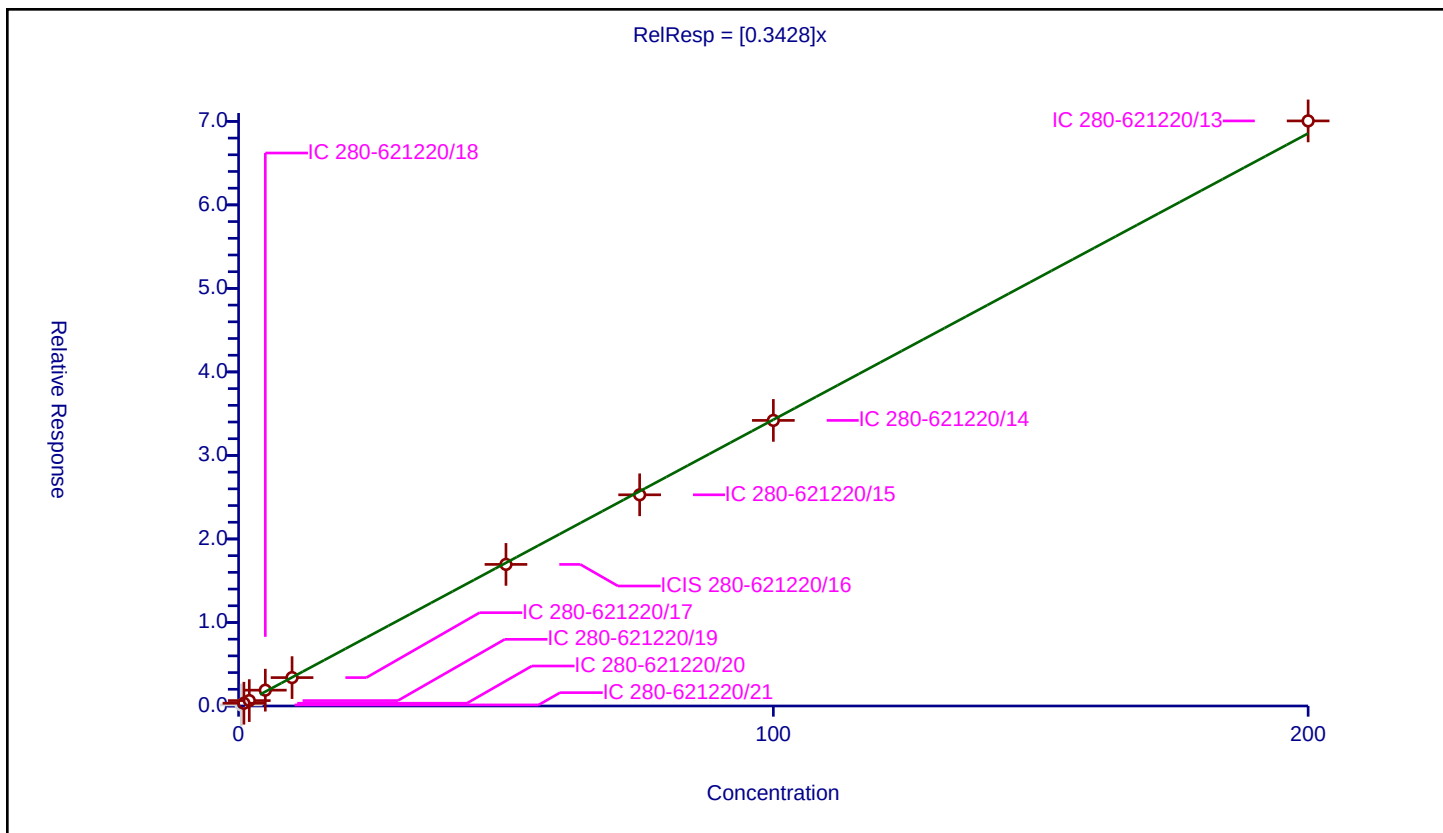
Curve Coefficients

Intercept: 0
 Slope: 0.3428

Error Coefficients

Standard Error: 1410000
 Relative Standard Error: 4.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.127764	50.0	2022878.0	0.255527	N
2	IC 280-621220/20	1.0	0.331831	50.0	2130300.0	0.331831	Y
3	IC 280-621220/19	2.0	0.646985	50.0	2179494.0	0.323493	Y
4	IC 280-621220/18	5.0	1.894223	50.0	2161519.0	0.378845	Y
5	IC 280-621220/17	10.0	3.398046	50.0	2216038.0	0.339805	Y
6	ICIS 280-621220/16	50.0	16.95323	50.0	2317582.0	0.339065	Y
7	IC 280-621220/15	75.0	25.287343	50.0	2262624.0	0.337165	Y
8	IC 280-621220/14	100.0	34.193435	50.0	2263977.0	0.341934	Y
9	IC 280-621220/13	200.0	70.054343	50.0	2209843.0	0.350272	Y



Calibration

/ n-Heptane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

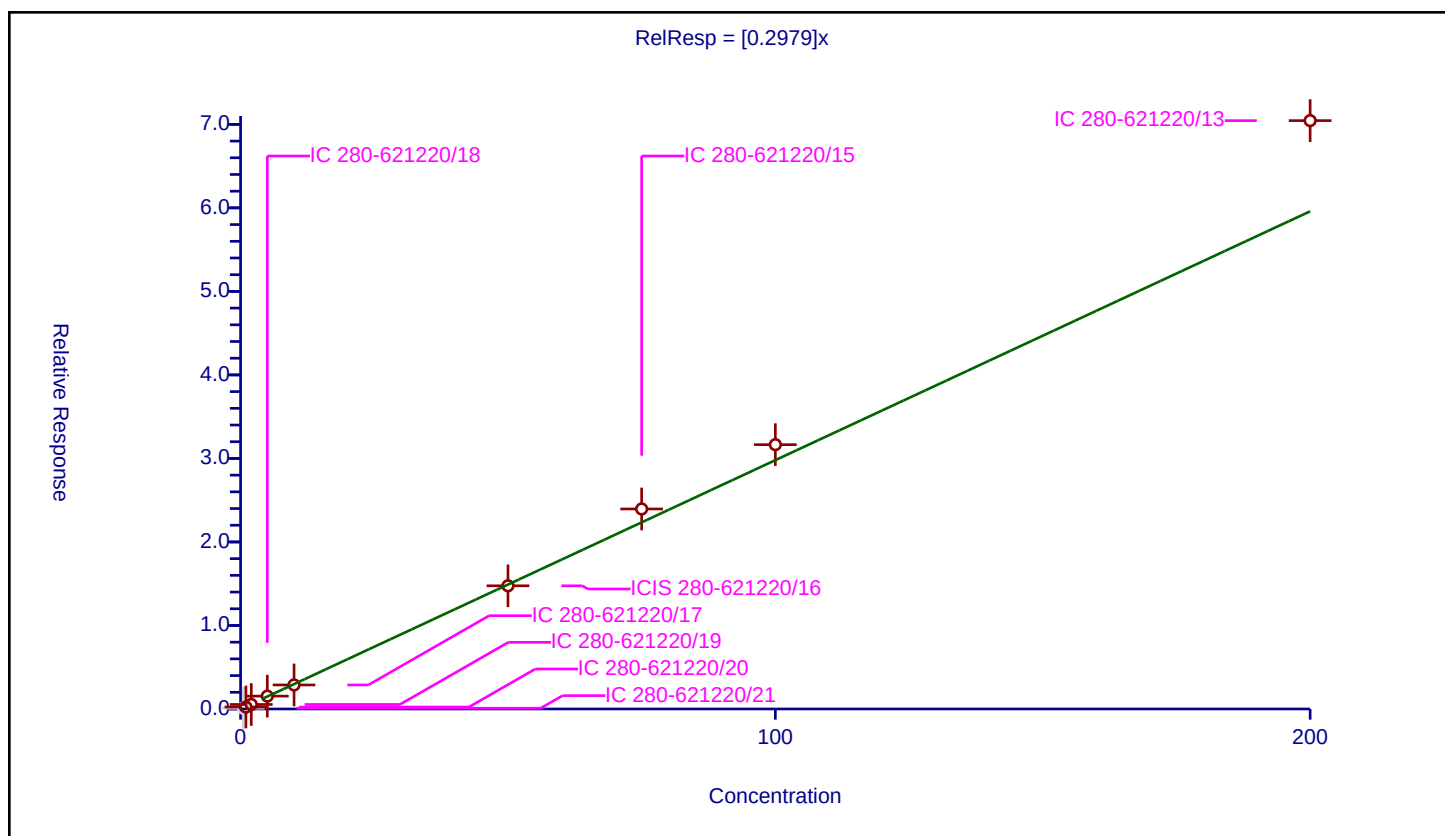
Curve Coefficients

Intercept: 0
Slope: 0.2979

Error Coefficients

Standard Error: 1380000
Relative Standard Error: 11.9
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.095433	50.0	2022878.0	0.190867	N
2	IC 280-621220/20	1.0	0.233441	50.0	2130300.0	0.233441	Y
3	IC 280-621220/19	2.0	0.541846	50.0	2179494.0	0.270923	Y
4	IC 280-621220/18	5.0	1.540097	50.0	2161519.0	0.308019	Y
5	IC 280-621220/17	10.0	2.879599	50.0	2216038.0	0.28796	Y
6	ICIS 280-621220/16	50.0	14.750503	50.0	2317582.0	0.29501	Y
7	IC 280-621220/15	75.0	23.948875	50.0	2262624.0	0.319318	Y
8	IC 280-621220/14	100.0	31.649659	50.0	2263977.0	0.316497	Y
9	IC 280-621220/13	200.0	70.448964	50.0	2209843.0	0.352245	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

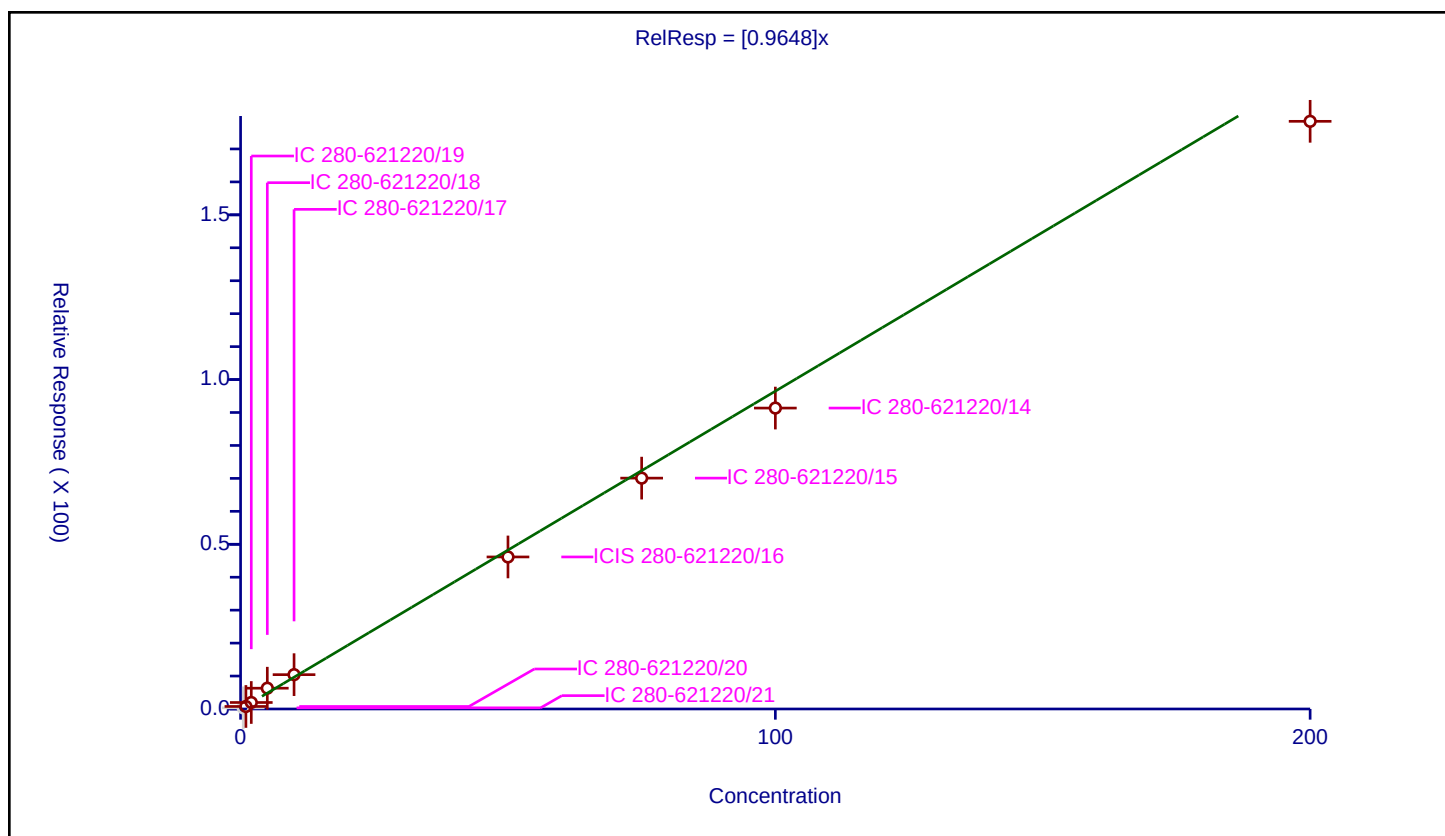
Curve Coefficients

Intercept: 0
Slope: 0.9648

Error Coefficients

Standard Error: 943000
Relative Standard Error: 14.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.350203	50.0	492571.0	0.700407	N
2	IC 280-621220/20	1.0	0.765826	50.0	515326.0	0.765826	Y
3	IC 280-621220/19	2.0	1.97273	50.0	532739.0	0.986365	Y
4	IC 280-621220/18	5.0	6.306788	50.0	530920.0	1.261358	Y
5	IC 280-621220/17	10.0	10.418705	50.0	540571.0	1.041871	Y
6	ICIS 280-621220/16	50.0	46.149376	50.0	571323.0	0.922988	Y
7	IC 280-621220/15	75.0	70.081724	50.0	573514.0	0.934423	Y
8	IC 280-621220/14	100.0	91.342254	50.0	570801.0	0.913423	Y
9	IC 280-621220/13	200.0	178.389415	50.0	574369.0	0.891947	Y



Calibration

/ 2-Pentanone

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

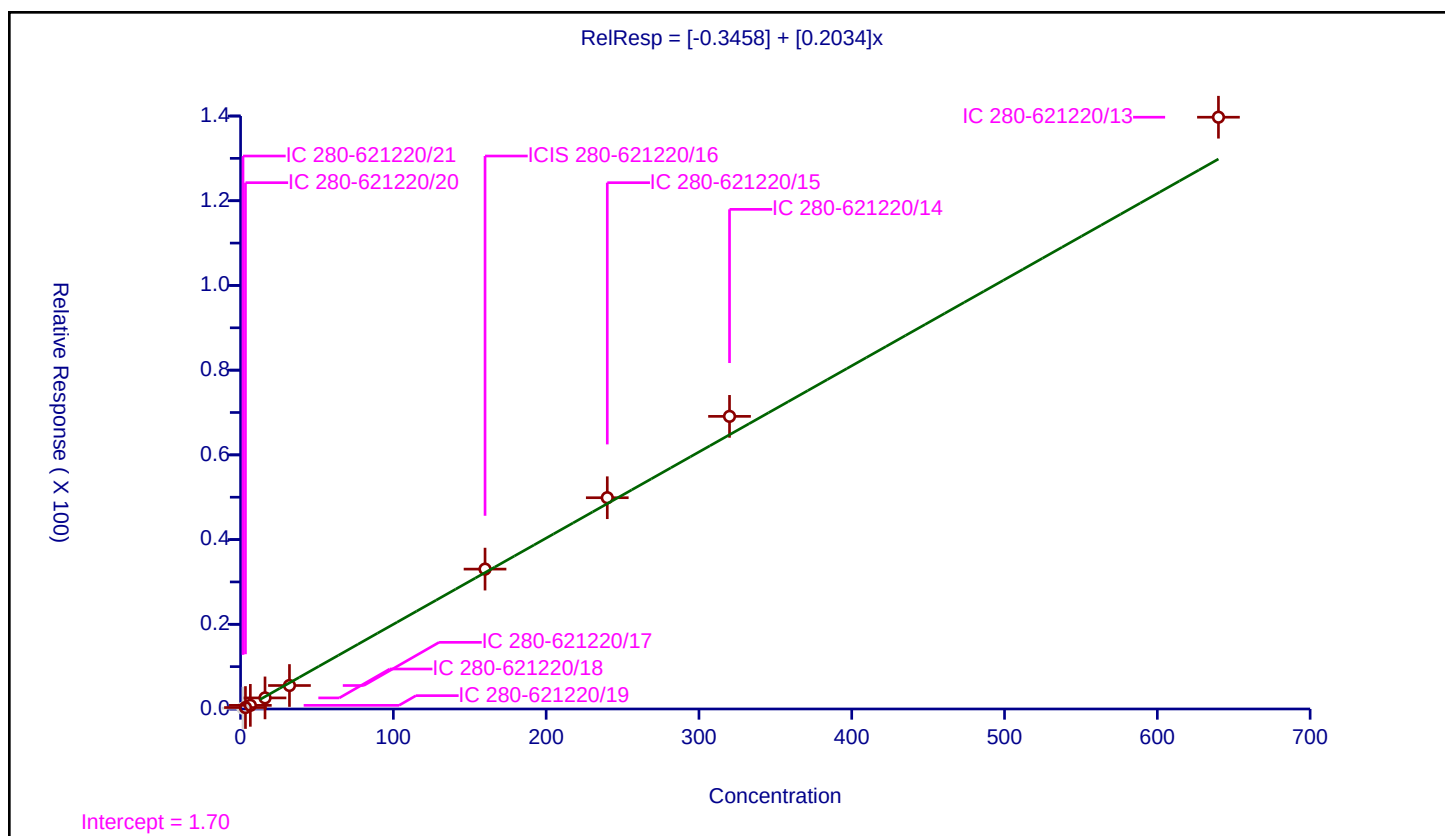
Curve Coefficients

Intercept: -0.3458
Slope: 0.2034

Error Coefficients

Standard Error: 3040000
Relative Standard Error: 8.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	1.6	0.191188	50.0	2022878.0	0.119493	N
2	IC 280-621220/20	3.2	0.346172	50.0	2130300.0	0.108179	Y
3	IC 280-621220/19	6.4	0.858043	50.0	2179494.0	0.134069	Y
4	IC 280-621220/18	16.0	2.618922	50.0	2161519.0	0.163683	Y
5	IC 280-621220/17	32.0	5.545144	50.0	2216038.0	0.173286	Y
6	ICIS 280-621220/16	160.0	33.022693	50.0	2317582.0	0.206392	Y
7	IC 280-621220/15	240.0	49.877443	50.0	2262624.0	0.207823	Y
8	IC 280-621220/14	320.0	69.085552	50.0	2263977.0	0.215892	Y
9	IC 280-621220/13	640.0	139.713998	50.0	2209843.0	0.218303	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

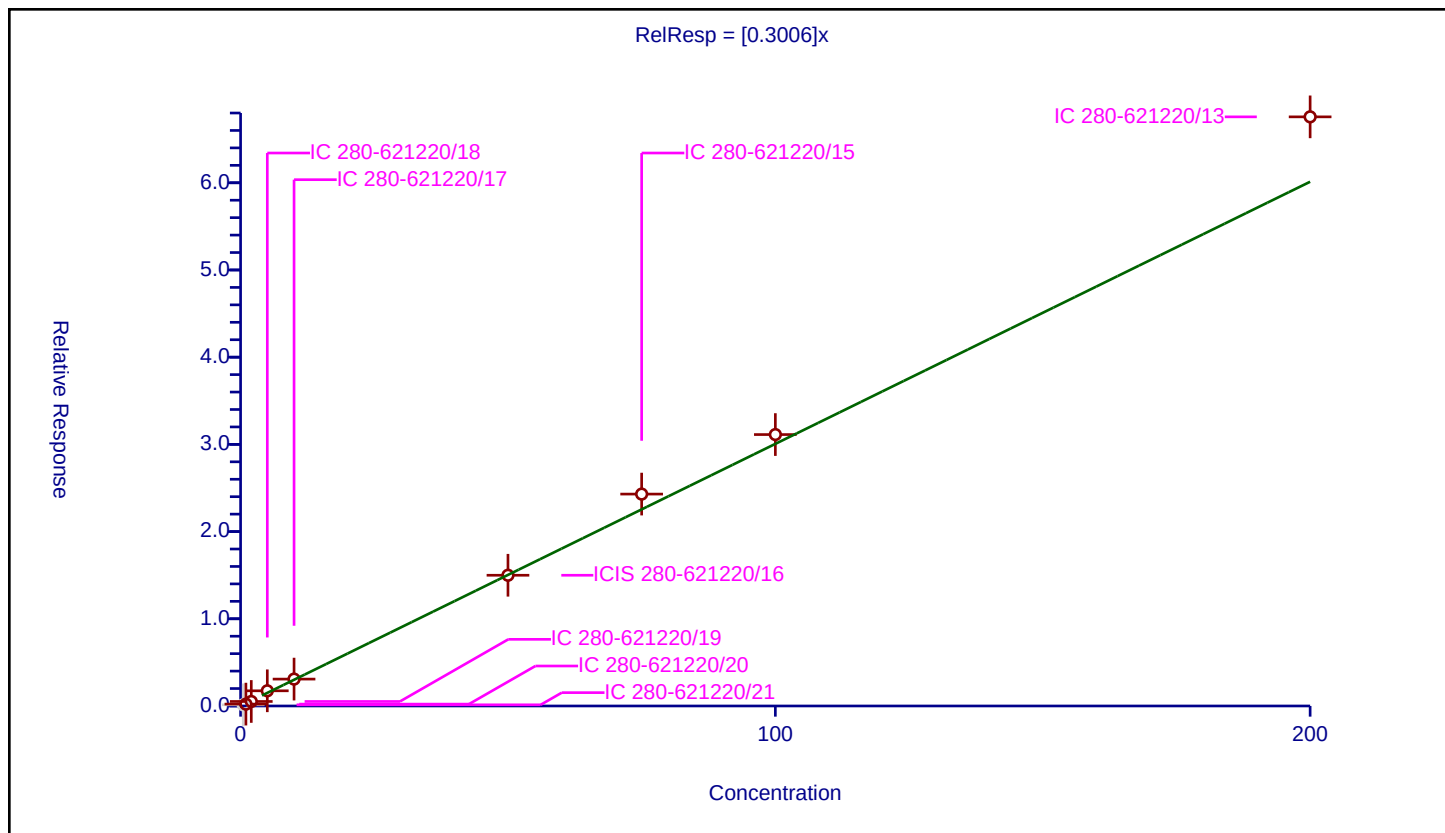
Curve Coefficients

Intercept: 0
Slope: 0.3006

Error Coefficients

Standard Error: 1340000
Relative Standard Error: 14.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.135871	50.0	2022878.0	0.271742	N
2	IC 280-621220/20	1.0	0.216495	50.0	2130300.0	0.216495	Y
3	IC 280-621220/19	2.0	0.517666	50.0	2179494.0	0.258833	Y
4	IC 280-621220/18	5.0	1.740743	50.0	2161519.0	0.348149	Y
5	IC 280-621220/17	10.0	3.083002	50.0	2216038.0	0.3083	Y
6	ICIS 280-621220/16	50.0	14.99071	50.0	2317582.0	0.299814	Y
7	IC 280-621220/15	75.0	24.300105	50.0	2262624.0	0.324001	Y
8	IC 280-621220/14	100.0	31.127525	50.0	2263977.0	0.311275	Y
9	IC 280-621220/13	200.0	67.55989	50.0	2209843.0	0.337799	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

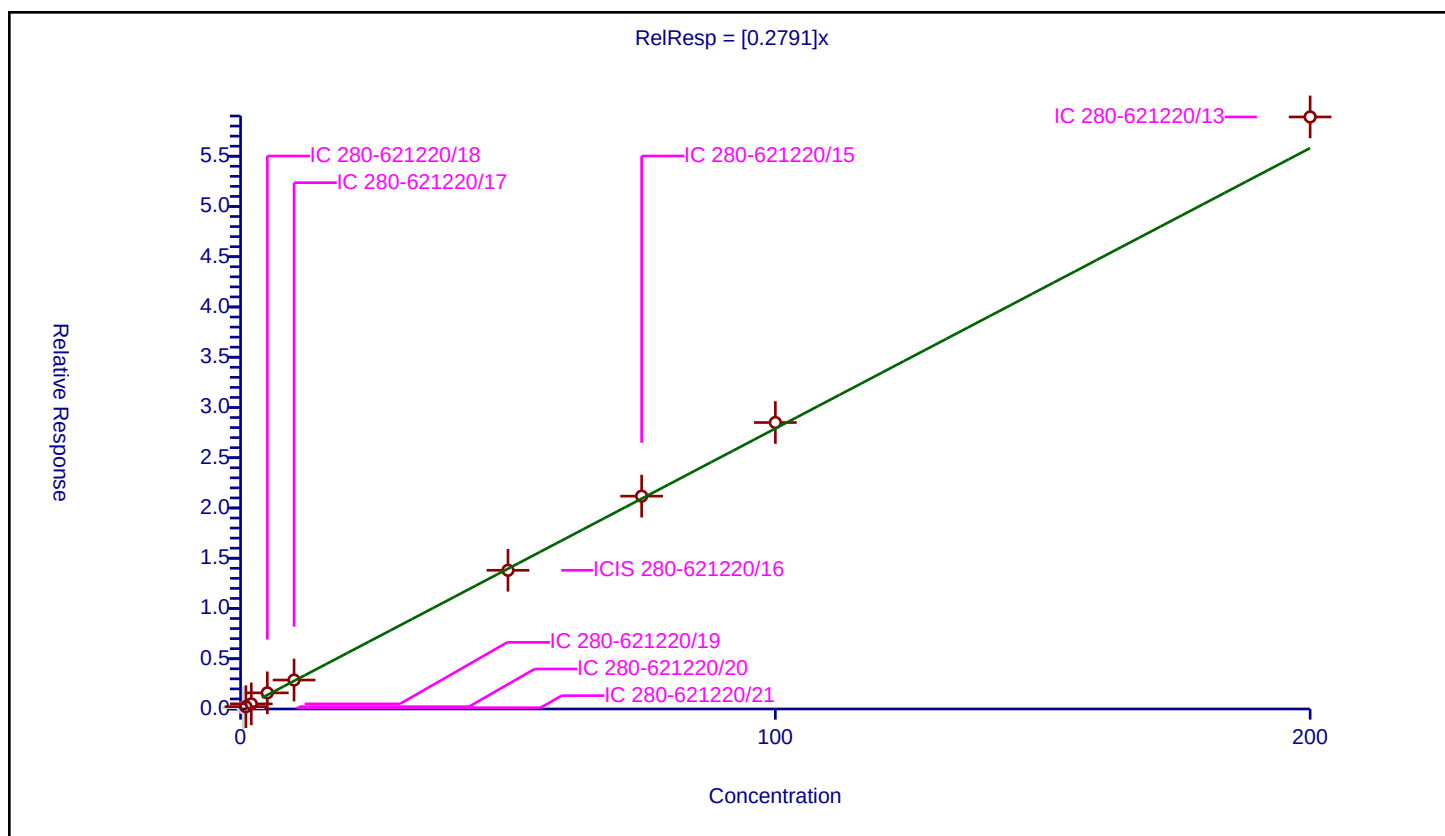
Curve Coefficients

Intercept: 0
Slope: 0.2791

Error Coefficients

Standard Error: 1180000
Relative Standard Error: 9.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.127467	50.0	2022878.0	0.254934	N
2	IC 280-621220/20	1.0	0.231845	50.0	2130300.0	0.231845	Y
3	IC 280-621220/19	2.0	0.50771	50.0	2179494.0	0.253855	Y
4	IC 280-621220/18	5.0	1.604219	50.0	2161519.0	0.320844	Y
5	IC 280-621220/17	10.0	2.87926	50.0	2216038.0	0.287926	Y
6	ICIS 280-621220/16	50.0	13.800612	50.0	2317582.0	0.276012	Y
7	IC 280-621220/15	75.0	21.177955	50.0	2262624.0	0.282373	Y
8	IC 280-621220/14	100.0	28.502984	50.0	2263977.0	0.28503	Y
9	IC 280-621220/13	200.0	58.906085	50.0	2209843.0	0.29453	Y



Calibration

/ 1,4-Dioxane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

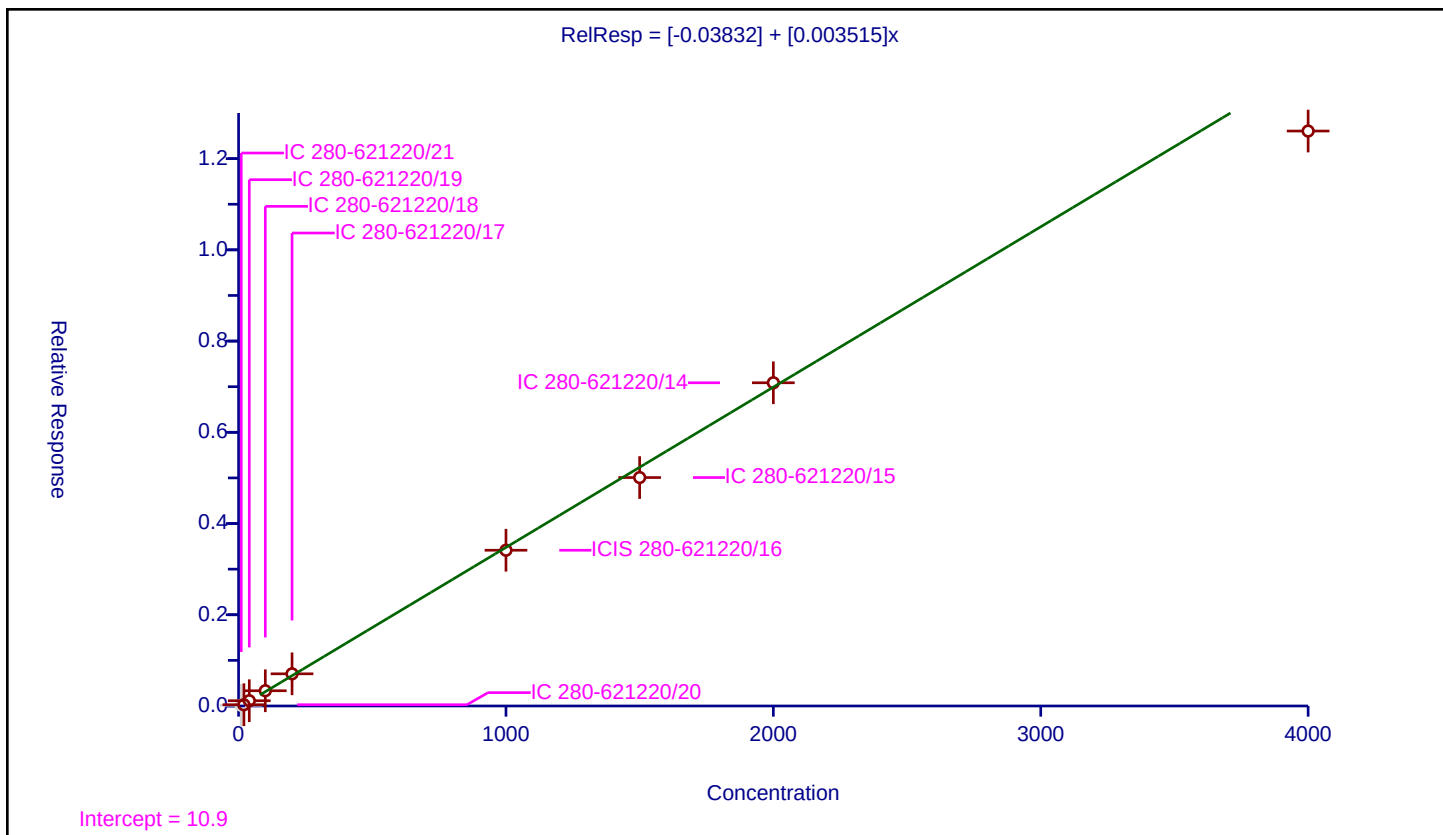
Curve Coefficients

Intercept: -0.03832
 Slope: 0.003515

Error Coefficients

Standard Error: 286000
 Relative Standard Error: 7.3
 Correlation Coefficient: 0.994
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	10.0	0.016017	50.0	2022878.0	0.001602	N
2	IC 280-621220/20	20.0	0.027578	50.0	2130300.0	0.001379	Y
3	IC 280-621220/19	40.0	0.115187	50.0	2179494.0	0.00288	Y
4	IC 280-621220/18	100.0	0.334233	50.0	2161519.0	0.003342	Y
5	IC 280-621220/17	200.0	0.705448	50.0	2216038.0	0.003527	Y
6	ICIS 280-621220/16	1000.0	3.414744	50.0	2317582.0	0.003415	Y
7	IC 280-621220/15	1500.0	5.008123	50.0	2262624.0	0.003339	Y
8	IC 280-621220/14	2000.0	7.085739	50.0	2263977.0	0.003543	Y
9	IC 280-621220/13	4000.0	12.604764	50.0	2209843.0	0.003151	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

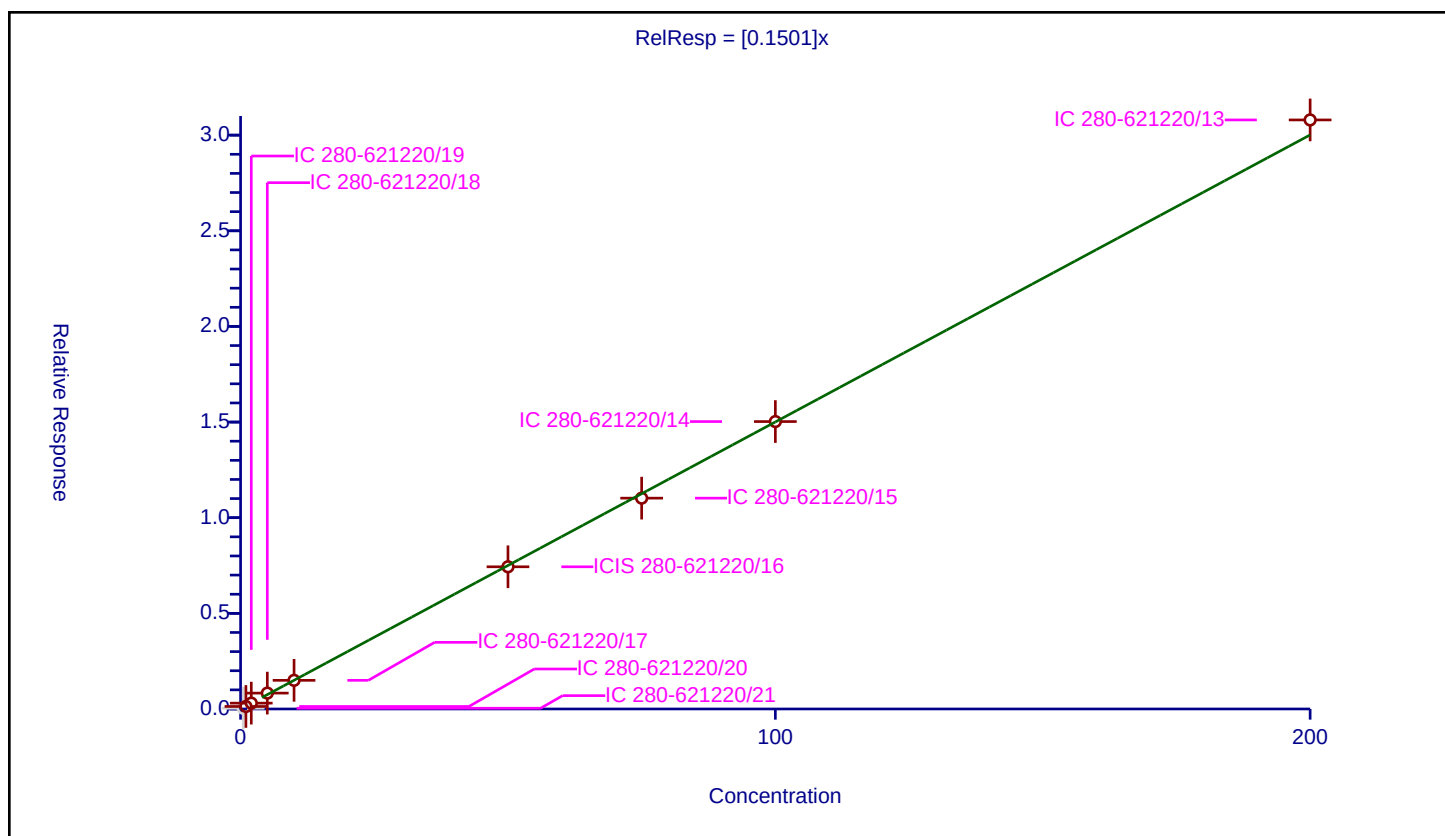
Curve Coefficients

Intercept: 0
Slope: 0.1501

Error Coefficients

Standard Error: 620000
Relative Standard Error: 6.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.039523	50.0	2022878.0	0.079046	N
2	IC 280-621220/20	1.0	0.131648	50.0	2130300.0	0.131648	Y
3	IC 280-621220/19	2.0	0.306218	50.0	2179494.0	0.153109	Y
4	IC 280-621220/18	5.0	0.830365	50.0	2161519.0	0.166073	Y
5	IC 280-621220/17	10.0	1.497425	50.0	2216038.0	0.149742	Y
6	ICIS 280-621220/16	50.0	7.43443	50.0	2317582.0	0.148689	Y
7	IC 280-621220/15	75.0	11.022291	50.0	2262624.0	0.146964	Y
8	IC 280-621220/14	100.0	15.026765	50.0	2263977.0	0.150268	Y
9	IC 280-621220/13	200.0	30.794563	50.0	2209843.0	0.153973	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

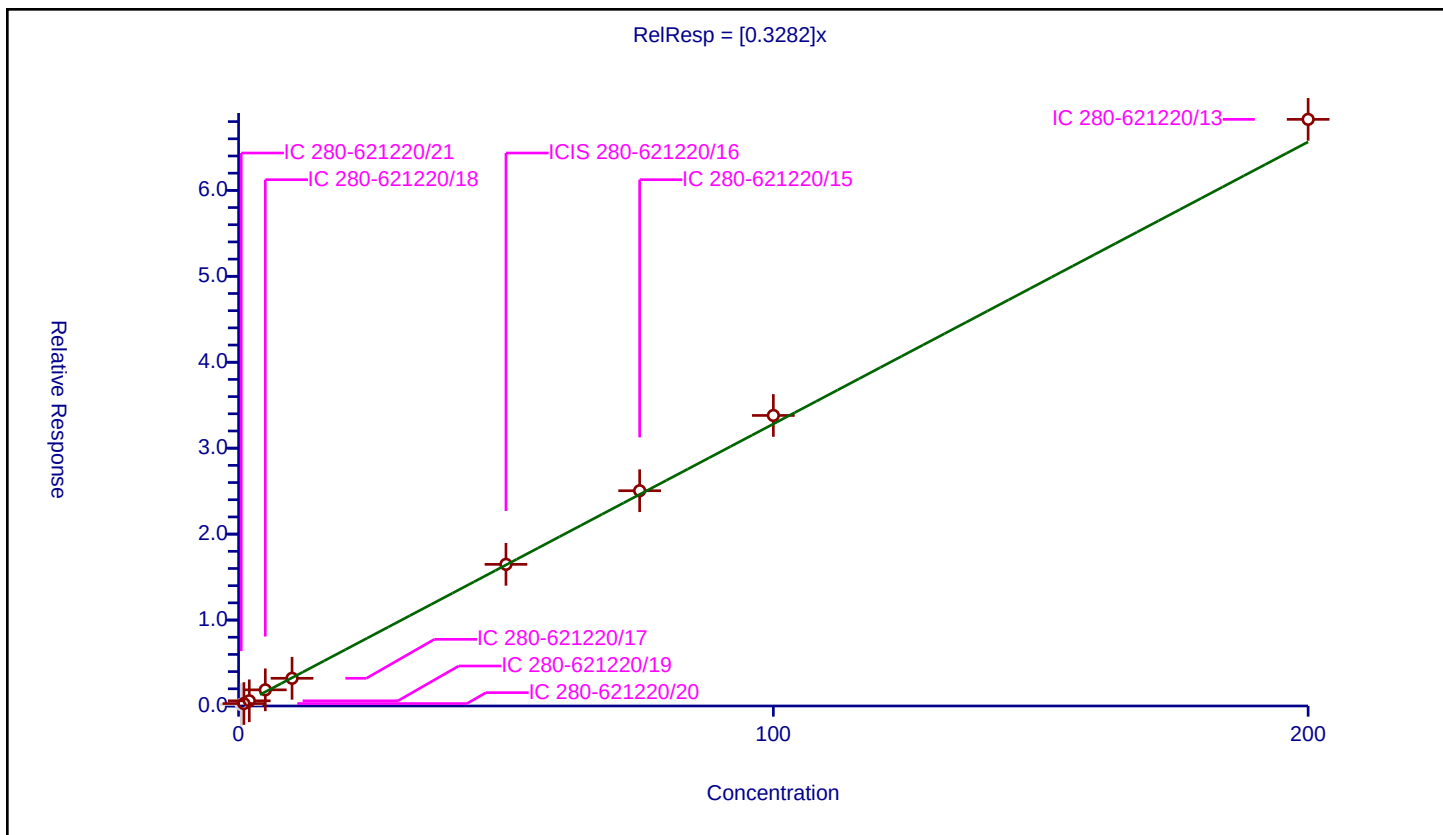
Curve Coefficients

Intercept: 0
 Slope: 0.3282

Error Coefficients

Standard Error: 1380000
 Relative Standard Error: 8.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.177742	50.0	2022878.0	0.355484	N
2	IC 280-621220/20	1.0	0.283035	50.0	2130300.0	0.283035	Y
3	IC 280-621220/19	2.0	0.603535	50.0	2179494.0	0.301767	Y
4	IC 280-621220/18	5.0	1.878239	50.0	2161519.0	0.375648	Y
5	IC 280-621220/17	10.0	3.221876	50.0	2216038.0	0.322188	Y
6	ICIS 280-621220/16	50.0	16.480517	50.0	2317582.0	0.32961	Y
7	IC 280-621220/15	75.0	25.049191	50.0	2262624.0	0.333989	Y
8	IC 280-621220/14	100.0	33.808382	50.0	2263977.0	0.338084	Y
9	IC 280-621220/13	200.0	68.26261	50.0	2209843.0	0.341313	Y



Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

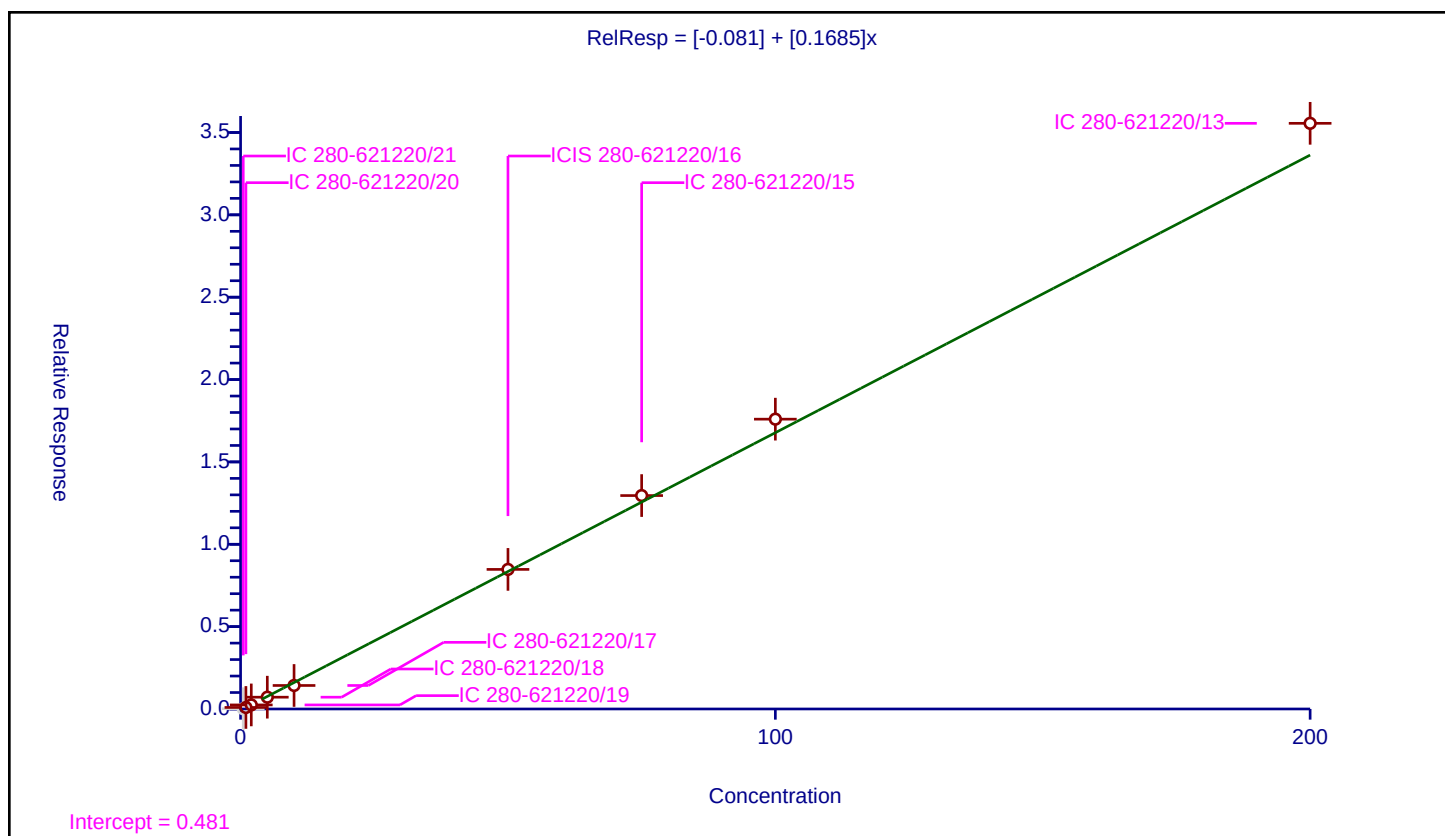
Curve Coefficients

Intercept: -0.081
 Slope: 0.1685

Error Coefficients

Standard Error: 775000
 Relative Standard Error: 6.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.015424	50.0	2022878.0	0.030847	N
2	IC 280-621220/20	1.0	0.093062	50.0	2130300.0	0.093062	Y
3	IC 280-621220/19	2.0	0.24742	50.0	2179494.0	0.12371	Y
4	IC 280-621220/18	5.0	0.716256	50.0	2161519.0	0.143251	Y
5	IC 280-621220/17	10.0	1.426532	50.0	2216038.0	0.142653	Y
6	ICIS 280-621220/16	50.0	8.474155	50.0	2317582.0	0.169483	Y
7	IC 280-621220/15	75.0	12.956881	50.0	2262624.0	0.172758	Y
8	IC 280-621220/14	100.0	17.59532	50.0	2263977.0	0.175953	Y
9	IC 280-621220/13	200.0	35.555693	50.0	2209843.0	0.177778	Y



Calibration

/ cis-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

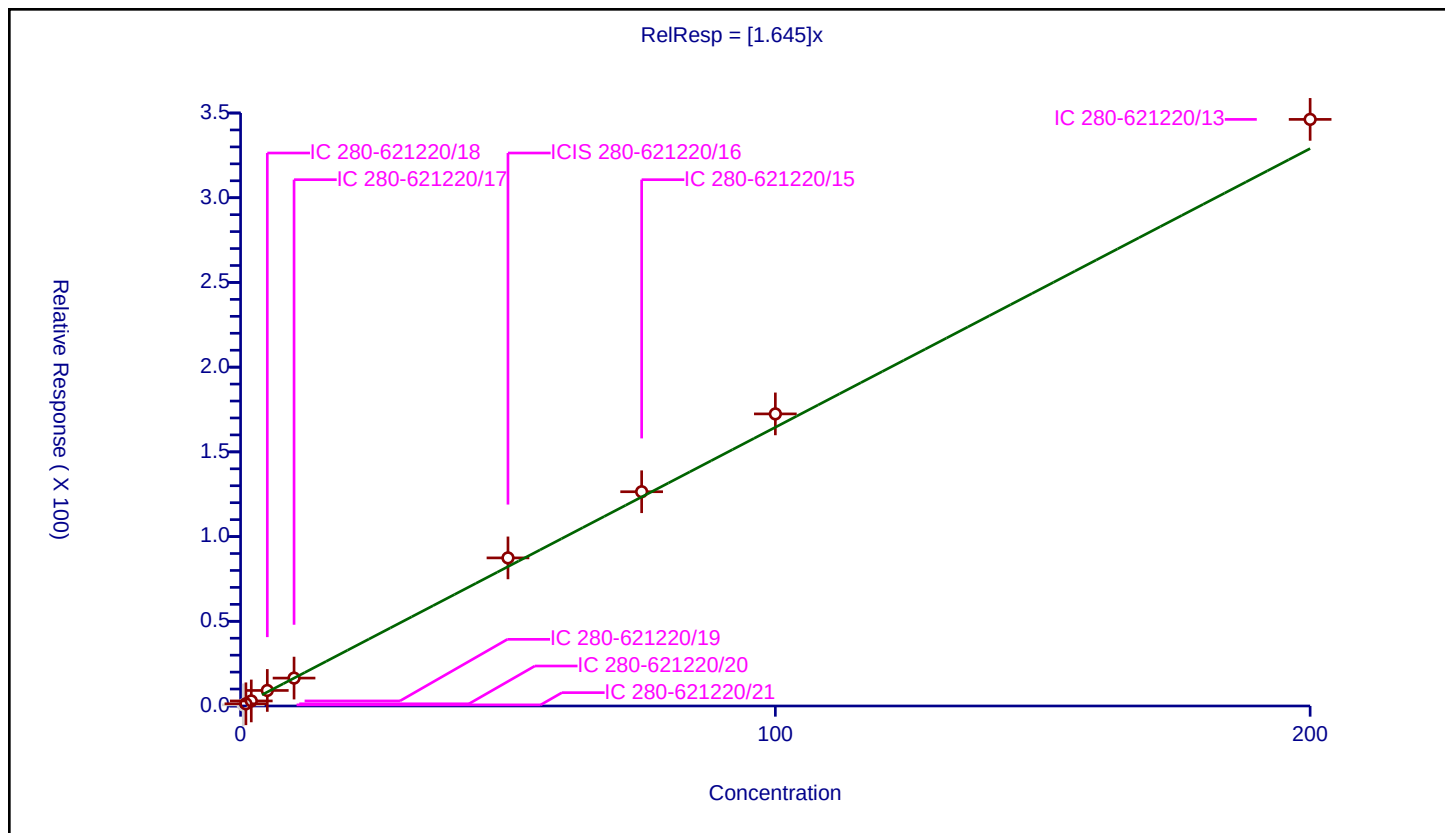
Curve Coefficients

Intercept: 0
Slope: 1.645

Error Coefficients

Standard Error: 1810000
Relative Standard Error: 10.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.661834	50.0	492571.0	1.323667	N
2	IC 280-621220/20	1.0	1.301797	50.0	515326.0	1.301797	Y
3	IC 280-621220/19	2.0	2.977537	50.0	532739.0	1.488768	Y
4	IC 280-621220/18	5.0	9.172663	50.0	530920.0	1.834533	Y
5	IC 280-621220/17	10.0	16.46435	50.0	540571.0	1.646435	Y
6	ICIS 280-621220/16	50.0	87.407999	50.0	571323.0	1.74816	Y
7	IC 280-621220/15	75.0	126.455675	50.0	573514.0	1.686076	Y
8	IC 280-621220/14	100.0	172.400101	50.0	570801.0	1.724001	Y
9	IC 280-621220/13	200.0	346.243617	50.0	574369.0	1.731218	Y



Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

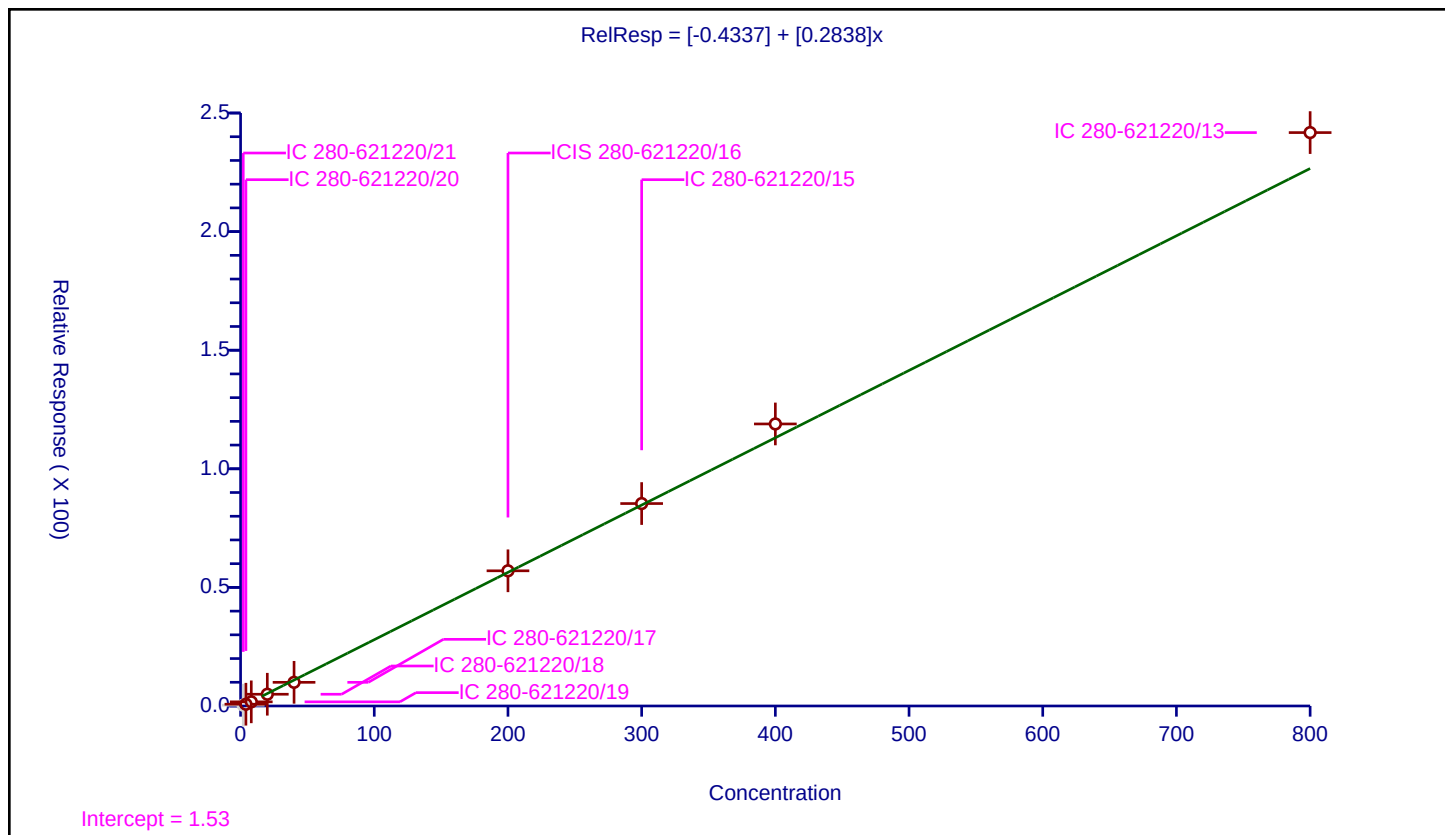
Curve Coefficients

Intercept: -0.4337
 Slope: 0.2838

Error Coefficients

Standard Error: 5250000
 Relative Standard Error: 5.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	2.0	0.33964	50.0	2022878.0	0.16982	N
2	IC 280-621220/20	4.0	0.743557	50.0	2130300.0	0.185889	Y
3	IC 280-621220/19	8.0	1.74841	50.0	2179494.0	0.218551	Y
4	IC 280-621220/18	20.0	4.947262	50.0	2161519.0	0.247363	Y
5	IC 280-621220/17	40.0	9.972618	50.0	2216038.0	0.249315	Y
6	ICIS 280-621220/16	200.0	56.994553	50.0	2317582.0	0.284973	Y
7	IC 280-621220/15	300.0	85.349444	50.0	2262624.0	0.284498	Y
8	IC 280-621220/14	400.0	118.904167	50.0	2263977.0	0.29726	Y
9	IC 280-621220/13	800.0	241.749572	50.0	2209843.0	0.302187	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

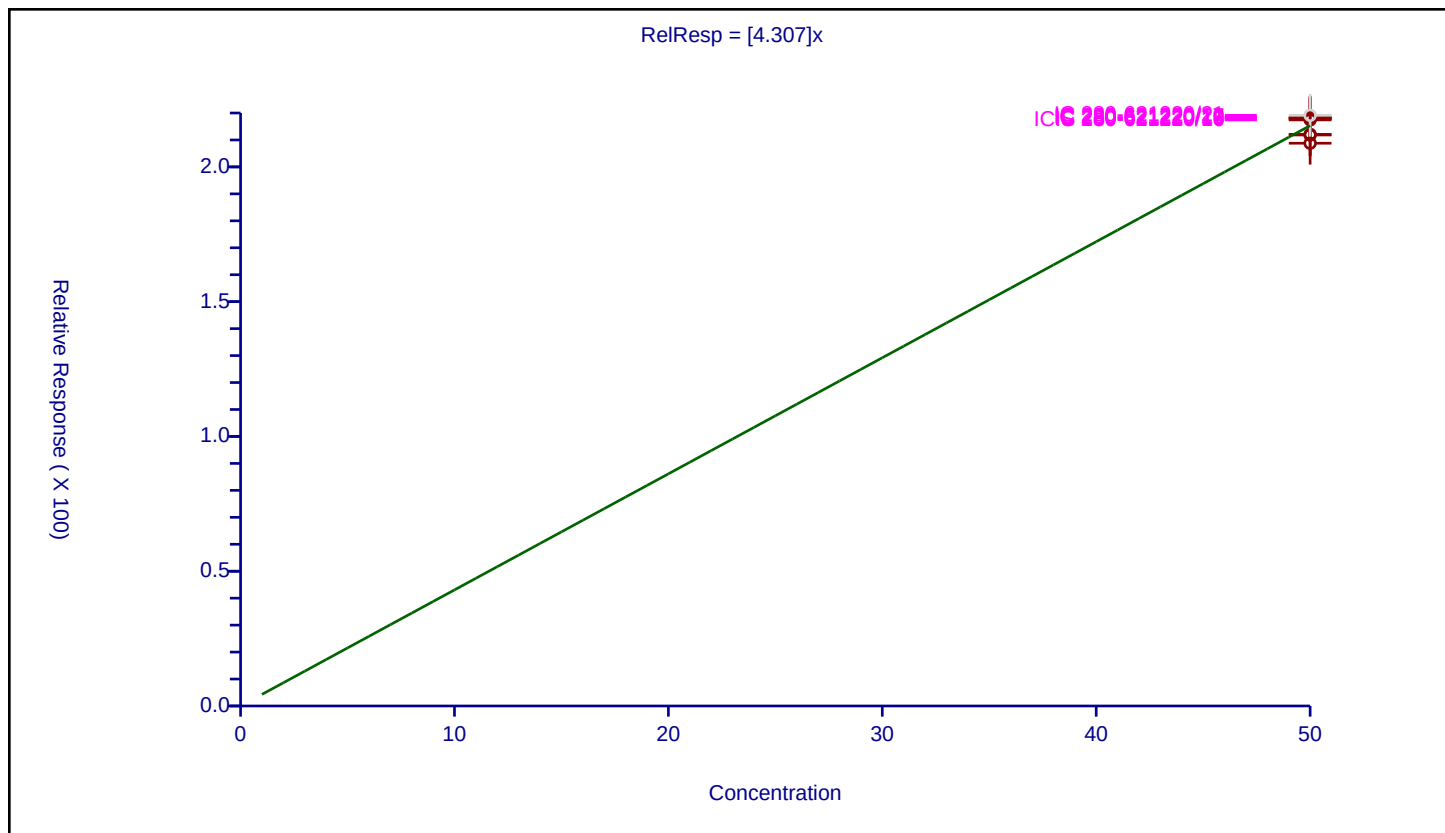
Curve Coefficients

Intercept: 0
Slope: 4.307

Error Coefficients

Standard Error: 2540000
Relative Standard Error: 1.8
Correlation Coefficient: 0
Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/13	50.0	208.785815	50.0	574369.0	4.175716	Y
2	IC 280-621220/14	50.0	211.846423	50.0	570801.0	4.236928	Y
3	IC 280-621220/15	50.0	212.081832	50.0	573514.0	4.241637	Y
4	ICIS 280-621220/16	50.0	217.451074	50.0	571323.0	4.349021	Y
5	IC 280-621220/17	50.0	218.407758	50.0	540571.0	4.368155	Y
6	IC 280-621220/18	50.0	218.004219	50.0	530920.0	4.360084	Y
7	IC 280-621220/19	50.0	217.765266	50.0	532739.0	4.355305	Y
8	IC 280-621220/20	50.0	218.290655	50.0	515326.0	4.365813	Y
9	IC 280-621220/21	50.0	219.135414	50.0	492571.0	4.382708	N



Calibration

/ Toluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

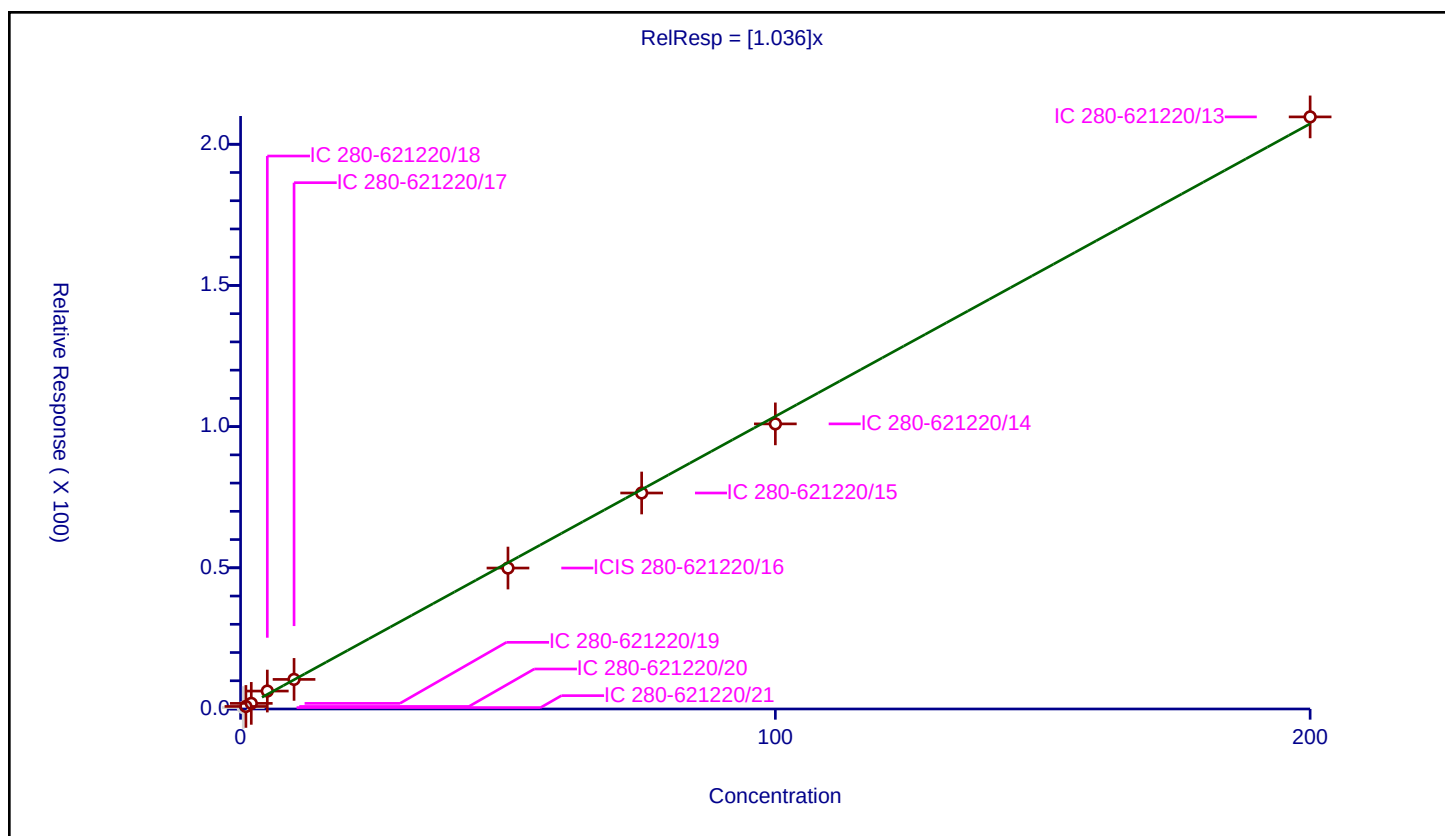
Curve Coefficients

Intercept: 0
Slope: 1.036

Error Coefficients

Standard Error: 4220000
Relative Standard Error: 10.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.506852	50.0	2022878.0	1.013704	N
2	IC 280-621220/20	1.0	0.90215	50.0	2130300.0	0.90215	Y
3	IC 280-621220/19	2.0	1.987686	50.0	2179494.0	0.993843	Y
4	IC 280-621220/18	5.0	6.351459	50.0	2161519.0	1.270292	Y
5	IC 280-621220/17	10.0	10.48098	50.0	2216038.0	1.048098	Y
6	ICIS 280-621220/16	50.0	49.913617	50.0	2317582.0	0.998272	Y
7	IC 280-621220/15	75.0	76.486416	50.0	2262624.0	1.019819	Y
8	IC 280-621220/14	100.0	100.972404	50.0	2263977.0	1.009724	Y
9	IC 280-621220/13	200.0	209.686819	50.0	2209843.0	1.048434	Y



Calibration

/ trans-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

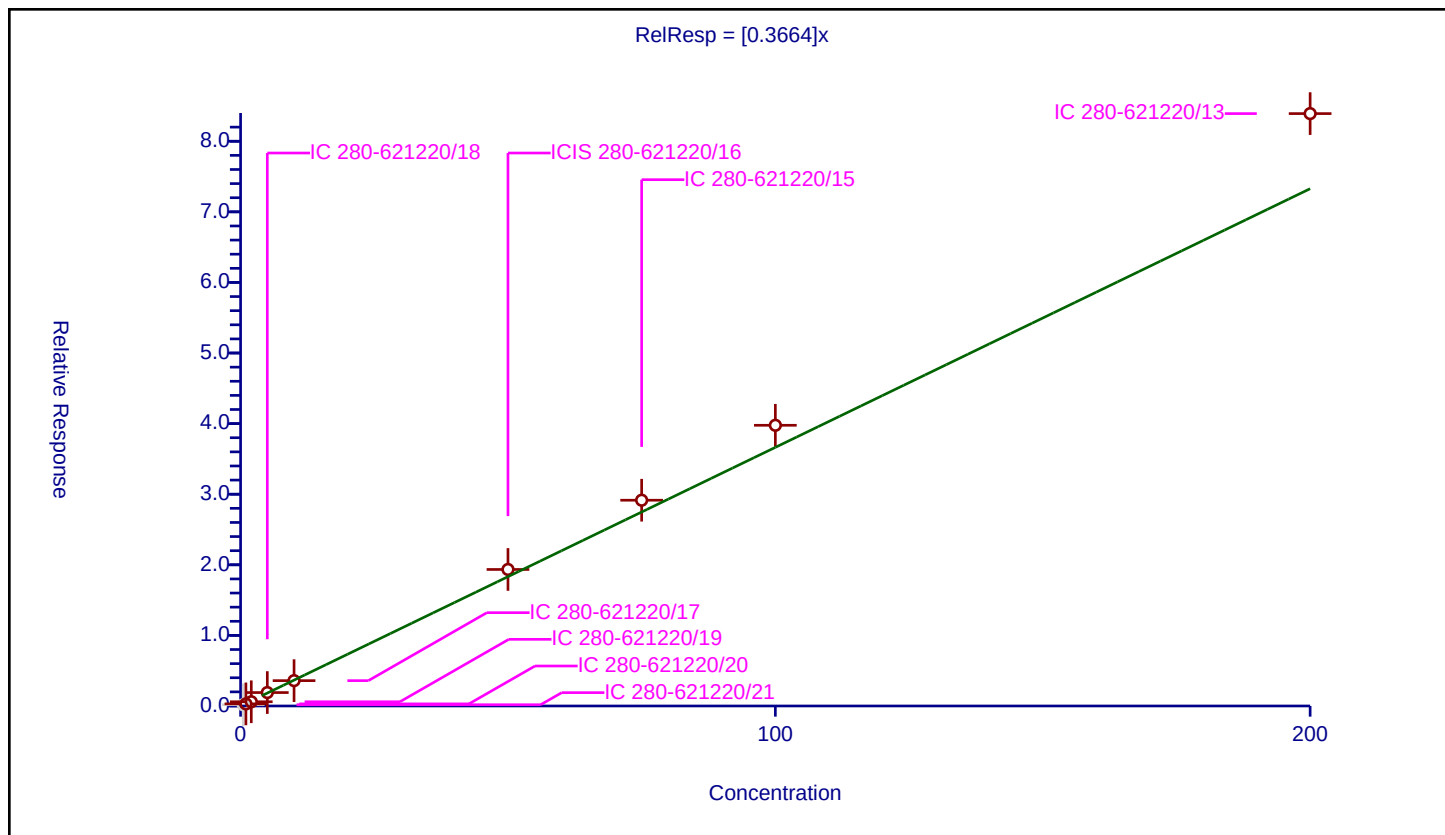
Curve Coefficients

Intercept: 0
Slope: 0.3664

Error Coefficients

Standard Error: 1670000
Relative Standard Error: 12.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.177791	50.0	2022878.0	0.355582	N
2	IC 280-621220/20	1.0	0.299512	50.0	2130300.0	0.299512	Y
3	IC 280-621220/19	2.0	0.598556	50.0	2179494.0	0.299278	Y
4	IC 280-621220/18	5.0	1.902875	50.0	2161519.0	0.380575	Y
5	IC 280-621220/17	10.0	3.58983	50.0	2216038.0	0.358983	Y
6	ICIS 280-621220/16	50.0	19.337892	50.0	2317582.0	0.386758	Y
7	IC 280-621220/15	75.0	29.149054	50.0	2262624.0	0.388654	Y
8	IC 280-621220/14	100.0	39.764362	50.0	2263977.0	0.397644	Y
9	IC 280-621220/13	200.0	83.91612	50.0	2209843.0	0.419581	Y



Calibration

/ Ethyl methacrylate

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

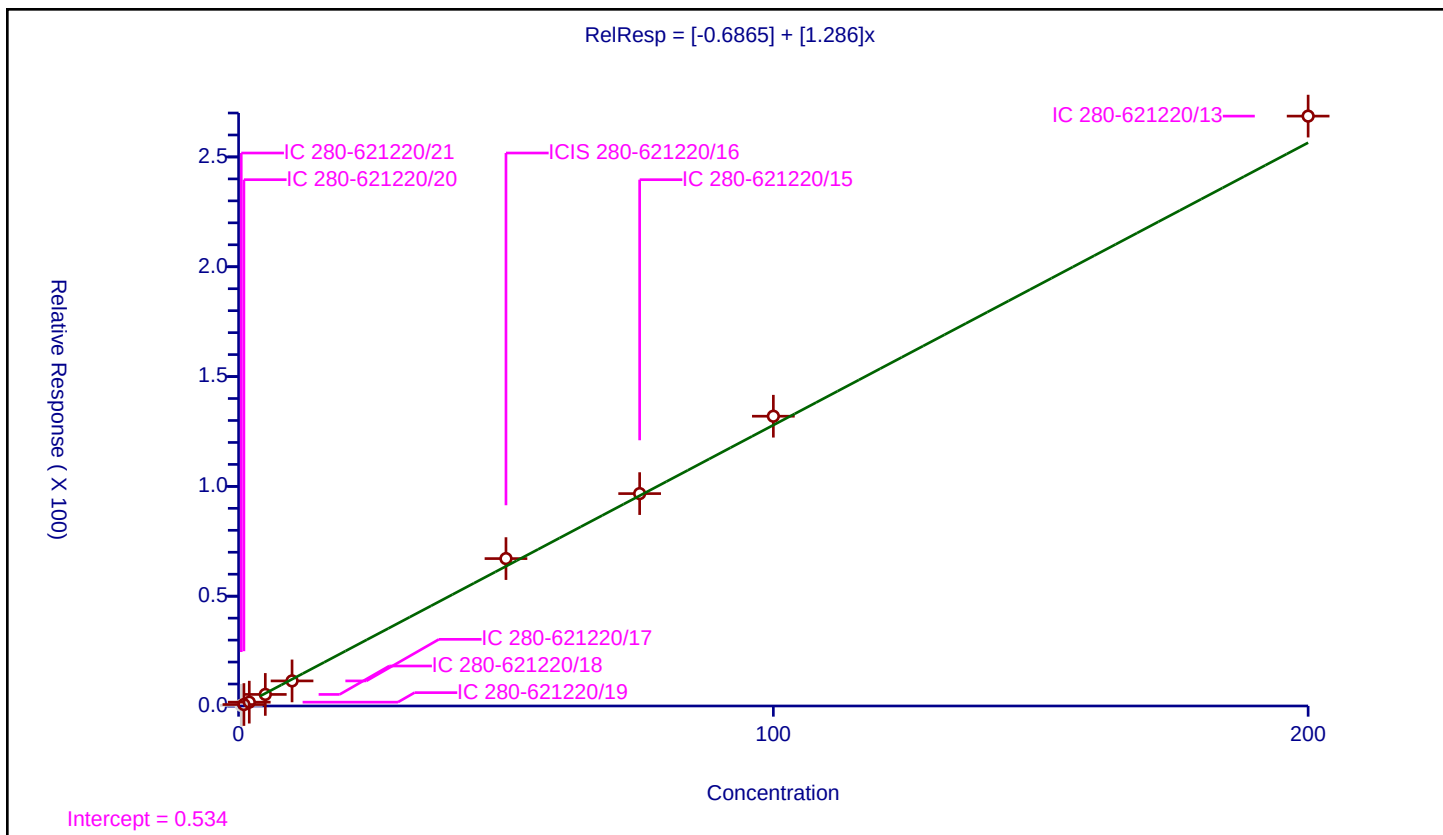
Curve Coefficients

Intercept: -0.6865
Slope: 1.286

Error Coefficients

Standard Error: 1510000
Relative Standard Error: 5.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.284528	50.0	492571.0	0.569055	N
2	IC 280-621220/20	1.0	0.660553	50.0	515326.0	0.660553	Y
3	IC 280-621220/19	2.0	1.738469	50.0	532739.0	0.869234	Y
4	IC 280-621220/18	5.0	5.263034	50.0	530920.0	1.052607	Y
5	IC 280-621220/17	10.0	11.415244	50.0	540571.0	1.141524	Y
6	ICIS 280-621220/16	50.0	67.110374	50.0	571323.0	1.342207	Y
7	IC 280-621220/15	75.0	96.70566	50.0	573514.0	1.289409	Y
8	IC 280-621220/14	100.0	131.947561	50.0	570801.0	1.319476	Y
9	IC 280-621220/13	200.0	268.592142	50.0	574369.0	1.342961	Y



Calibration

/ 1,1,2-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

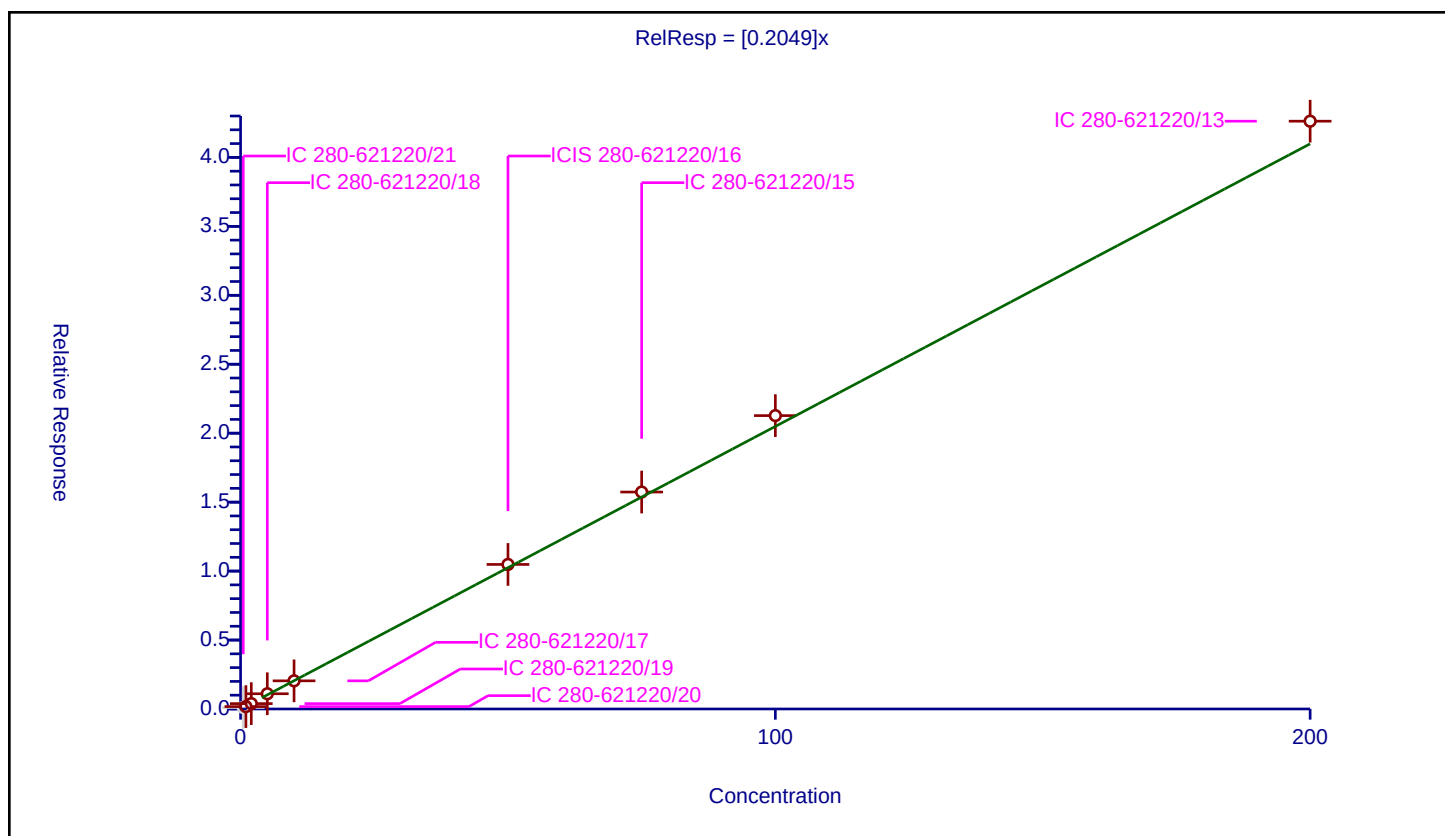
Curve Coefficients

Intercept: 0
Slope: 0.2049

Error Coefficients

Standard Error: 864000
Relative Standard Error: 7.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.10705	50.0	2022878.0	0.214101	N
2	IC 280-621220/20	1.0	0.173778	50.0	2130300.0	0.173778	Y
3	IC 280-621220/19	2.0	0.390343	50.0	2179494.0	0.195171	Y
4	IC 280-621220/18	5.0	1.104755	50.0	2161519.0	0.220951	Y
5	IC 280-621220/17	10.0	2.041887	50.0	2216038.0	0.204189	Y
6	ICIS 280-621220/16	50.0	10.481485	50.0	2317582.0	0.20963	Y
7	IC 280-621220/15	75.0	15.732287	50.0	2262624.0	0.209764	Y
8	IC 280-621220/14	100.0	21.274222	50.0	2263977.0	0.212742	Y
9	IC 280-621220/13	200.0	42.624431	50.0	2209843.0	0.213122	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

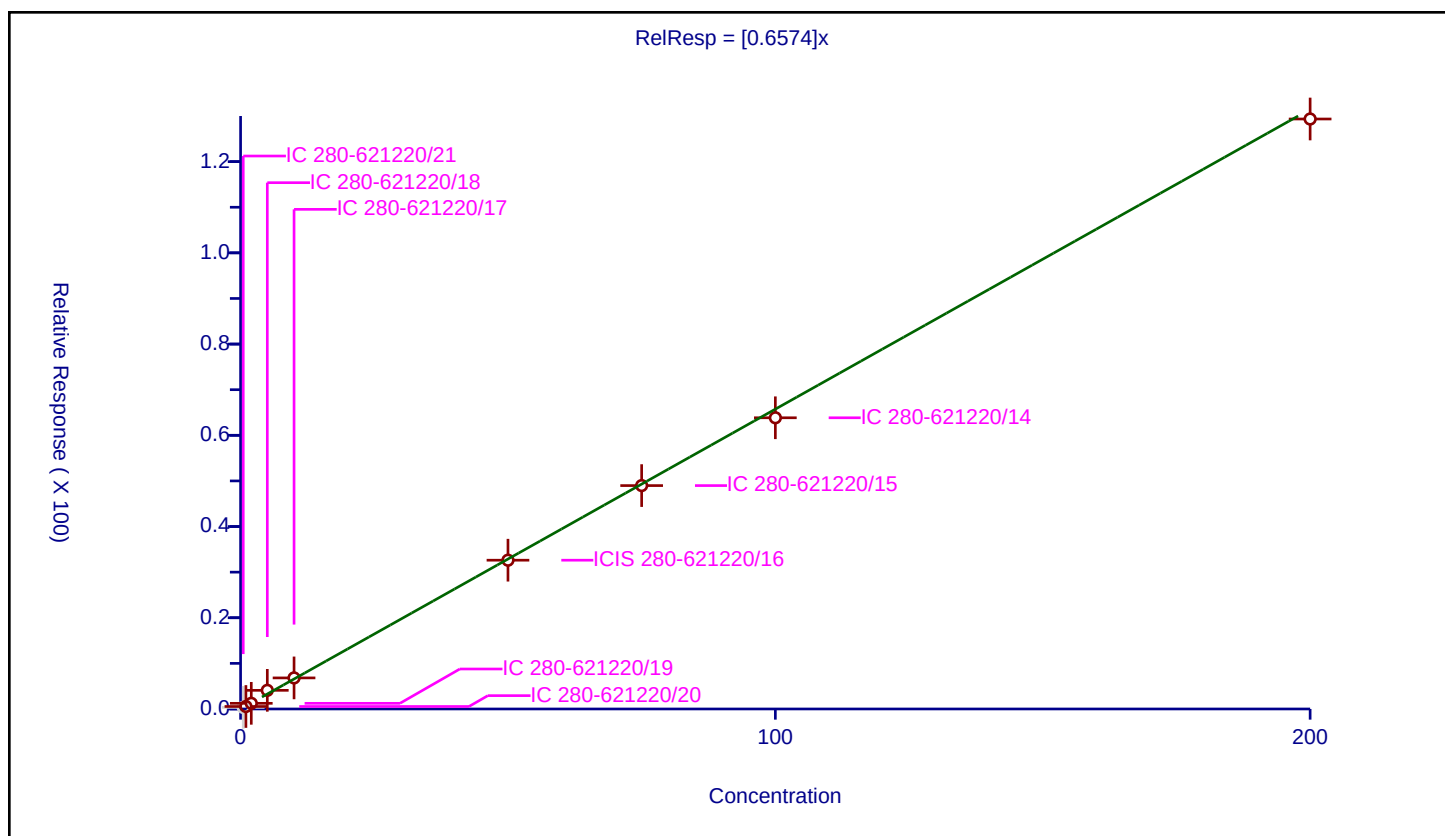
Curve Coefficients

Intercept: 0
Slope: 0.6574

Error Coefficients

Standard Error: 676000
Relative Standard Error: 11.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.347666	50.0	492571.0	0.695331	N
2	IC 280-621220/20	1.0	0.548779	50.0	515326.0	0.548779	Y
3	IC 280-621220/19	2.0	1.24179	50.0	532739.0	0.620895	Y
4	IC 280-621220/18	5.0	4.087151	50.0	530920.0	0.81743	Y
5	IC 280-621220/17	10.0	6.812981	50.0	540571.0	0.681298	Y
6	ICIS 280-621220/16	50.0	32.617276	50.0	571323.0	0.652346	Y
7	IC 280-621220/15	75.0	48.97727	50.0	573514.0	0.65303	Y
8	IC 280-621220/14	100.0	63.843091	50.0	570801.0	0.638431	Y
9	IC 280-621220/13	200.0	129.342896	50.0	574369.0	0.646714	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

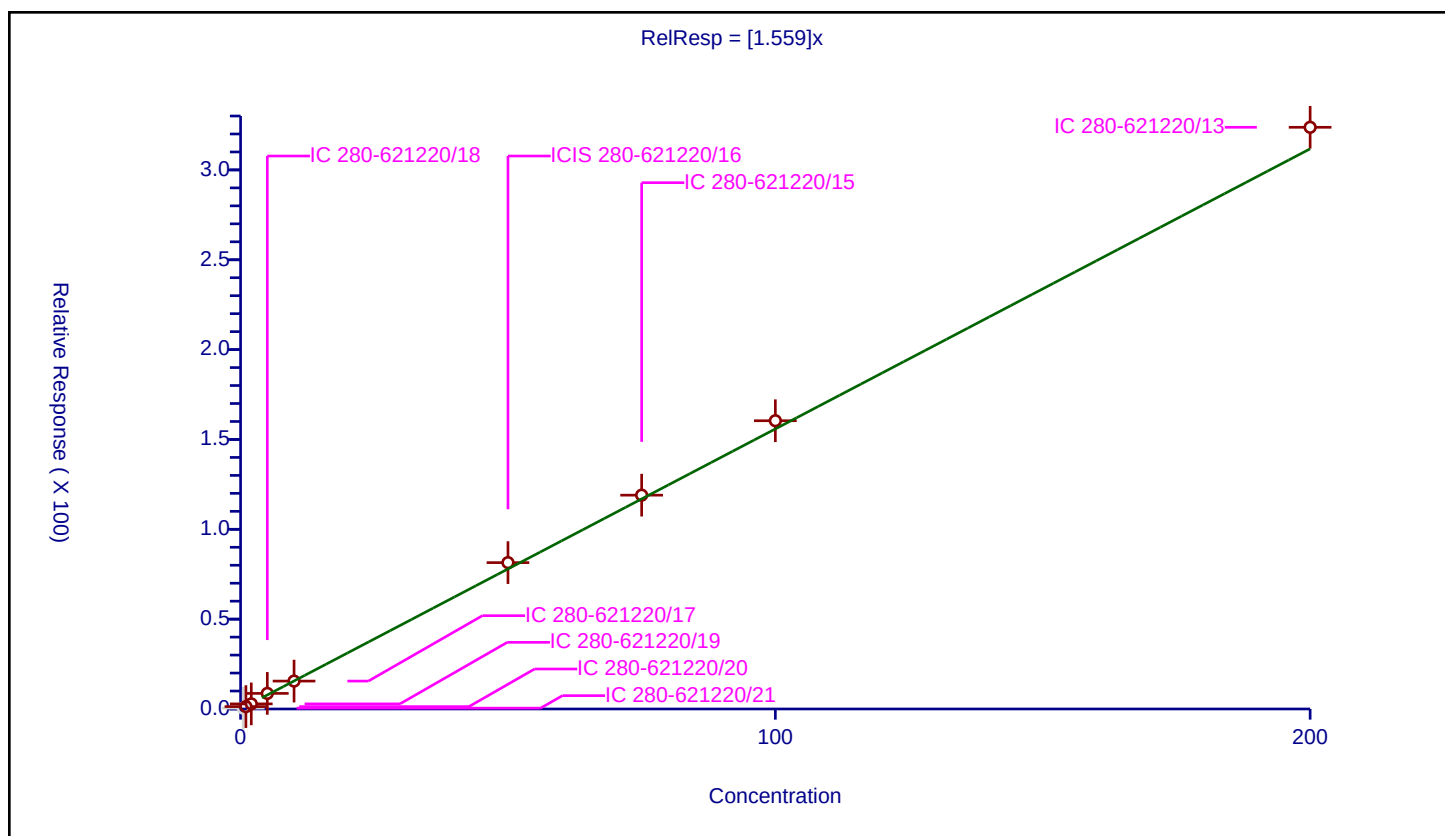
Curve Coefficients

Intercept: 0
 Slope: 1.559

Error Coefficients

Standard Error: 1690000
 Relative Standard Error: 8.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.47587	50.0	492571.0	0.951741	N
2	IC 280-621220/20	1.0	1.324113	50.0	515326.0	1.324113	Y
3	IC 280-621220/19	2.0	2.840134	50.0	532739.0	1.420067	Y
4	IC 280-621220/18	5.0	8.667408	50.0	530920.0	1.733482	Y
5	IC 280-621220/17	10.0	15.53191	50.0	540571.0	1.553191	Y
6	ICIS 280-621220/16	50.0	81.450073	50.0	571323.0	1.629001	Y
7	IC 280-621220/15	75.0	119.004941	50.0	573514.0	1.586733	Y
8	IC 280-621220/14	100.0	160.419218	50.0	570801.0	1.604192	Y
9	IC 280-621220/13	200.0	323.722816	50.0	574369.0	1.618614	Y



Calibration

/ 2-Hexanone

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

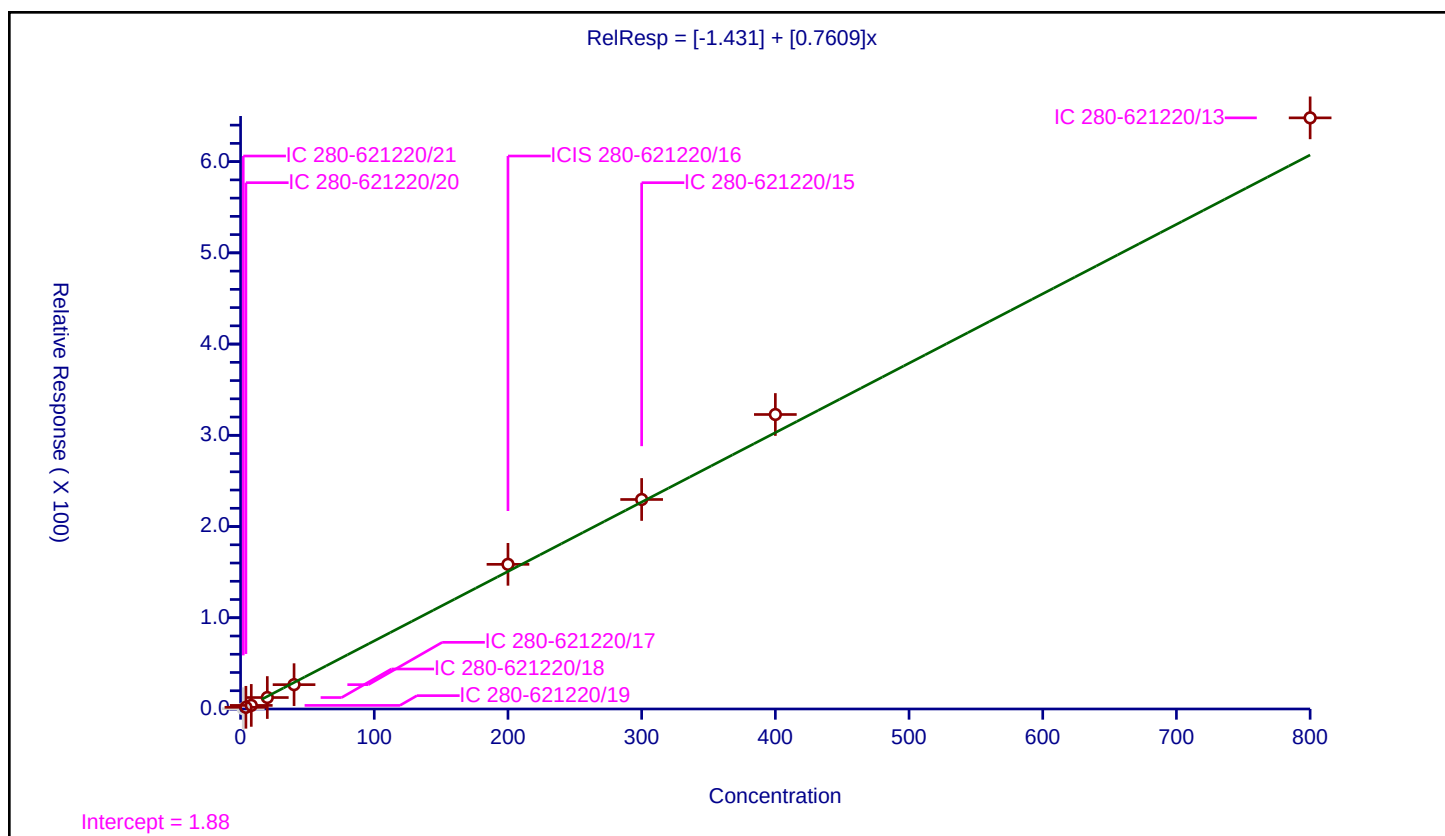
Curve Coefficients

Intercept: -1.431
Slope: 0.7609

Error Coefficients

Standard Error: 3640000
Relative Standard Error: 8.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	2.0	0.31904	50.0	492571.0	0.15952	N
2	IC 280-621220/20	4.0	1.860376	50.0	515326.0	0.465094	Y
3	IC 280-621220/19	8.0	3.926407	50.0	532739.0	0.490801	Y
4	IC 280-621220/18	20.0	12.559425	50.0	530920.0	0.627971	Y
5	IC 280-621220/17	40.0	26.665692	50.0	540571.0	0.666642	Y
6	ICIS 280-621220/16	200.0	158.551642	50.0	571323.0	0.792758	Y
7	IC 280-621220/15	300.0	229.653505	50.0	573514.0	0.765512	Y
8	IC 280-621220/14	400.0	322.825118	50.0	570801.0	0.807063	Y
9	IC 280-621220/13	800.0	647.971687	50.0	574369.0	0.809965	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

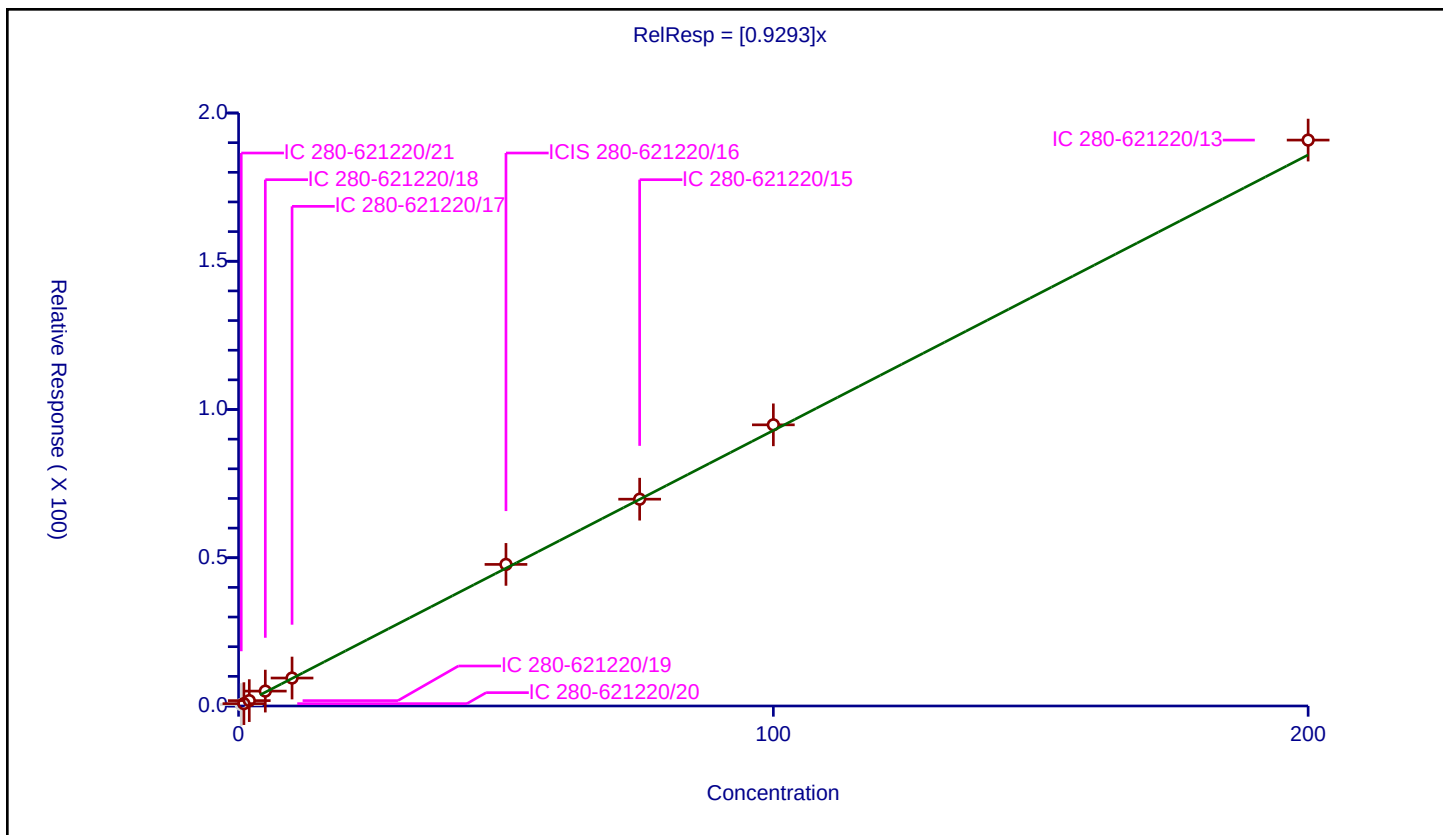
Curve Coefficients

Intercept: 0
Slope: 0.9293

Error Coefficients

Standard Error: 995000
Relative Standard Error: 6.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.479119	50.0	492571.0	0.958237	N
2	IC 280-621220/20	1.0	0.795322	50.0	515326.0	0.795322	Y
3	IC 280-621220/19	2.0	1.808203	50.0	532739.0	0.904101	Y
4	IC 280-621220/18	5.0	5.023073	50.0	530920.0	1.004615	Y
5	IC 280-621220/17	10.0	9.427069	50.0	540571.0	0.942707	Y
6	ICIS 280-621220/16	50.0	47.755823	50.0	571323.0	0.955116	Y
7	IC 280-621220/15	75.0	69.759064	50.0	573514.0	0.930121	Y
8	IC 280-621220/14	100.0	94.832963	50.0	570801.0	0.94833	Y
9	IC 280-621220/13	200.0	190.868066	50.0	574369.0	0.95434	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

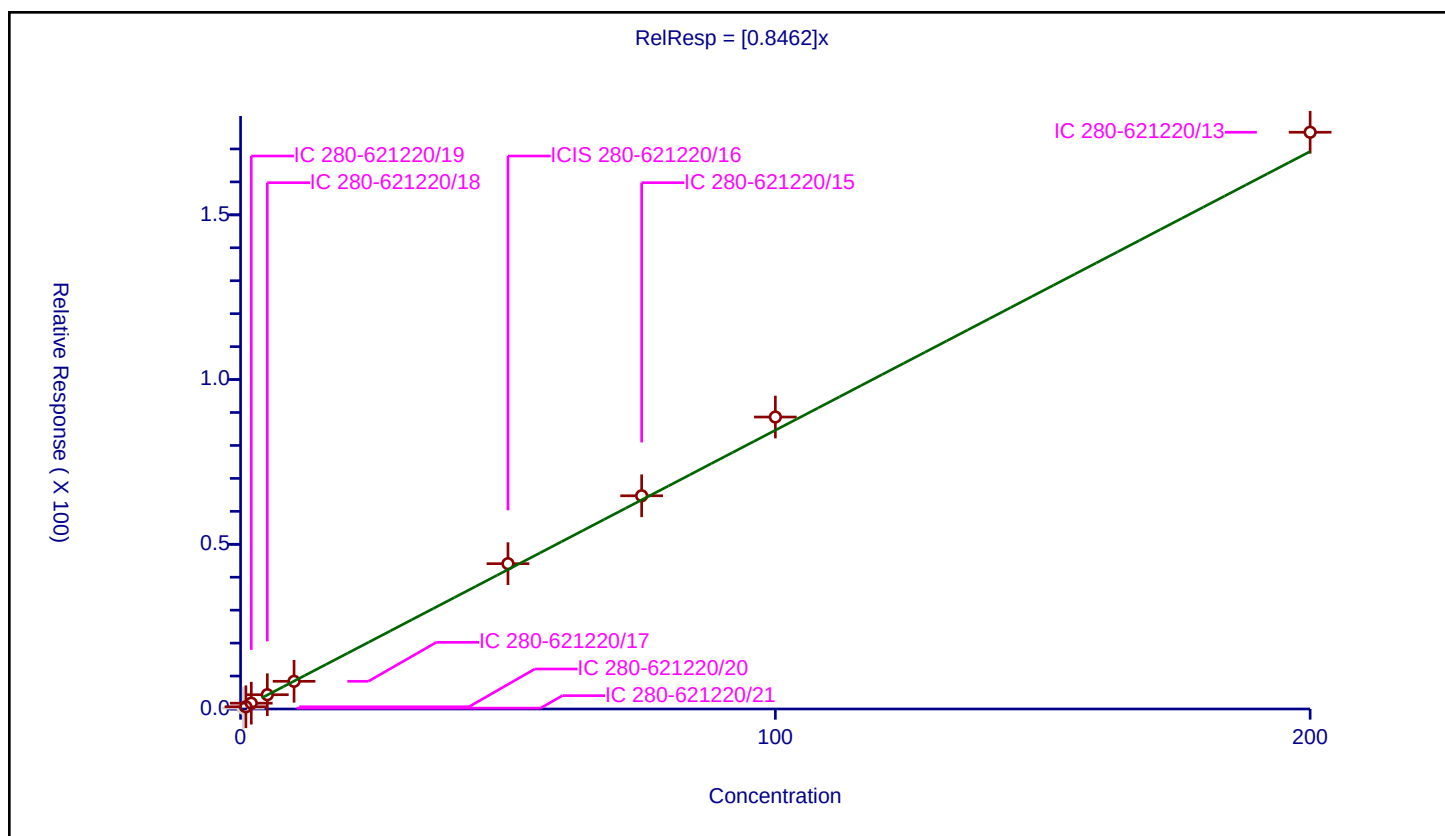
Curve Coefficients

Intercept: 0
Slope: 0.8462

Error Coefficients

Standard Error: 917000
Relative Standard Error: 8.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.263617	50.0	492571.0	0.527234	N
2	IC 280-621220/20	1.0	0.67433	50.0	515326.0	0.67433	Y
3	IC 280-621220/19	2.0	1.762214	50.0	532739.0	0.881107	Y
4	IC 280-621220/18	5.0	4.333704	50.0	530920.0	0.866741	Y
5	IC 280-621220/17	10.0	8.405371	50.0	540571.0	0.840537	Y
6	ICIS 280-621220/16	50.0	44.11165	50.0	571323.0	0.882233	Y
7	IC 280-621220/15	75.0	64.723529	50.0	573514.0	0.86298	Y
8	IC 280-621220/14	100.0	88.624494	50.0	570801.0	0.886245	Y
9	IC 280-621220/13	200.0	175.067074	50.0	574369.0	0.875335	Y



Calibration

/ 1-Chlorohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

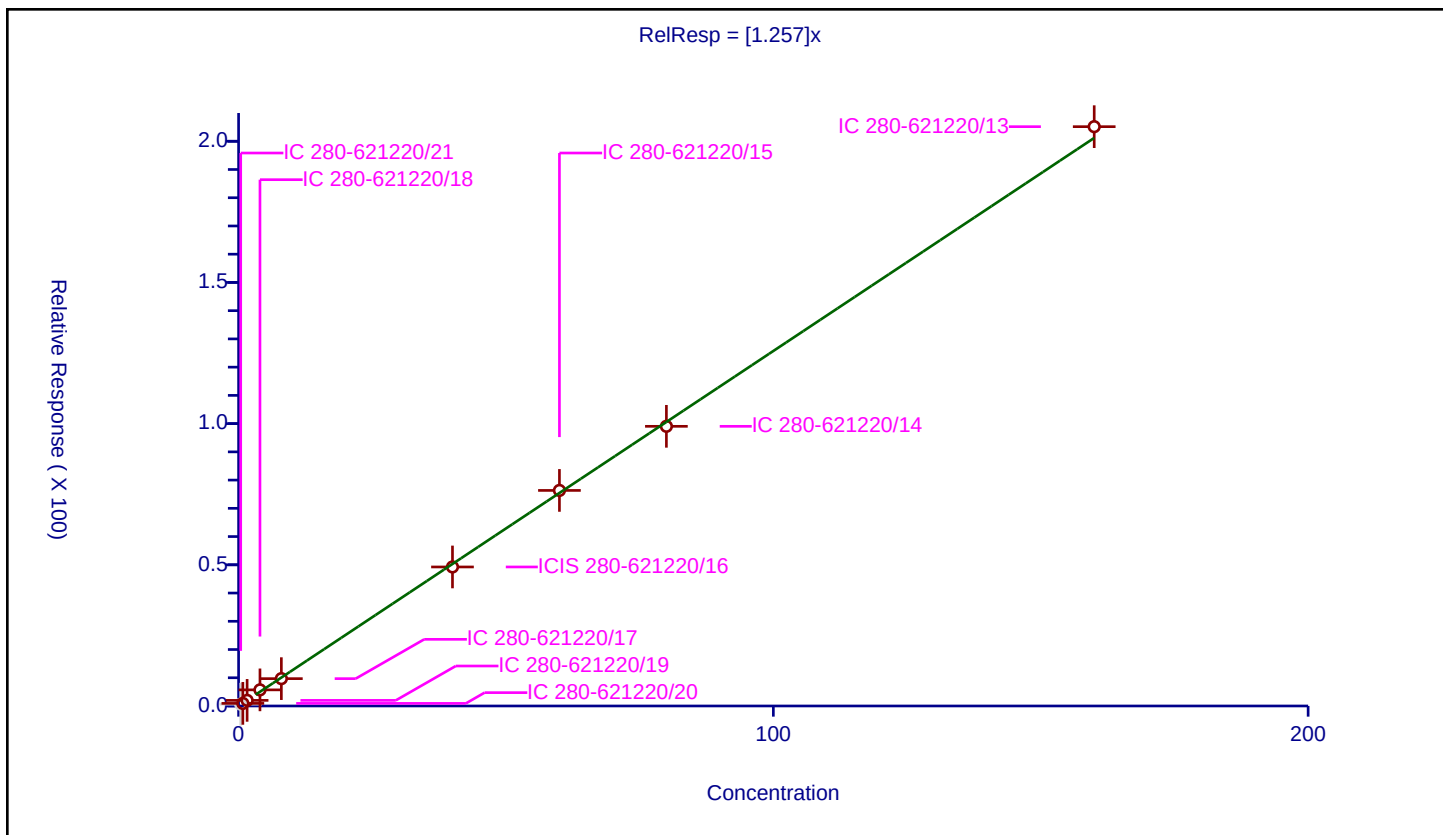
Curve Coefficients

Intercept: 0
Slope: 1.257

Error Coefficients

Standard Error: 1060000
Relative Standard Error: 6.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.4	0.651277	50.0	492571.0	1.628192	N
2	IC 280-621220/20	0.8	0.925434	50.0	515326.0	1.156792	Y
3	IC 280-621220/19	1.6	1.983523	50.0	532739.0	1.239702	Y
4	IC 280-621220/18	4.0	5.708016	50.0	530920.0	1.427004	Y
5	IC 280-621220/17	8.0	9.688182	50.0	540571.0	1.211023	Y
6	ICIS 280-621220/16	40.0	49.240097	50.0	571323.0	1.231002	Y
7	IC 280-621220/15	60.0	76.343646	50.0	573514.0	1.272394	Y
8	IC 280-621220/14	80.0	99.046866	50.0	570801.0	1.238086	Y
9	IC 280-621220/13	160.0	205.164015	50.0	574369.0	1.282275	Y



Calibration

/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

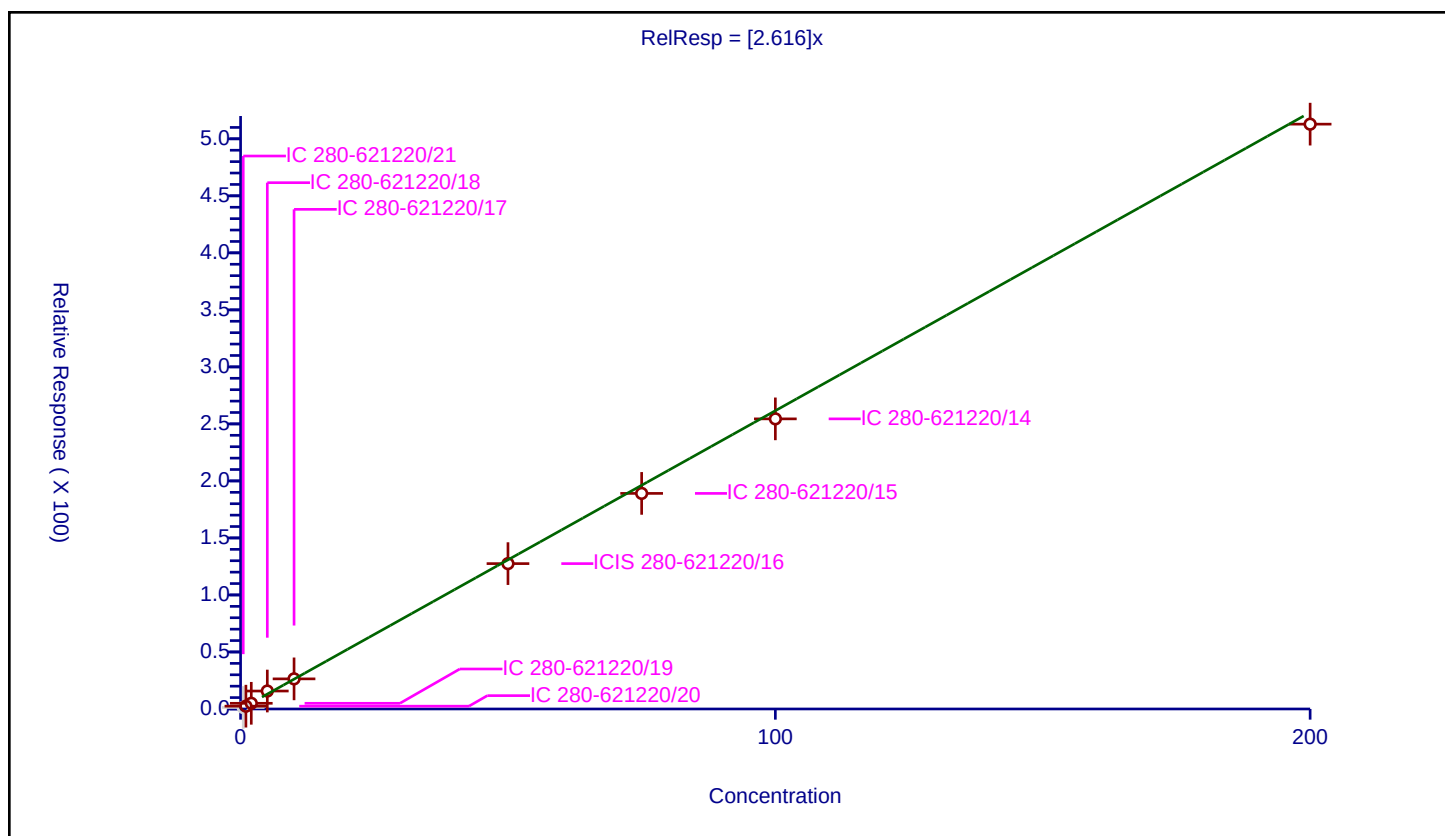
Curve Coefficients

Intercept: 0
 Slope: 2.616

Error Coefficients

Standard Error: 2670000
 Relative Standard Error: 8.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	1.331991	50.0	492571.0	2.663981	N
2	IC 280-621220/20	1.0	2.458541	50.0	515326.0	2.458541	Y
3	IC 280-621220/19	2.0	4.991469	50.0	532739.0	2.495734	Y
4	IC 280-621220/18	5.0	15.754257	50.0	530920.0	3.150851	Y
5	IC 280-621220/17	10.0	26.418916	50.0	540571.0	2.641892	Y
6	ICIS 280-621220/16	50.0	127.48314	50.0	571323.0	2.549663	Y
7	IC 280-621220/15	75.0	189.053449	50.0	573514.0	2.520713	Y
8	IC 280-621220/14	100.0	254.426762	50.0	570801.0	2.544268	Y
9	IC 280-621220/13	200.0	512.862985	50.0	574369.0	2.564315	Y



Calibration

/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

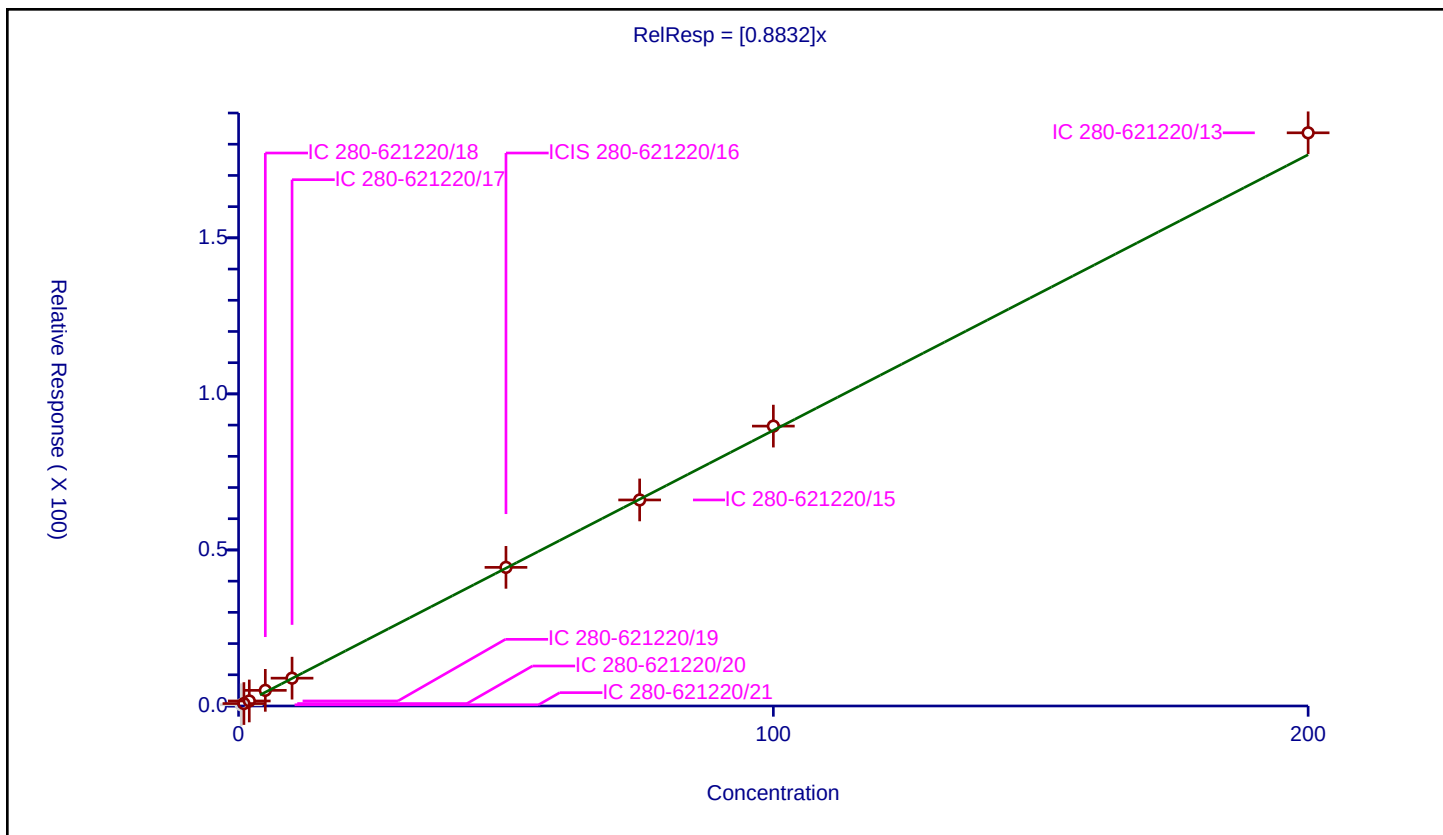
Curve Coefficients

Intercept: 0
 Slope: 0.8832

Error Coefficients

Standard Error: 952000
 Relative Standard Error: 7.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.401262	50.0	492571.0	0.802524	N
2	IC 280-621220/20	1.0	0.782126	50.0	515326.0	0.782126	Y
3	IC 280-621220/19	2.0	1.612046	50.0	532739.0	0.806023	Y
4	IC 280-621220/18	5.0	5.008382	50.0	530920.0	1.001676	Y
5	IC 280-621220/17	10.0	8.920105	50.0	540571.0	0.89201	Y
6	ICIS 280-621220/16	50.0	44.414631	50.0	571323.0	0.888293	Y
7	IC 280-621220/15	75.0	66.01661	50.0	573514.0	0.880221	Y
8	IC 280-621220/14	100.0	89.67705	50.0	570801.0	0.896771	Y
9	IC 280-621220/13	200.0	183.655629	50.0	574369.0	0.918278	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

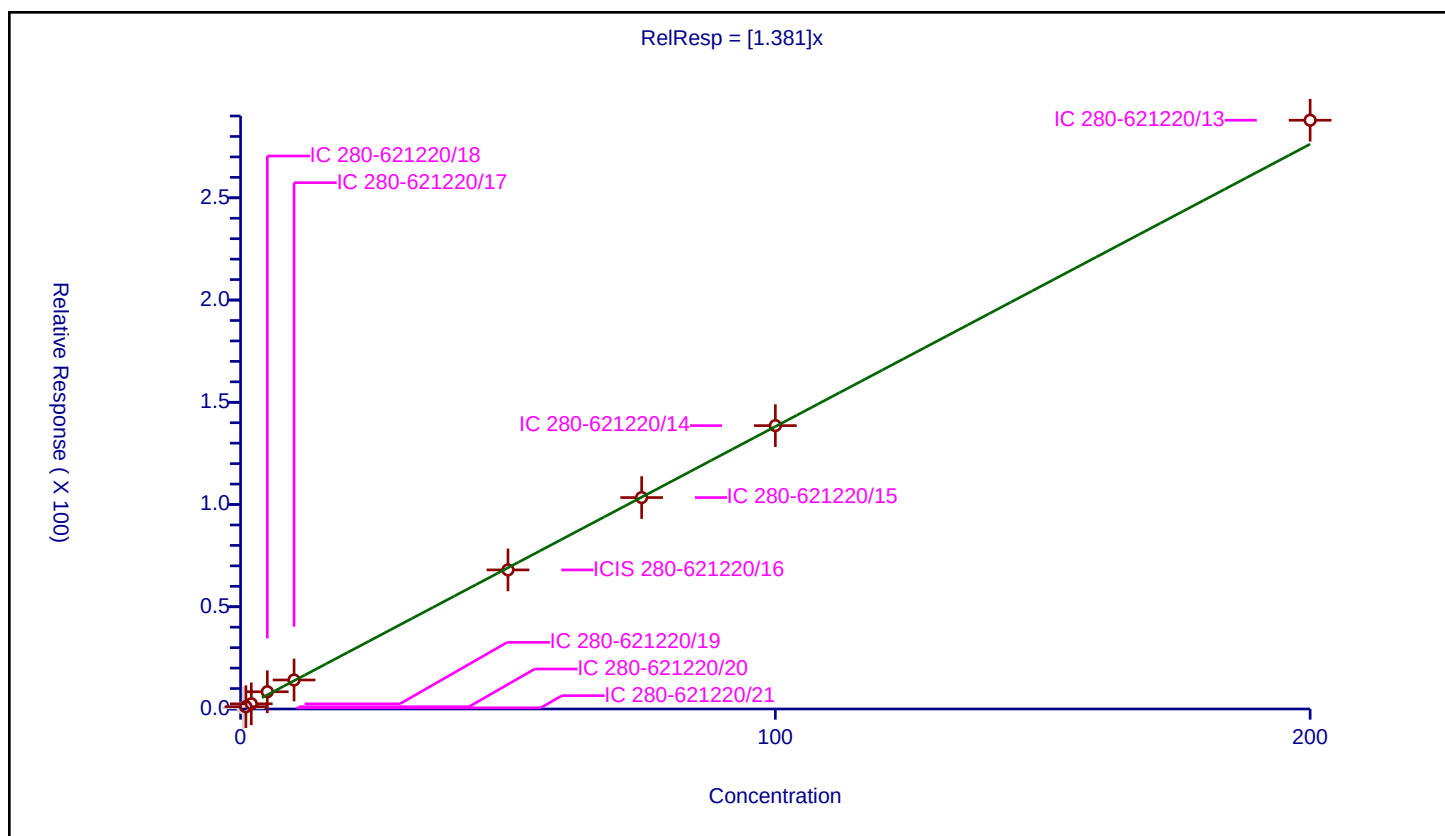
Curve Coefficients

Intercept: 0
Slope: 1.381

Error Coefficients

Standard Error: 1490000
Relative Standard Error: 11.6
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.569461	50.0	492571.0	1.138922	N
2	IC 280-621220/20	1.0	1.119291	50.0	515326.0	1.119291	Y
3	IC 280-621220/19	2.0	2.524876	50.0	532739.0	1.262438	Y
4	IC 280-621220/18	5.0	8.428294	50.0	530920.0	1.685659	Y
5	IC 280-621220/17	10.0	14.179174	50.0	540571.0	1.417917	Y
6	ICIS 280-621220/16	50.0	68.02203	50.0	571323.0	1.360441	Y
7	IC 280-621220/15	75.0	103.405497	50.0	573514.0	1.37874	Y
8	IC 280-621220/14	100.0	138.584288	50.0	570801.0	1.385843	Y
9	IC 280-621220/13	200.0	287.941202	50.0	574369.0	1.439706	Y



Calibration

/ m-Xylene & p-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

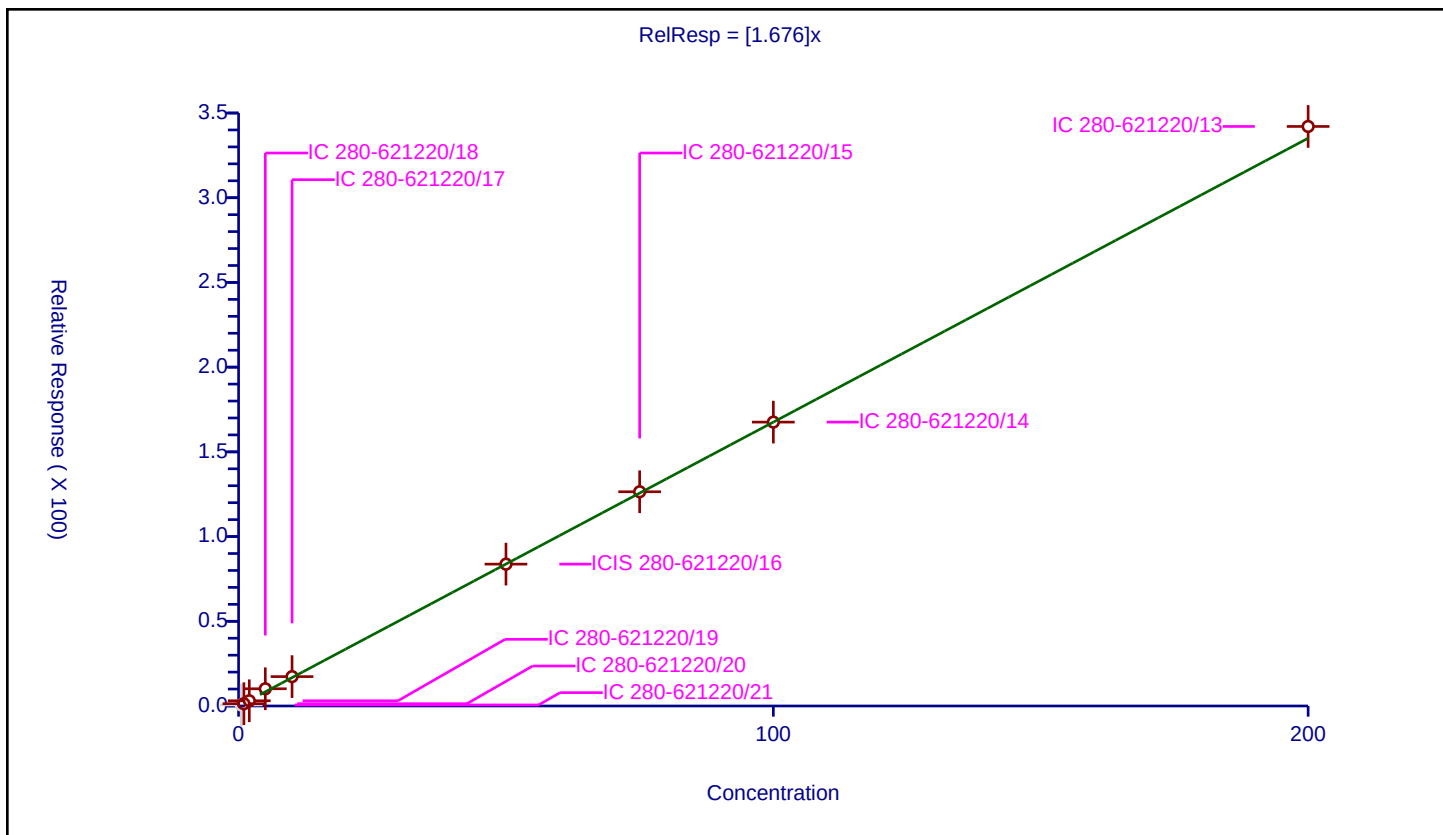
Curve Coefficients

Intercept: 0
 Slope: 1.676

Error Coefficients

Standard Error: 1780000
 Relative Standard Error: 11.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.617474	50.0	492571.0	1.234949	N
2	IC 280-621220/20	1.0	1.355356	50.0	515326.0	1.355356	Y
3	IC 280-621220/19	2.0	3.076553	50.0	532739.0	1.538277	Y
4	IC 280-621220/18	5.0	10.154826	50.0	530920.0	2.030965	Y
5	IC 280-621220/17	10.0	17.343698	50.0	540571.0	1.73437	Y
6	ICIS 280-621220/16	50.0	83.722693	50.0	571323.0	1.674454	Y
7	IC 280-621220/15	75.0	126.4453	50.0	573514.0	1.685937	Y
8	IC 280-621220/14	100.0	167.551213	50.0	570801.0	1.675512	Y
9	IC 280-621220/13	200.0	342.067643	50.0	574369.0	1.710338	Y



Calibration

/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

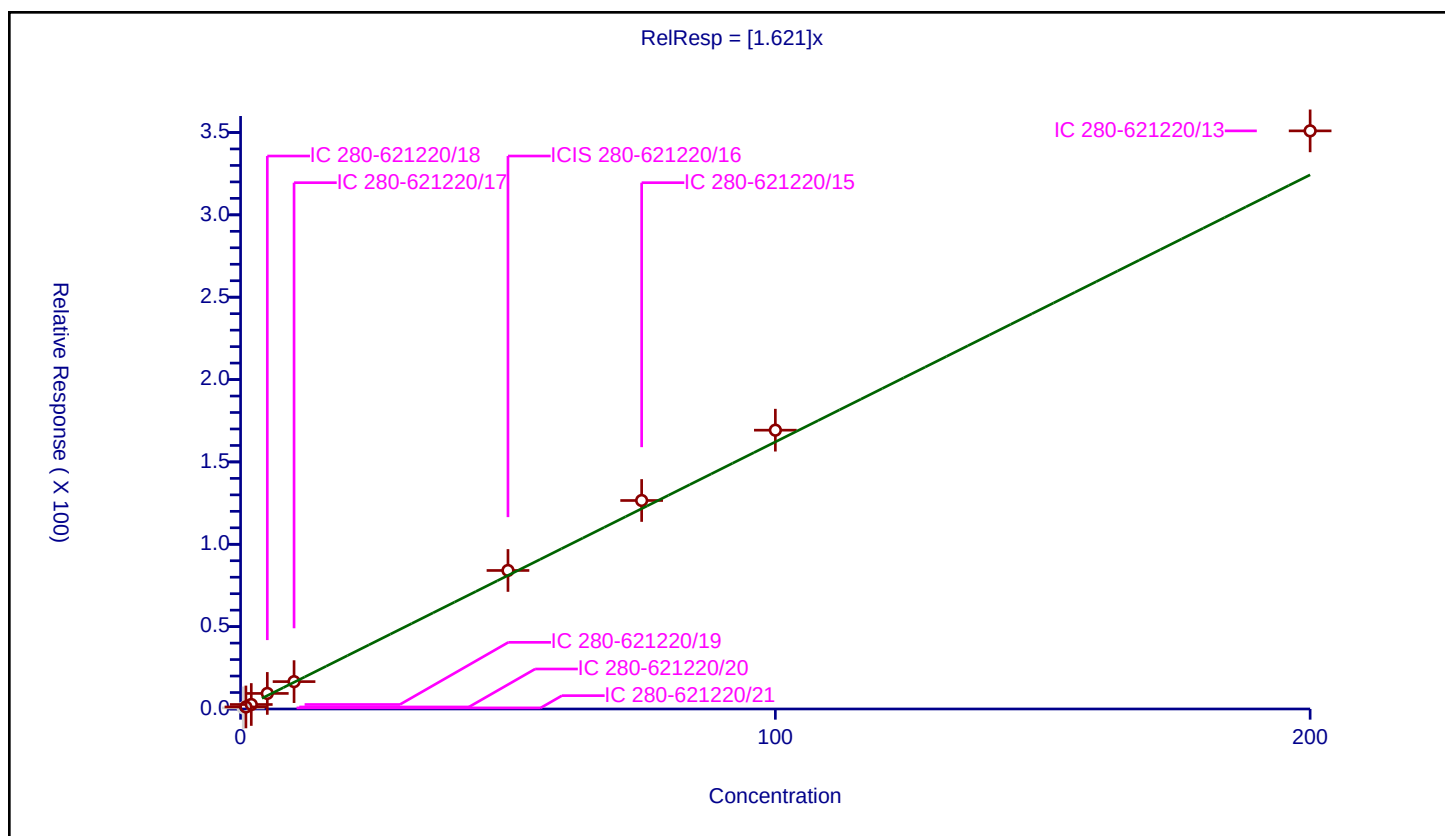
Curve Coefficients

Intercept: 0
 Slope: 1.621

Error Coefficients

Standard Error: 1820000
 Relative Standard Error: 13.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.674522	50.0	492571.0	1.349044	N
2	IC 280-621220/20	1.0	1.236208	50.0	515326.0	1.236208	Y
3	IC 280-621220/19	2.0	2.734172	50.0	532739.0	1.367086	Y
4	IC 280-621220/18	5.0	9.451236	50.0	530920.0	1.890247	Y
5	IC 280-621220/17	10.0	16.610399	50.0	540571.0	1.66104	Y
6	ICIS 280-621220/16	50.0	84.090348	50.0	571323.0	1.681807	Y
7	IC 280-621220/15	75.0	126.57895	50.0	573514.0	1.687719	Y
8	IC 280-621220/14	100.0	169.270201	50.0	570801.0	1.692702	Y
9	IC 280-621220/13	200.0	350.984646	50.0	574369.0	1.754923	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

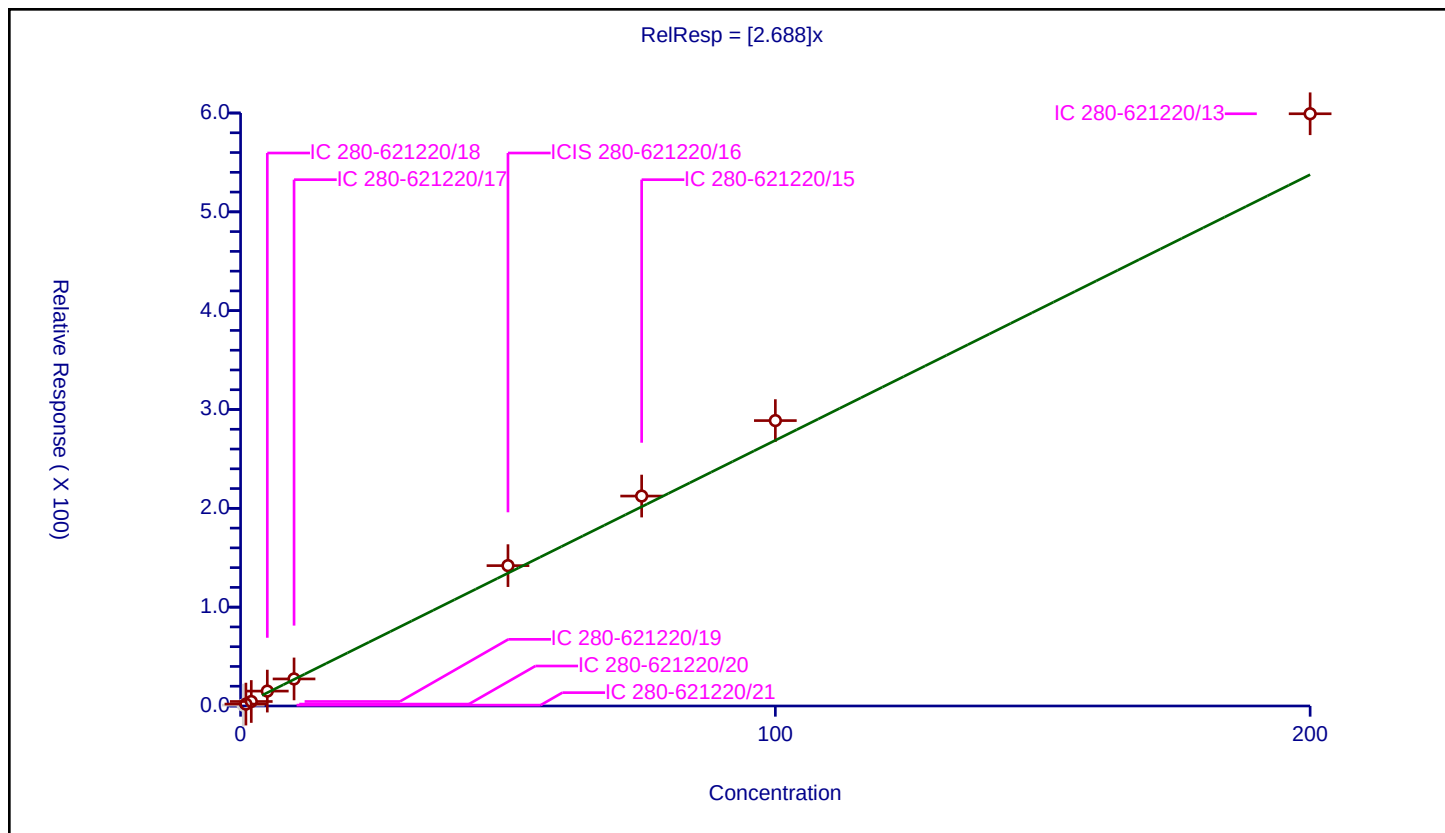
Curve Coefficients

Intercept: 0
Slope: 2.688

Error Coefficients

Standard Error: 3090000
Relative Standard Error: 14.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.874798	50.0	492571.0	1.749595	N
2	IC 280-621220/20	1.0	1.920144	50.0	515326.0	1.920144	Y
3	IC 280-621220/19	2.0	4.549883	50.0	532739.0	2.274941	Y
4	IC 280-621220/18	5.0	15.079296	50.0	530920.0	3.015859	Y
5	IC 280-621220/17	10.0	27.375682	50.0	540571.0	2.737568	Y
6	ICIS 280-621220/16	50.0	142.035241	50.0	571323.0	2.840705	Y
7	IC 280-621220/15	75.0	212.411816	50.0	573514.0	2.832158	Y
8	IC 280-621220/14	100.0	288.778488	50.0	570801.0	2.887785	Y
9	IC 280-621220/13	200.0	599.232201	50.0	574369.0	2.996161	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

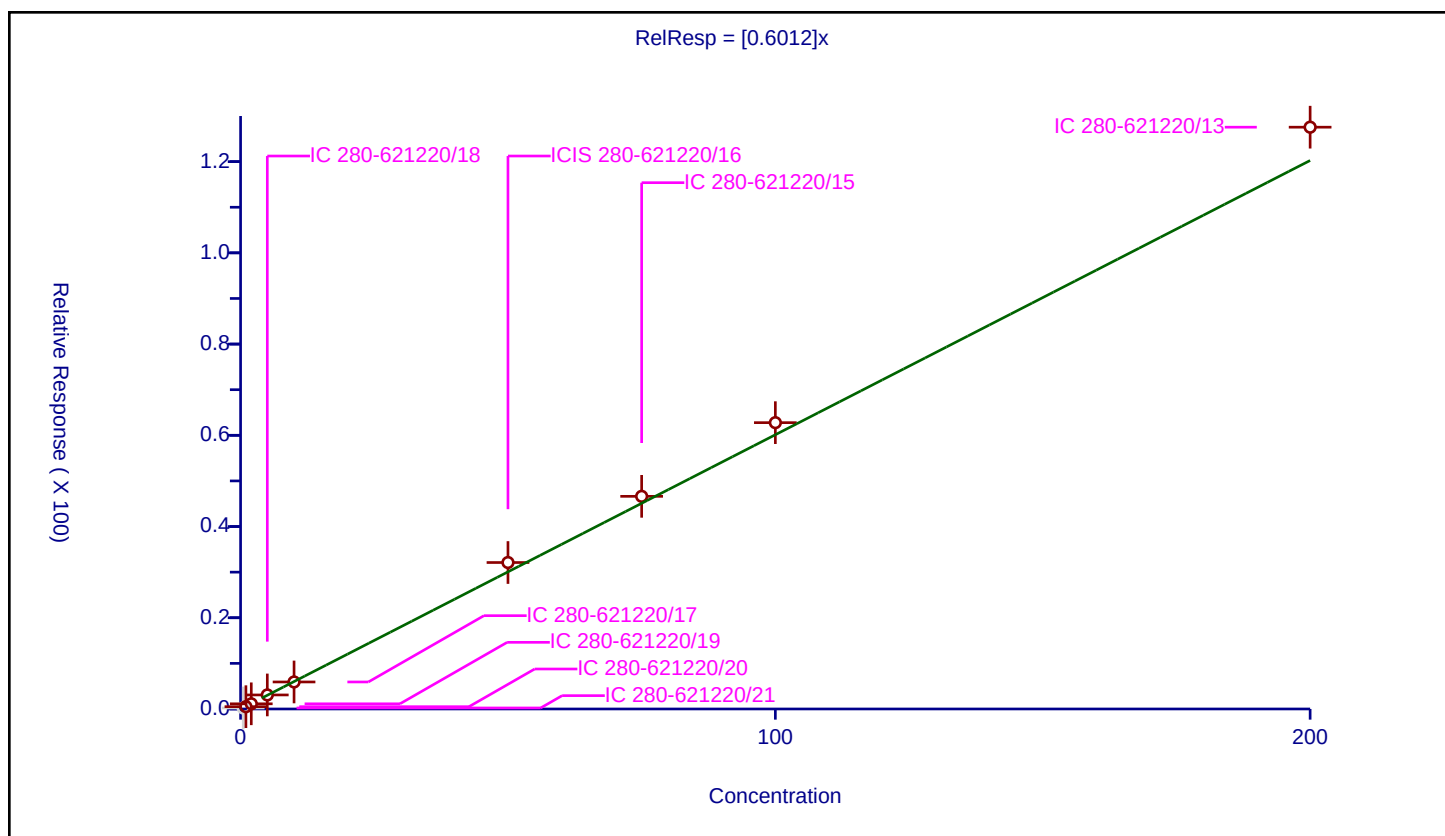
Curve Coefficients

Intercept: 0
Slope: 0.6012

Error Coefficients

Standard Error: 664000
Relative Standard Error: 7.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.224638	50.0	492571.0	0.449275	N
2	IC 280-621220/20	1.0	0.504438	50.0	515326.0	0.504438	Y
3	IC 280-621220/19	2.0	1.135453	50.0	532739.0	0.567726	Y
4	IC 280-621220/18	5.0	3.080784	50.0	530920.0	0.616157	Y
5	IC 280-621220/17	10.0	5.922719	50.0	540571.0	0.592272	Y
6	ICIS 280-621220/16	50.0	32.11292	50.0	571323.0	0.642258	Y
7	IC 280-621220/15	75.0	46.623099	50.0	573514.0	0.621641	Y
8	IC 280-621220/14	100.0	62.772227	50.0	570801.0	0.627722	Y
9	IC 280-621220/13	200.0	127.552671	50.0	574369.0	0.637763	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

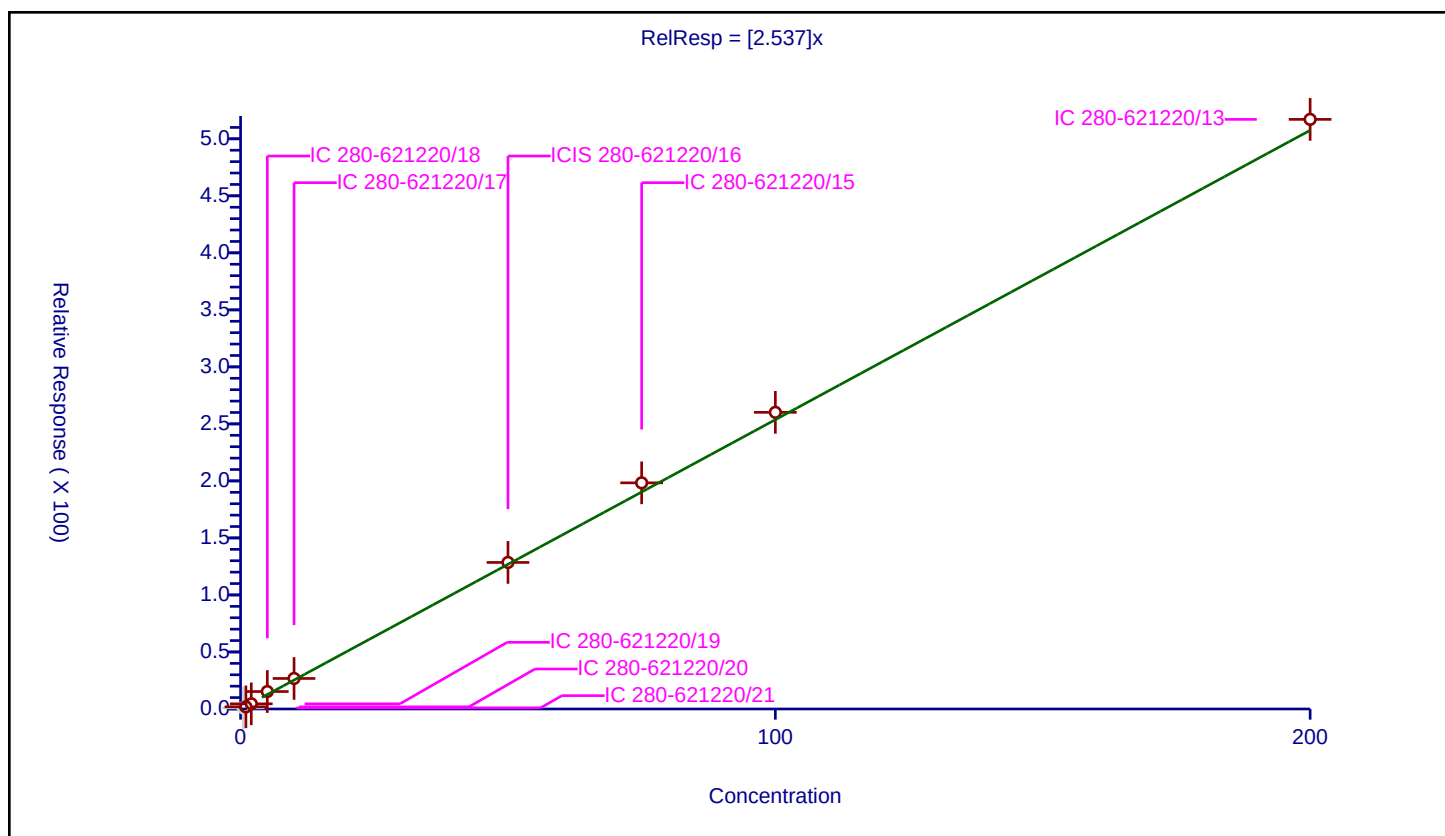
Curve Coefficients

Intercept: 0
Slope: 2.537

Error Coefficients

Standard Error: 4440000
Relative Standard Error: 13.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	1.006463	50.0	731522.0	2.012926	N
2	IC 280-621220/20	1.0	1.893445	50.0	789830.0	1.893445	Y
3	IC 280-621220/19	2.0	4.528636	50.0	834854.0	2.264318	Y
4	IC 280-621220/18	5.0	15.303837	50.0	841338.0	3.060767	Y
5	IC 280-621220/17	10.0	26.774603	50.0	852261.0	2.67746	Y
6	ICIS 280-621220/16	50.0	128.523293	50.0	917352.0	2.570466	Y
7	IC 280-621220/15	75.0	198.327356	50.0	902314.0	2.644365	Y
8	IC 280-621220/14	100.0	260.143176	50.0	909439.0	2.601432	Y
9	IC 280-621220/13	200.0	517.042401	50.0	951559.0	2.585212	Y



Calibration

/ Cyclohexanone

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

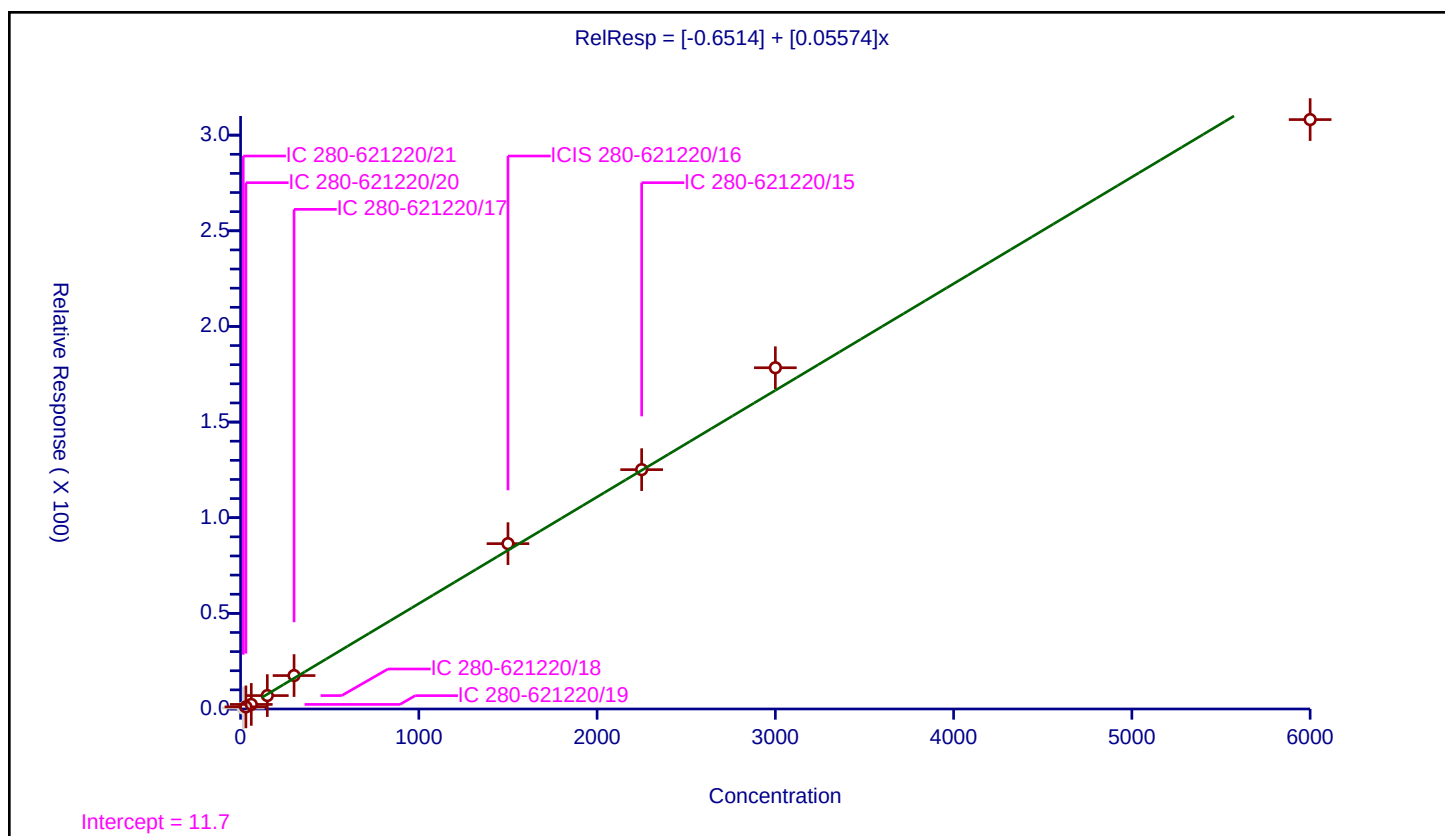
Curve Coefficients

Intercept: -0.6514
Slope: 0.05574

Error Coefficients

Standard Error: 1810000
Relative Standard Error: 7.9
Correlation Coefficient: 0.995
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	15.0	0.511297	50.0	492571.0	0.034086	N
2	IC 280-621220/20	30.0	1.10891	50.0	515326.0	0.036964	Y
3	IC 280-621220/19	60.0	2.38935	50.0	532739.0	0.039823	Y
4	IC 280-621220/18	150.0	7.010002	50.0	530920.0	0.046733	Y
5	IC 280-621220/17	300.0	17.470693	50.0	540571.0	0.058236	Y
6	ICIS 280-621220/16	1500.0	86.443658	50.0	571323.0	0.057629	Y
7	IC 280-621220/15	2250.0	125.134609	50.0	573514.0	0.055615	Y
8	IC 280-621220/14	3000.0	178.392908	50.0	570801.0	0.059464	Y
9	IC 280-621220/13	6000.0	308.12953	50.0	574369.0	0.051355	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

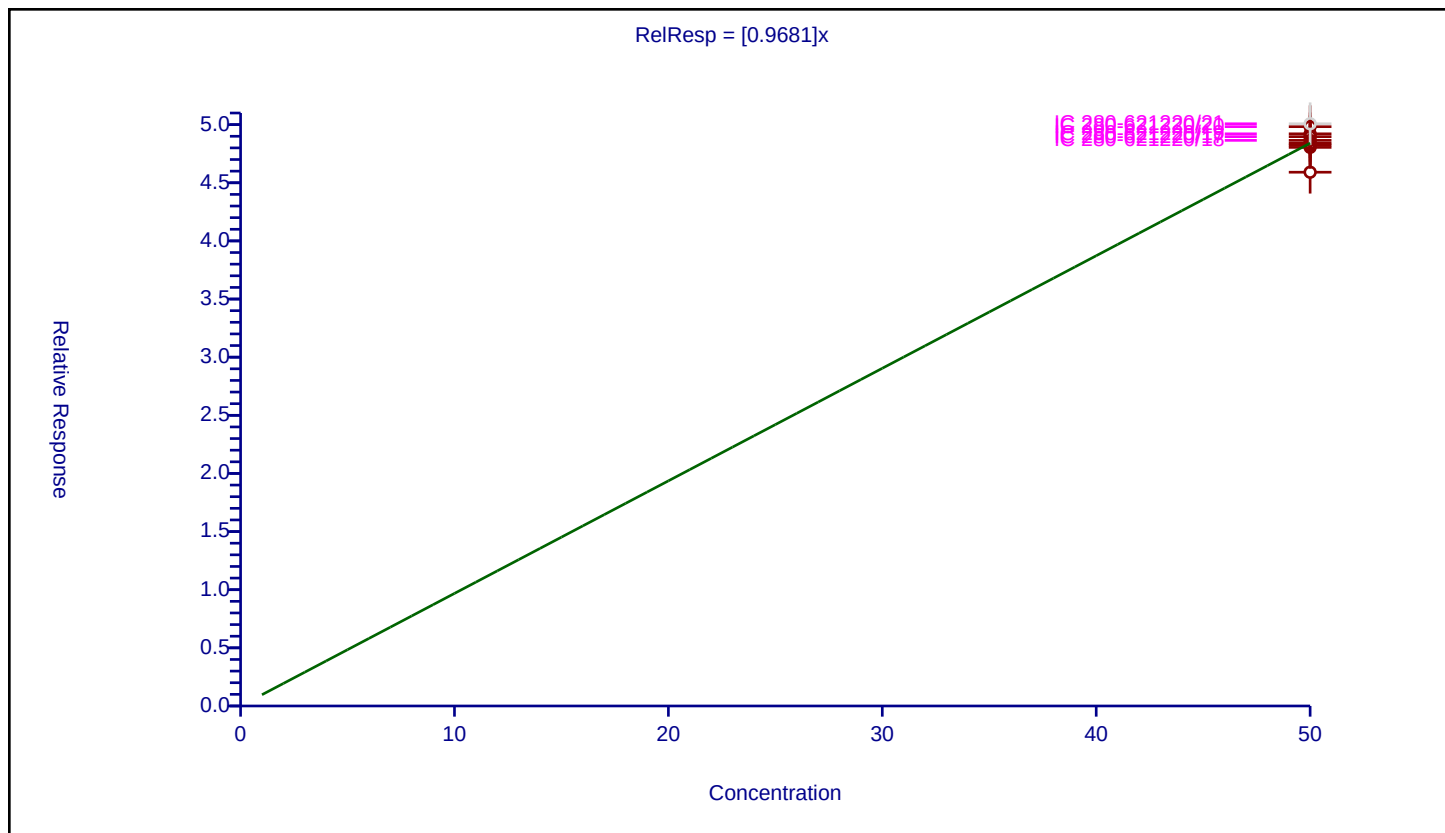
Curve Coefficients

Intercept: 0
Slope: 0.9681

Error Coefficients

Standard Error: 905000
Relative Standard Error: 2.4
Correlation Coefficient: 0
Coefficient of Determination (Adjusted): 0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/13	50.0	45.908556	50.0	951559.0	0.918171	Y
2	IC 280-621220/14	50.0	48.245897	50.0	909439.0	0.964918	Y
3	IC 280-621220/15	50.0	48.398894	50.0	902314.0	0.967978	Y
4	ICIS 280-621220/16	50.0	48.044426	50.0	917352.0	0.960889	Y
5	IC 280-621220/17	50.0	48.966455	50.0	852261.0	0.979329	Y
6	IC 280-621220/18	50.0	48.646085	50.0	841338.0	0.972922	Y
7	IC 280-621220/19	50.0	49.211778	50.0	834854.0	0.984236	Y
8	IC 280-621220/20	50.0	49.825405	50.0	789830.0	0.996508	Y
9	IC 280-621220/21	50.0	50.076484	50.0	731522.0	1.00153	N



Calibration

/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

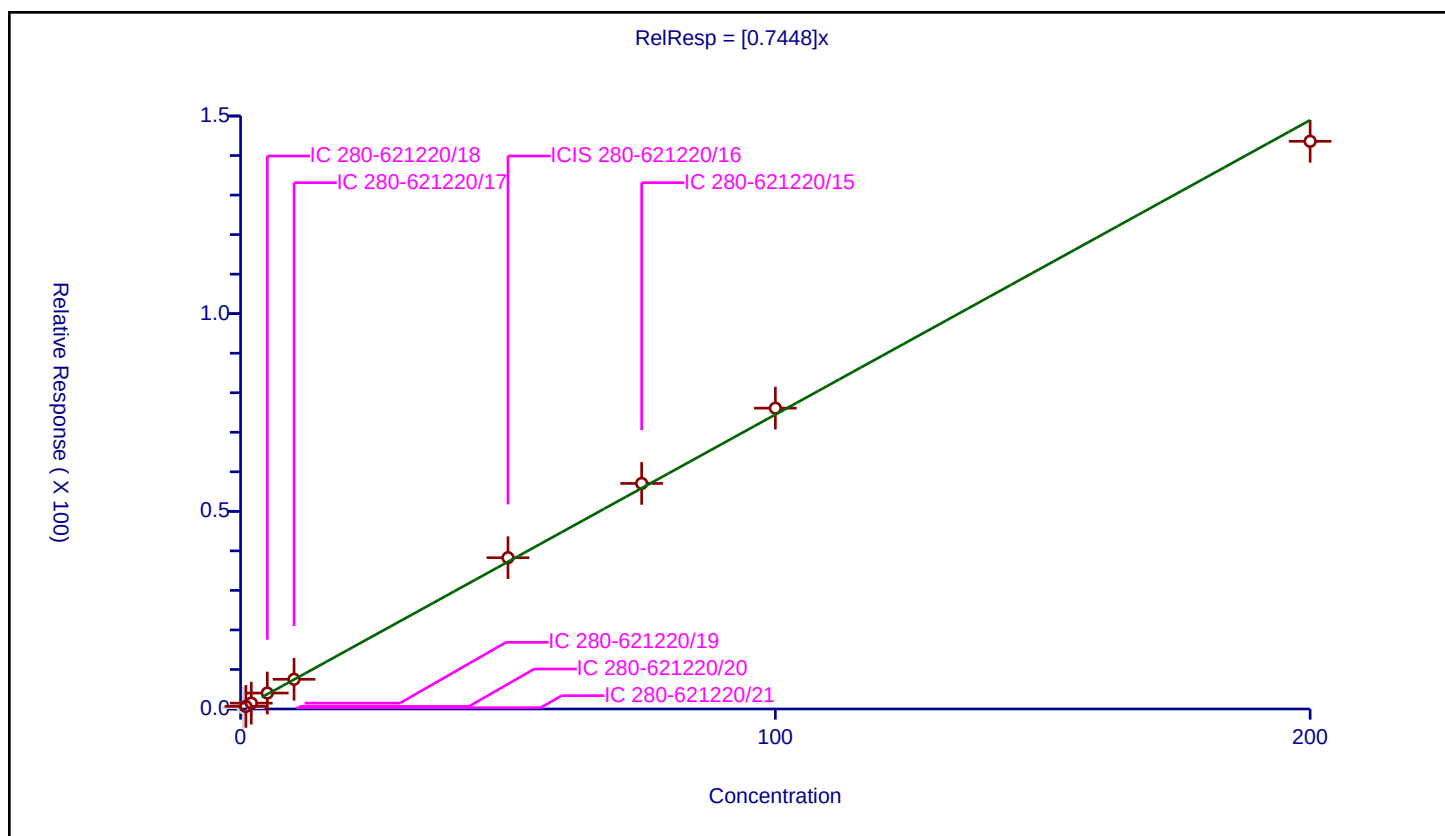
Curve Coefficients

Intercept: 0
 Slope: 0.7448

Error Coefficients

Standard Error: 1250000
 Relative Standard Error: 5.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.325691	50.0	731522.0	0.651382	N
2	IC 280-621220/20	1.0	0.655711	50.0	789830.0	0.655711	Y
3	IC 280-621220/19	2.0	1.481457	50.0	834854.0	0.740728	Y
4	IC 280-621220/18	5.0	4.027513	50.0	841338.0	0.805503	Y
5	IC 280-621220/17	10.0	7.508263	50.0	852261.0	0.750826	Y
6	ICIS 280-621220/16	50.0	38.274185	50.0	917352.0	0.765484	Y
7	IC 280-621220/15	75.0	57.060125	50.0	902314.0	0.760802	Y
8	IC 280-621220/14	100.0	76.098507	50.0	909439.0	0.760985	Y
9	IC 280-621220/13	200.0	143.605862	50.0	951559.0	0.718029	Y



Calibration

/ Bromobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

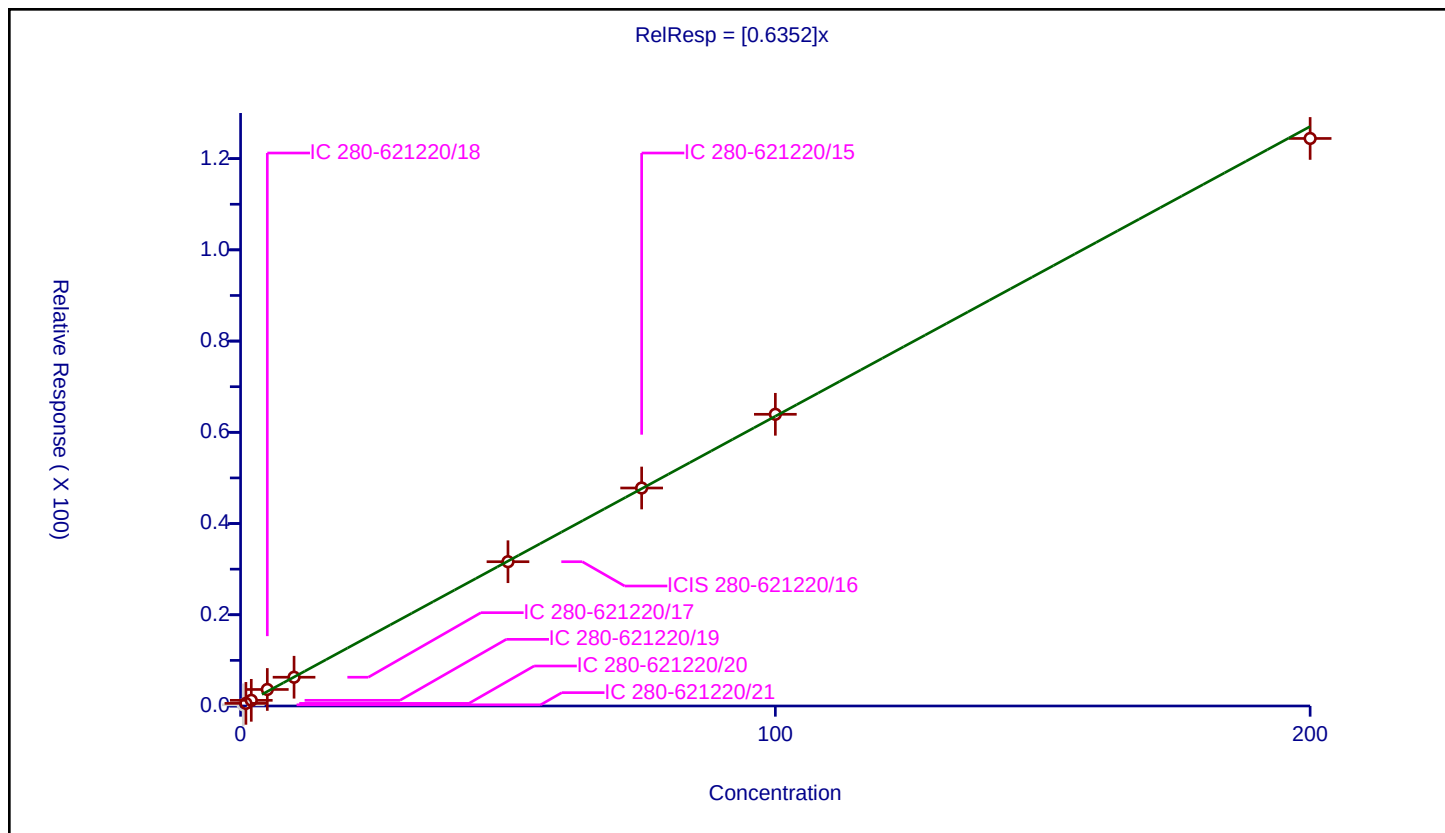
Curve Coefficients

Intercept: 0
 Slope: 0.6352

Error Coefficients

Standard Error: 1070000
 Relative Standard Error: 6.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.260074	50.0	731522.0	0.520148	N
2	IC 280-621220/20	1.0	0.575377	50.0	789830.0	0.575377	Y
3	IC 280-621220/19	2.0	1.241475	50.0	834854.0	0.620737	Y
4	IC 280-621220/18	5.0	3.619948	50.0	841338.0	0.72399	Y
5	IC 280-621220/17	10.0	6.302529	50.0	852261.0	0.630253	Y
6	ICIS 280-621220/16	50.0	31.631315	50.0	917352.0	0.632626	Y
7	IC 280-621220/15	75.0	47.788963	50.0	902314.0	0.637186	Y
8	IC 280-621220/14	100.0	63.94673	50.0	909439.0	0.639467	Y
9	IC 280-621220/13	200.0	124.421292	50.0	951559.0	0.622106	Y



Calibration

/ trans-1,4-Dichloro-2-butene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

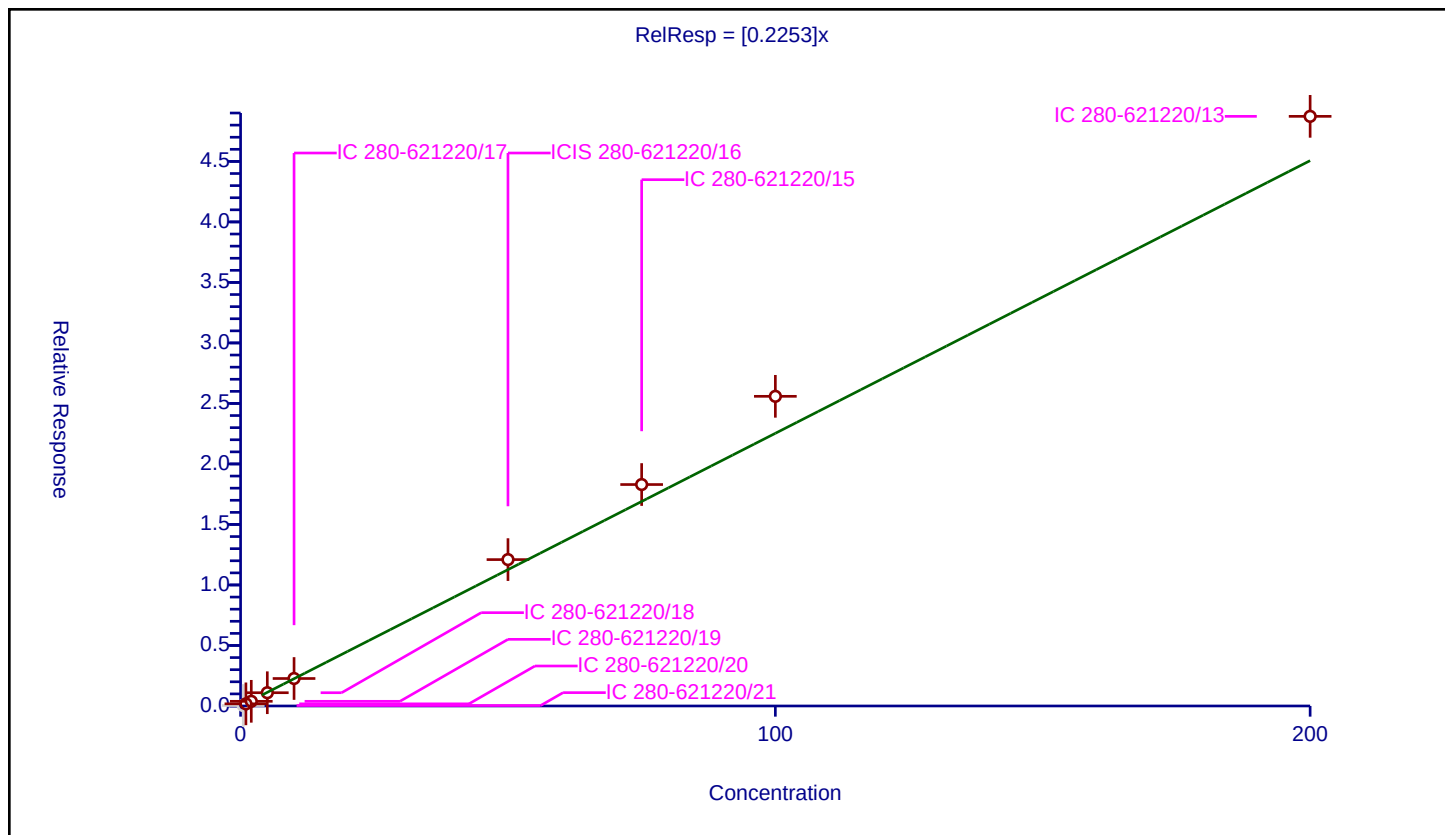
Curve Coefficients

Intercept: 0
 Slope: 0.2253

Error Coefficients

Standard Error: 420000
 Relative Standard Error: 12.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.039028	50.0	731522.0	0.078056	N
2	IC 280-621220/20	1.0	0.177696	50.0	789830.0	0.177696	Y
3	IC 280-621220/19	2.0	0.385756	50.0	834854.0	0.192878	Y
4	IC 280-621220/18	5.0	1.096943	50.0	841338.0	0.219389	Y
5	IC 280-621220/17	10.0	2.271194	50.0	852261.0	0.227119	Y
6	ICIS 280-621220/16	50.0	12.097428	50.0	917352.0	0.241949	Y
7	IC 280-621220/15	75.0	18.299893	50.0	902314.0	0.243999	Y
8	IC 280-621220/14	100.0	25.589017	50.0	909439.0	0.25589	Y
9	IC 280-621220/13	200.0	48.723779	50.0	951559.0	0.243619	Y



Calibration

/ 1,2,3-Trichloropropane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

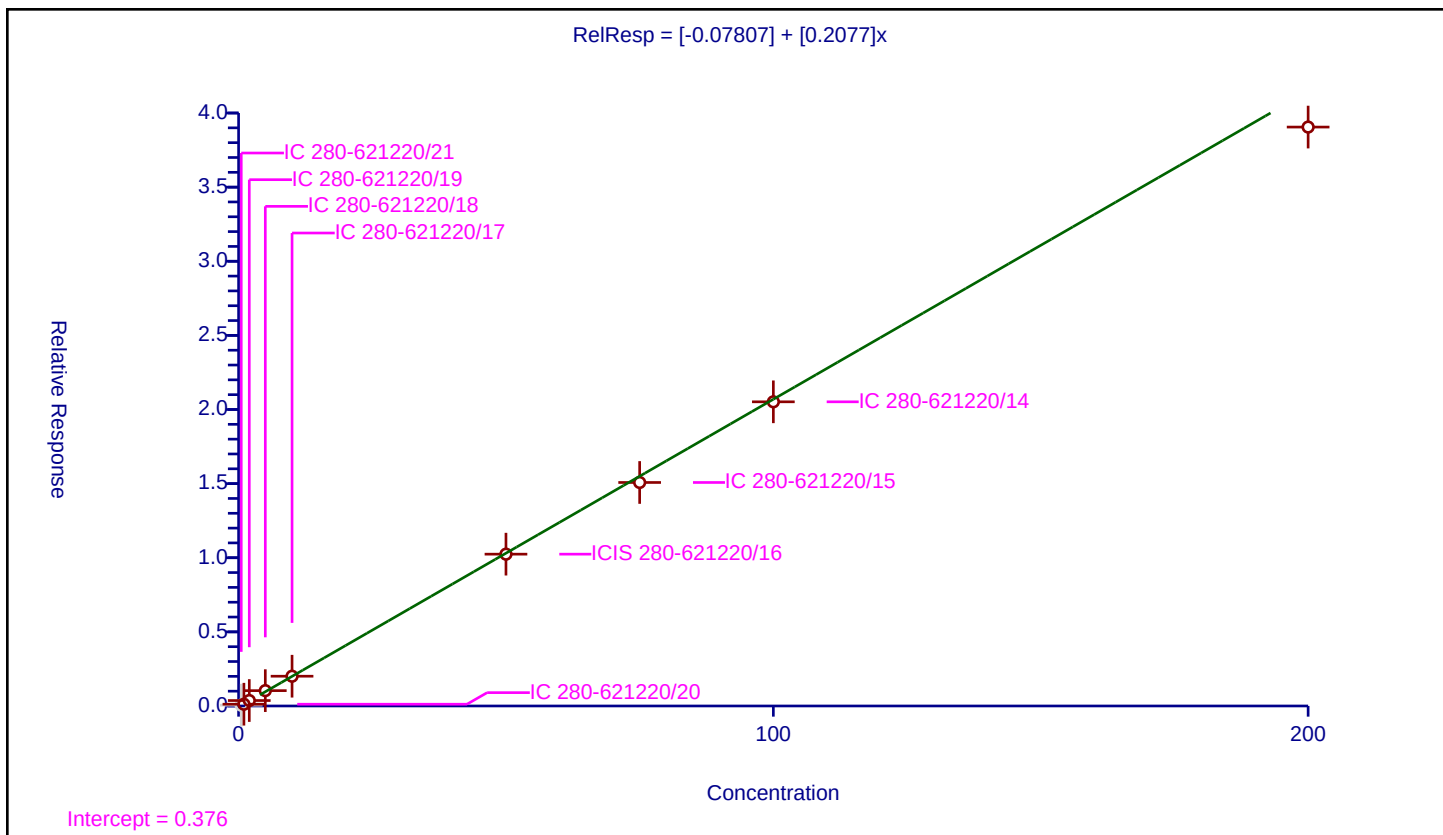
Curve Coefficients

Intercept: -0.07807
 Slope: 0.2077

Error Coefficients

Standard Error: 366000
 Relative Standard Error: 5.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.055159	50.0	731522.0	0.110318	N
2	IC 280-621220/20	1.0	0.119076	50.0	789830.0	0.119076	Y
3	IC 280-621220/19	2.0	0.367789	50.0	834854.0	0.183894	Y
4	IC 280-621220/18	5.0	1.035375	50.0	841338.0	0.207075	Y
5	IC 280-621220/17	10.0	2.008188	50.0	852261.0	0.200819	Y
6	ICIS 280-621220/16	50.0	10.242524	50.0	917352.0	0.20485	Y
7	IC 280-621220/15	75.0	15.077456	50.0	902314.0	0.201033	Y
8	IC 280-621220/14	100.0	20.517979	50.0	909439.0	0.20518	Y
9	IC 280-621220/13	200.0	39.052649	50.0	951559.0	0.195263	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

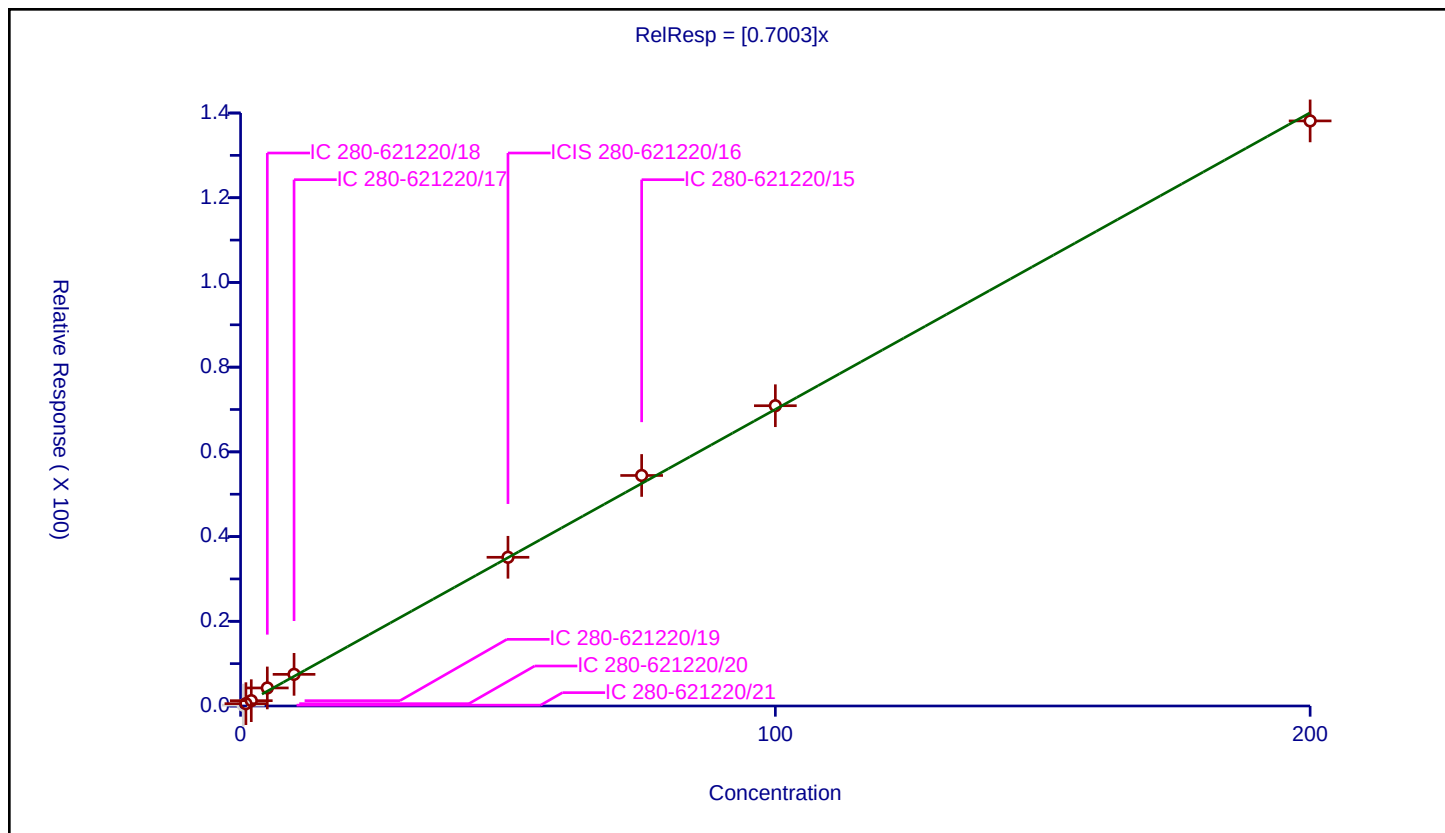
Curve Coefficients

Intercept: 0
Slope: 0.7003

Error Coefficients

Standard Error: 1190000
Relative Standard Error: 12.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.197192	50.0	731522.0	0.394383	N
2	IC 280-621220/20	1.0	0.548536	50.0	789830.0	0.548536	Y
3	IC 280-621220/19	2.0	1.255669	50.0	834854.0	0.627834	Y
4	IC 280-621220/18	5.0	4.258455	50.0	841338.0	0.851691	Y
5	IC 280-621220/17	10.0	7.472417	50.0	852261.0	0.747242	Y
6	ICIS 280-621220/16	50.0	35.108116	50.0	917352.0	0.702162	Y
7	IC 280-621220/15	75.0	54.425677	50.0	902314.0	0.725676	Y
8	IC 280-621220/14	100.0	70.897553	50.0	909439.0	0.708976	Y
9	IC 280-621220/13	200.0	138.13484	50.0	951559.0	0.690674	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

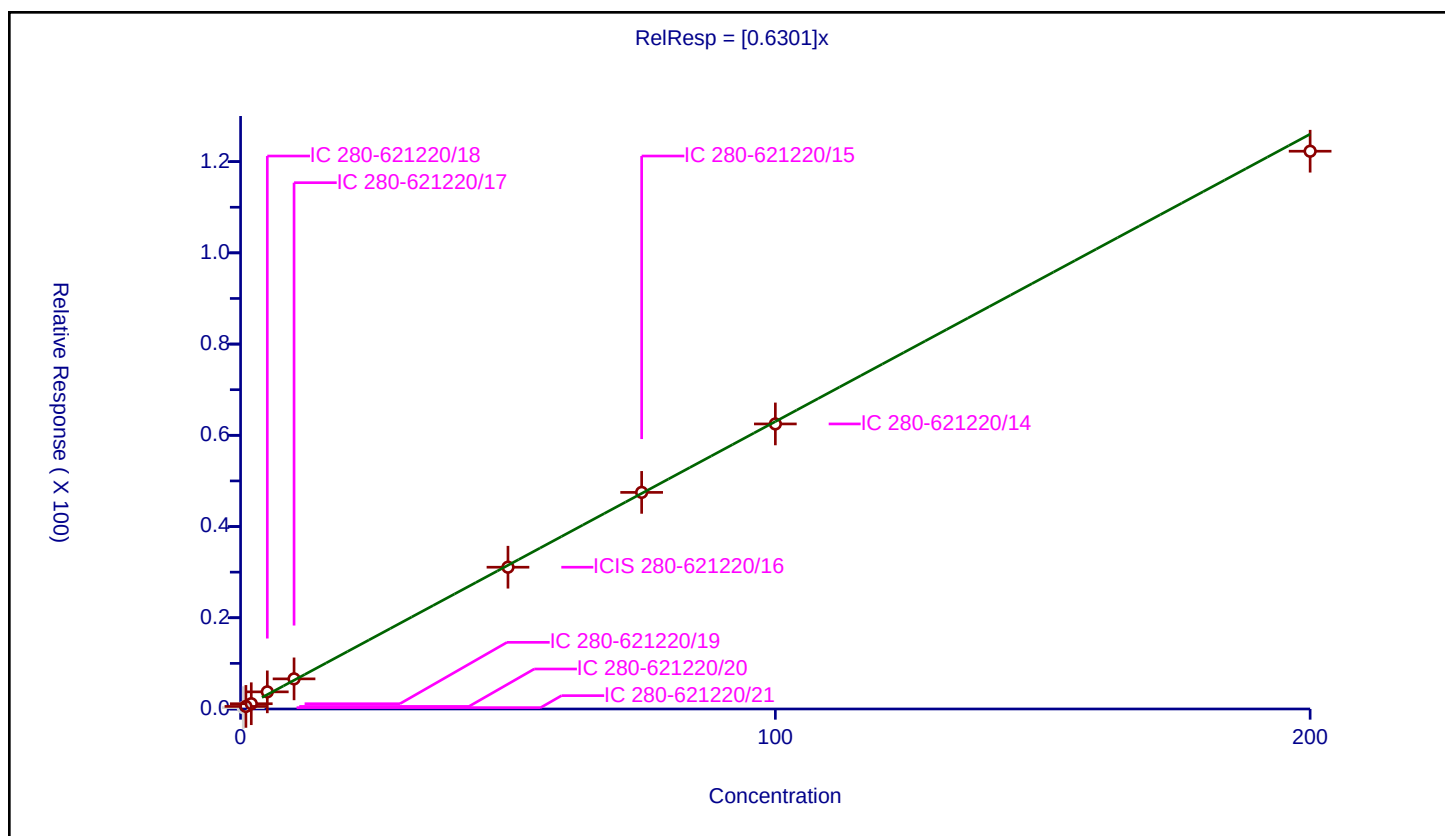
Curve Coefficients

Intercept: 0
Slope: 0.6301

Error Coefficients

Standard Error: 1050000
Relative Standard Error: 9.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.300948	50.0	731522.0	0.601896	N
2	IC 280-621220/20	1.0	0.562843	50.0	789830.0	0.562843	Y
3	IC 280-621220/19	2.0	1.152118	50.0	834854.0	0.576059	Y
4	IC 280-621220/18	5.0	3.753367	50.0	841338.0	0.750673	Y
5	IC 280-621220/17	10.0	6.601968	50.0	852261.0	0.660197	Y
6	ICIS 280-621220/16	50.0	31.083052	50.0	917352.0	0.621661	Y
7	IC 280-621220/15	75.0	47.488956	50.0	902314.0	0.633186	Y
8	IC 280-621220/14	100.0	62.491107	50.0	909439.0	0.624911	Y
9	IC 280-621220/13	200.0	122.2838	50.0	951559.0	0.611419	Y



Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

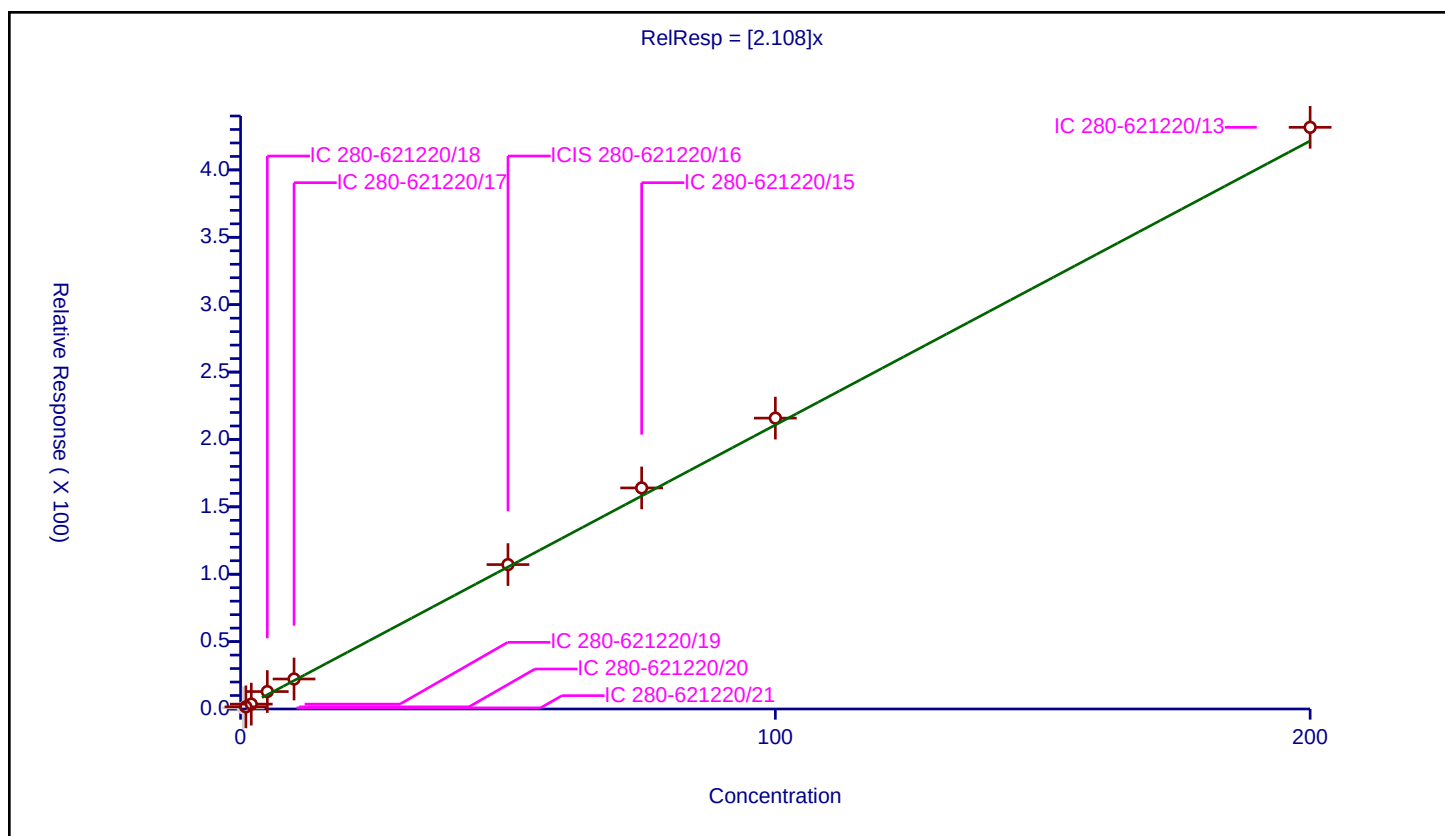
Curve Coefficients

Intercept: 0
 Slope: 2.108

Error Coefficients

Standard Error: 3700000
 Relative Standard Error: 14.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.842148	50.0	731522.0	1.684297	N
2	IC 280-621220/20	1.0	1.598255	50.0	789830.0	1.598255	Y
3	IC 280-621220/19	2.0	3.60596	50.0	834854.0	1.80298	Y
4	IC 280-621220/18	5.0	12.937309	50.0	841338.0	2.587462	Y
5	IC 280-621220/17	10.0	22.256269	50.0	852261.0	2.225627	Y
6	ICIS 280-621220/16	50.0	107.15407	50.0	917352.0	2.143081	Y
7	IC 280-621220/15	75.0	164.03558	50.0	902314.0	2.187141	Y
8	IC 280-621220/14	100.0	215.837401	50.0	909439.0	2.158374	Y
9	IC 280-621220/13	200.0	431.617798	50.0	951559.0	2.158089	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

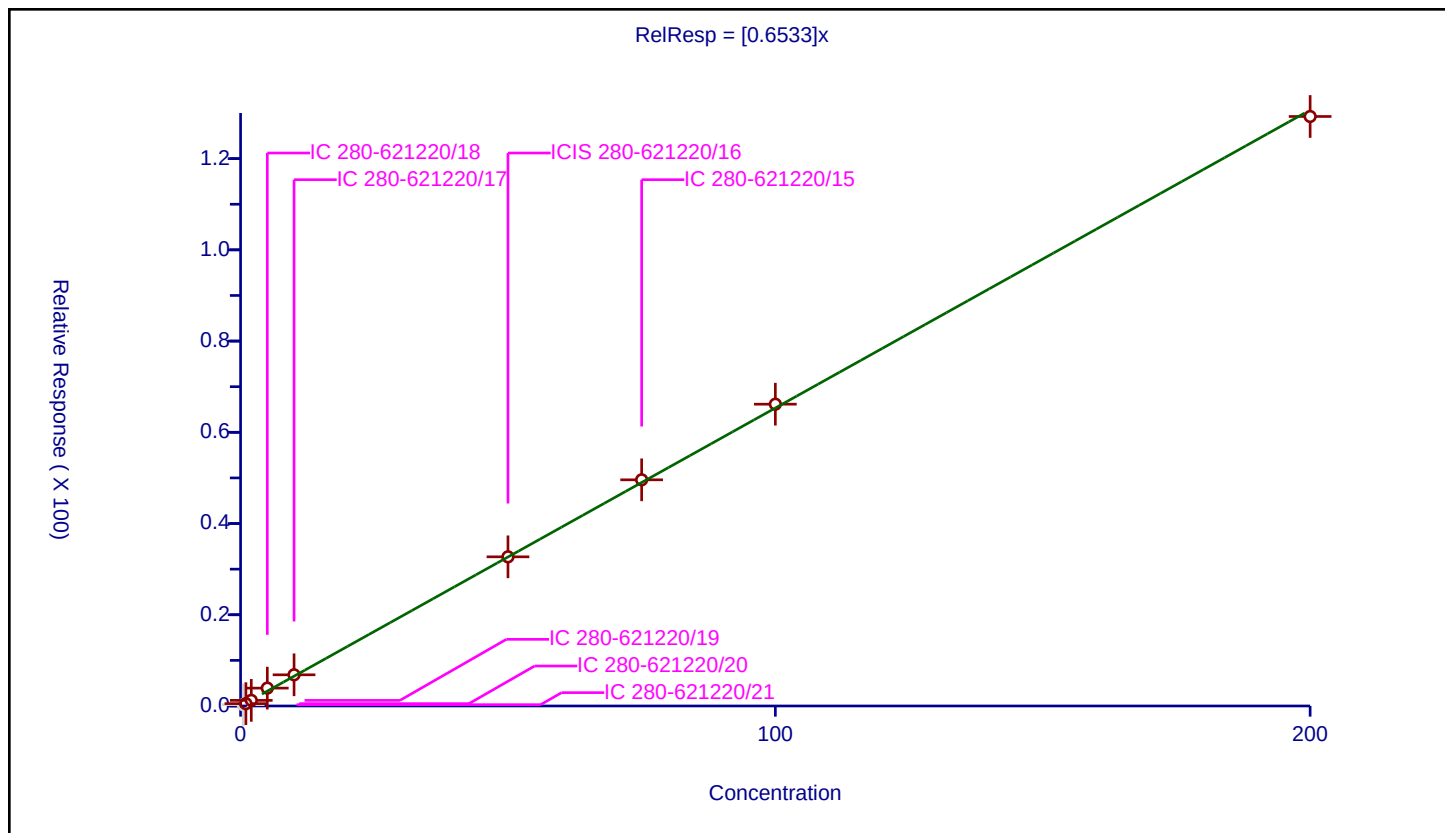
Curve Coefficients

Intercept: 0
Slope: 0.6533

Error Coefficients

Standard Error: 1110000
Relative Standard Error: 11.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.290148	50.0	731522.0	0.580297	N
2	IC 280-621220/20	1.0	0.519669	50.0	789830.0	0.519669	Y
3	IC 280-621220/19	2.0	1.232072	50.0	834854.0	0.616036	Y
4	IC 280-621220/18	5.0	3.91852	50.0	841338.0	0.783704	Y
5	IC 280-621220/17	10.0	6.838281	50.0	852261.0	0.683828	Y
6	ICIS 280-621220/16	50.0	32.699771	50.0	917352.0	0.653995	Y
7	IC 280-621220/15	75.0	49.584346	50.0	902314.0	0.661125	Y
8	IC 280-621220/14	100.0	66.166725	50.0	909439.0	0.661667	Y
9	IC 280-621220/13	200.0	129.237231	50.0	951559.0	0.646186	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

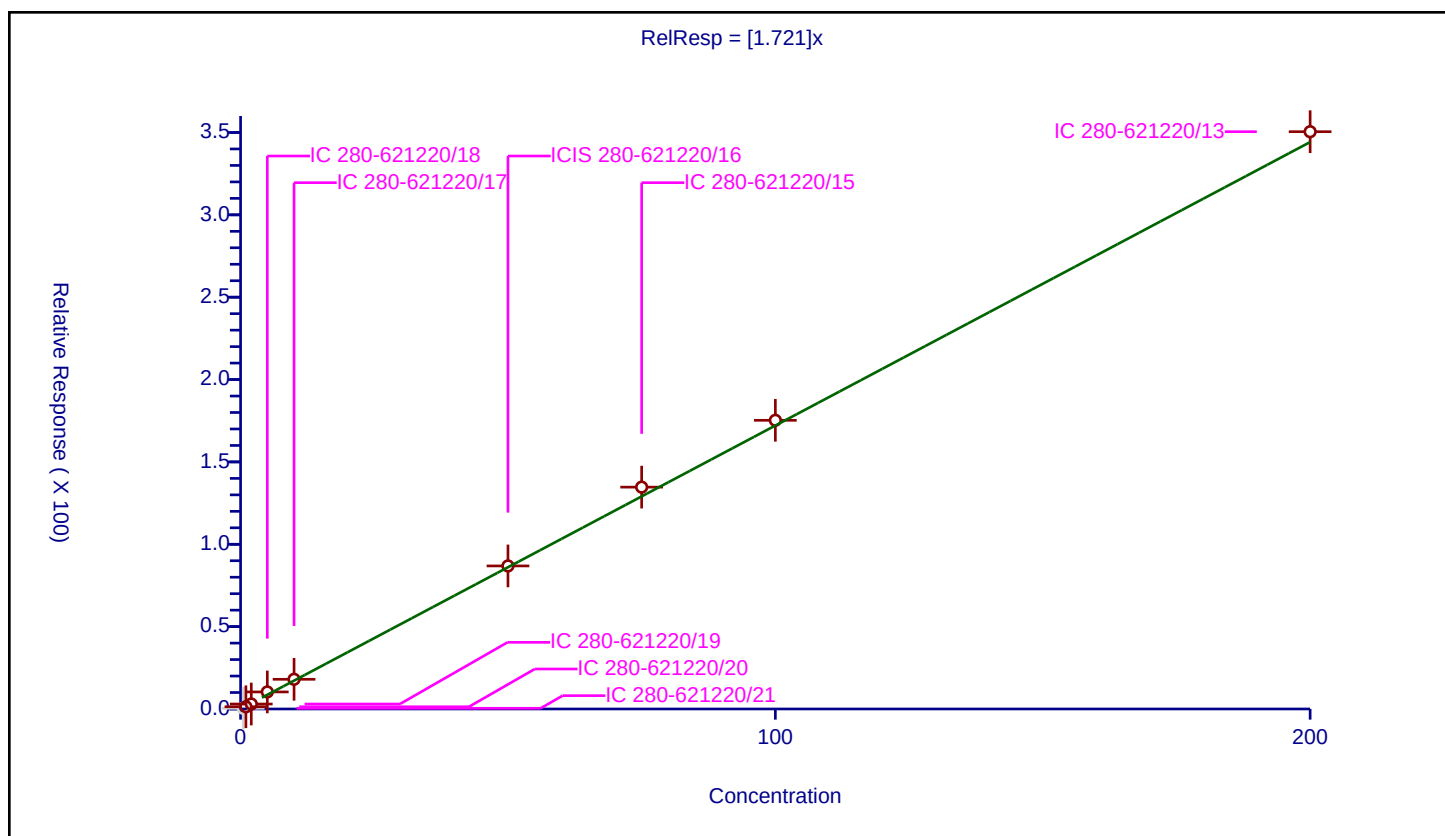
Curve Coefficients

Intercept: 0
Slope: 1.721

Error Coefficients

Standard Error: 3010000
Relative Standard Error: 12.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.42808	50.0	731522.0	0.85616	N
2	IC 280-621220/20	1.0	1.349214	50.0	789830.0	1.349214	Y
3	IC 280-621220/19	2.0	3.01418	50.0	834854.0	1.50709	Y
4	IC 280-621220/18	5.0	10.349824	50.0	841338.0	2.069965	Y
5	IC 280-621220/17	10.0	18.022824	50.0	852261.0	1.802282	Y
6	ICIS 280-621220/16	50.0	86.856299	50.0	917352.0	1.737126	Y
7	IC 280-621220/15	75.0	134.683935	50.0	902314.0	1.795786	Y
8	IC 280-621220/14	100.0	175.256284	50.0	909439.0	1.752563	Y
9	IC 280-621220/13	200.0	350.482682	50.0	951559.0	1.752413	Y



Calibration

/ 1,2,4-Trimethylbenzene

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

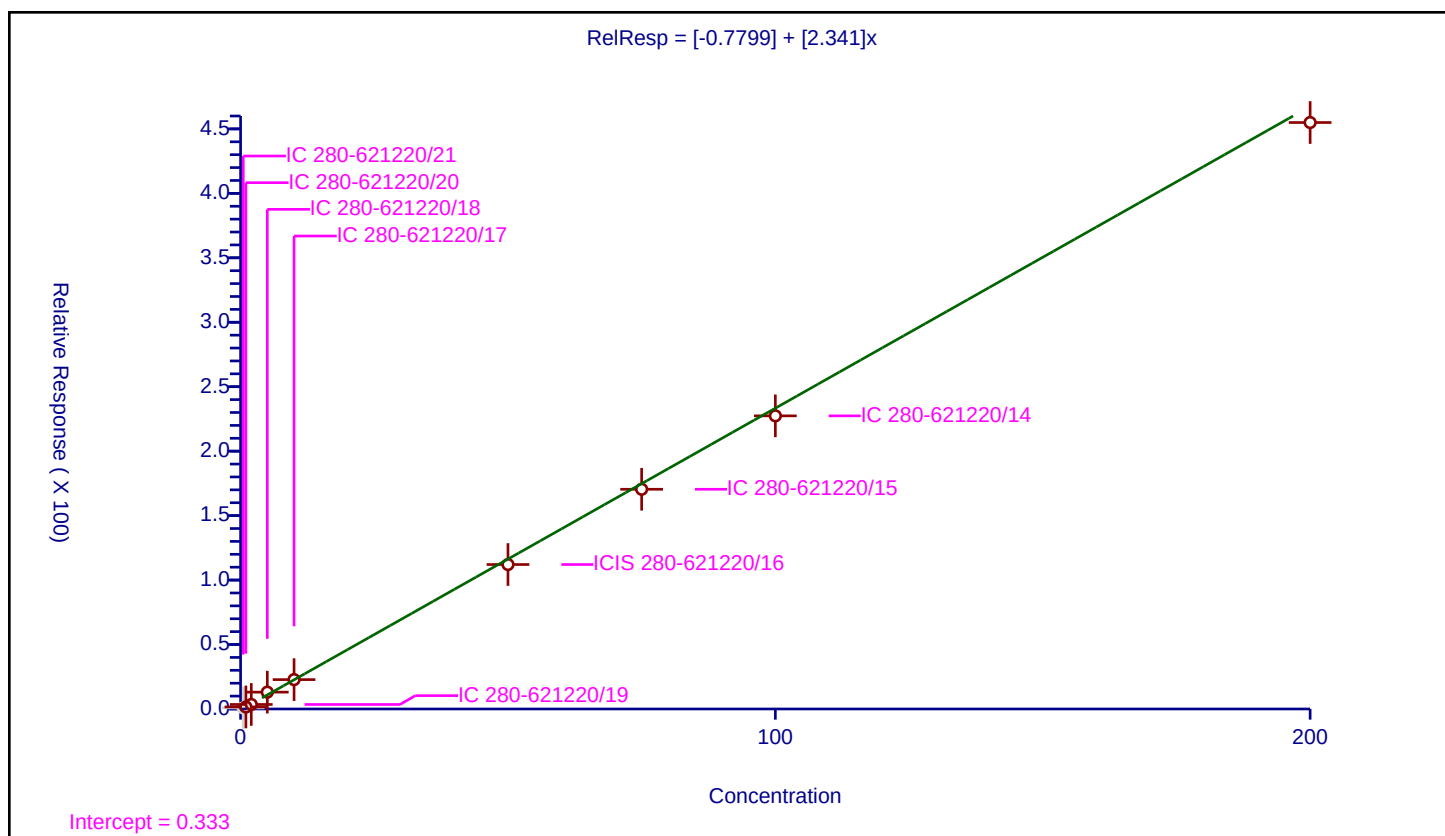
Curve Coefficients

Intercept: -0.7799
Slope: 2.341

Error Coefficients

Standard Error: 4200000
Relative Standard Error: 8.6
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.862585	50.0	731522.0	1.72517	N
2	IC 280-621220/20	1.0	1.574326	50.0	789830.0	1.574326	Y
3	IC 280-621220/19	2.0	3.513668	50.0	834854.0	1.756834	Y
4	IC 280-621220/18	5.0	13.072511	50.0	841338.0	2.614502	Y
5	IC 280-621220/17	10.0	22.79425	50.0	852261.0	2.279425	Y
6	ICIS 280-621220/16	50.0	112.069031	50.0	917352.0	2.241381	Y
7	IC 280-621220/15	75.0	170.456349	50.0	902314.0	2.272751	Y
8	IC 280-621220/14	100.0	227.392326	50.0	909439.0	2.273923	Y
9	IC 280-621220/13	200.0	454.957549	50.0	951559.0	2.274788	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

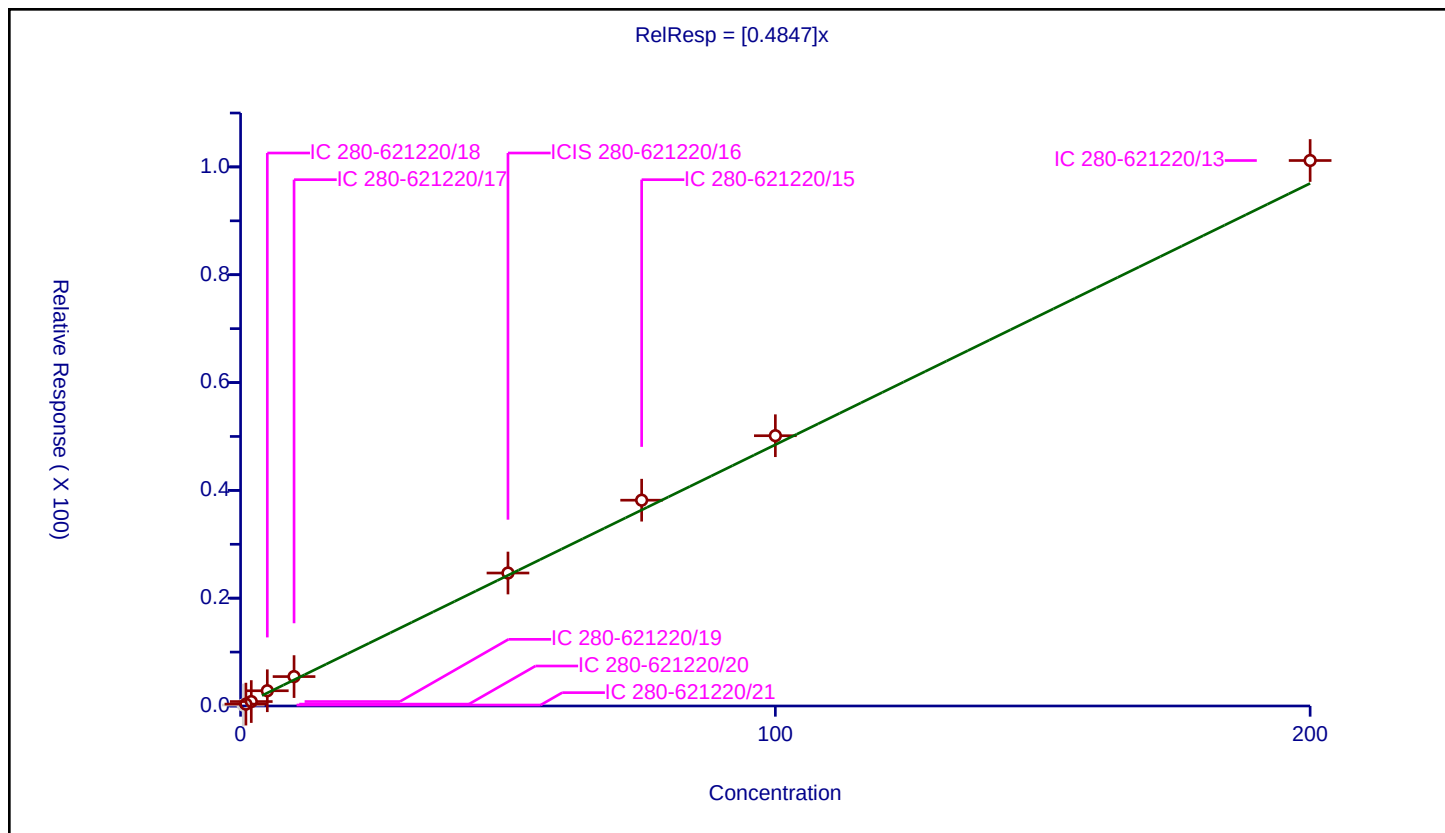
Curve Coefficients

Intercept: 0
 Slope: 0.4847

Error Coefficients

Standard Error: 864000
 Relative Standard Error: 14.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.178053	50.0	731522.0	0.356107	N
2	IC 280-621220/20	1.0	0.34653	50.0	789830.0	0.34653	Y
3	IC 280-621220/19	2.0	0.822359	50.0	834854.0	0.41118	Y
4	IC 280-621220/18	5.0	2.825737	50.0	841338.0	0.565147	Y
5	IC 280-621220/17	10.0	5.452614	50.0	852261.0	0.545261	Y
6	ICIS 280-621220/16	50.0	24.668066	50.0	917352.0	0.493361	Y
7	IC 280-621220/15	75.0	38.176234	50.0	902314.0	0.509016	Y
8	IC 280-621220/14	100.0	50.138712	50.0	909439.0	0.501387	Y
9	IC 280-621220/13	200.0	101.188261	50.0	951559.0	0.505941	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

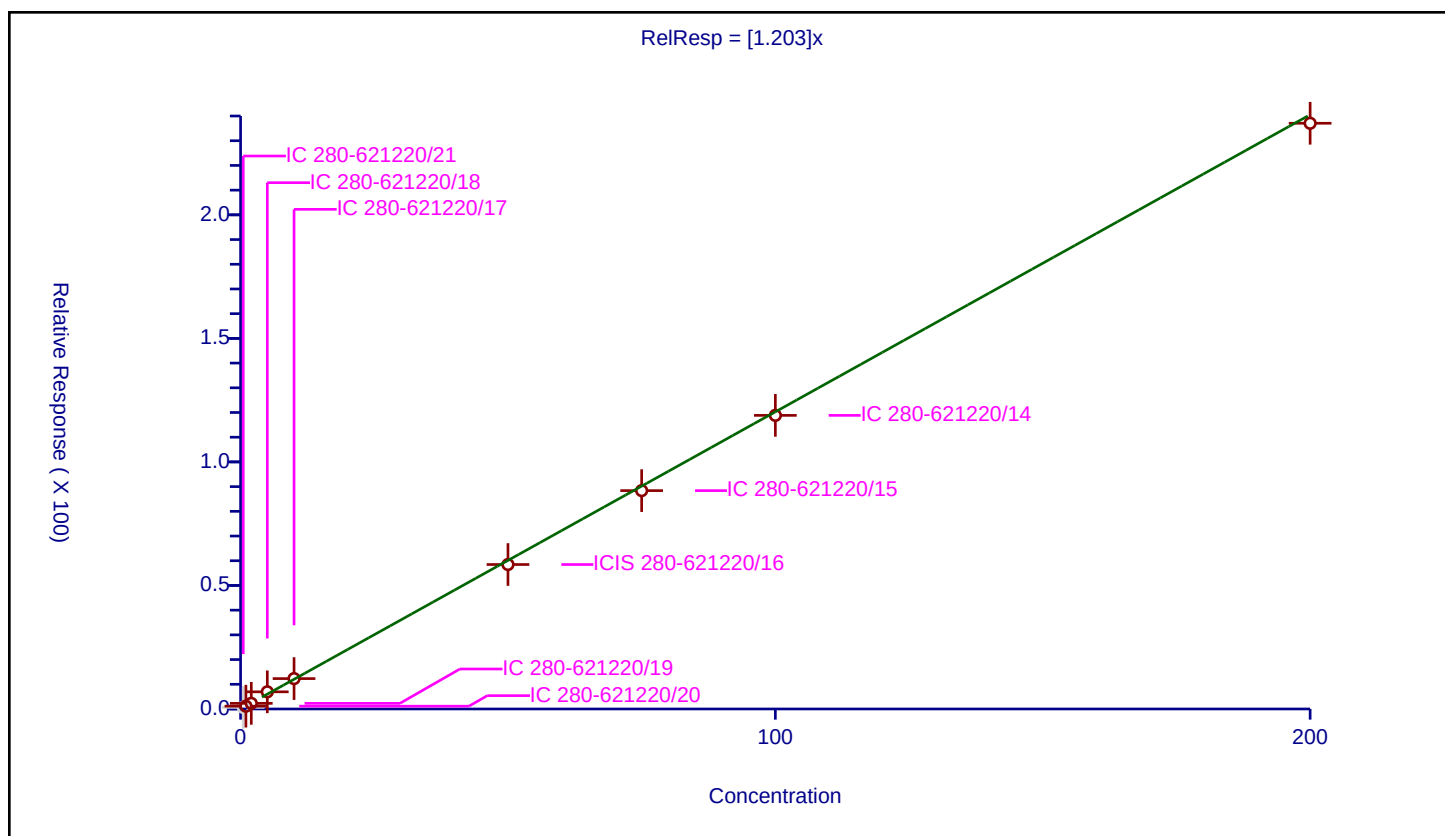
Curve Coefficients

Intercept: 0
Slope: 1.203

Error Coefficients

Standard Error: 2030000
Relative Standard Error: 6.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.644888	50.0	731522.0	1.289777	N
2	IC 280-621220/20	1.0	1.142018	50.0	789830.0	1.142018	Y
3	IC 280-621220/19	2.0	2.277823	50.0	834854.0	1.138912	Y
4	IC 280-621220/18	5.0	6.945366	50.0	841338.0	1.389073	Y
5	IC 280-621220/17	10.0	12.297641	50.0	852261.0	1.229764	Y
6	ICIS 280-621220/16	50.0	58.466761	50.0	917352.0	1.169335	Y
7	IC 280-621220/15	75.0	88.384088	50.0	902314.0	1.178455	Y
8	IC 280-621220/14	100.0	118.831664	50.0	909439.0	1.188317	Y
9	IC 280-621220/13	200.0	237.069062	50.0	951559.0	1.185345	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

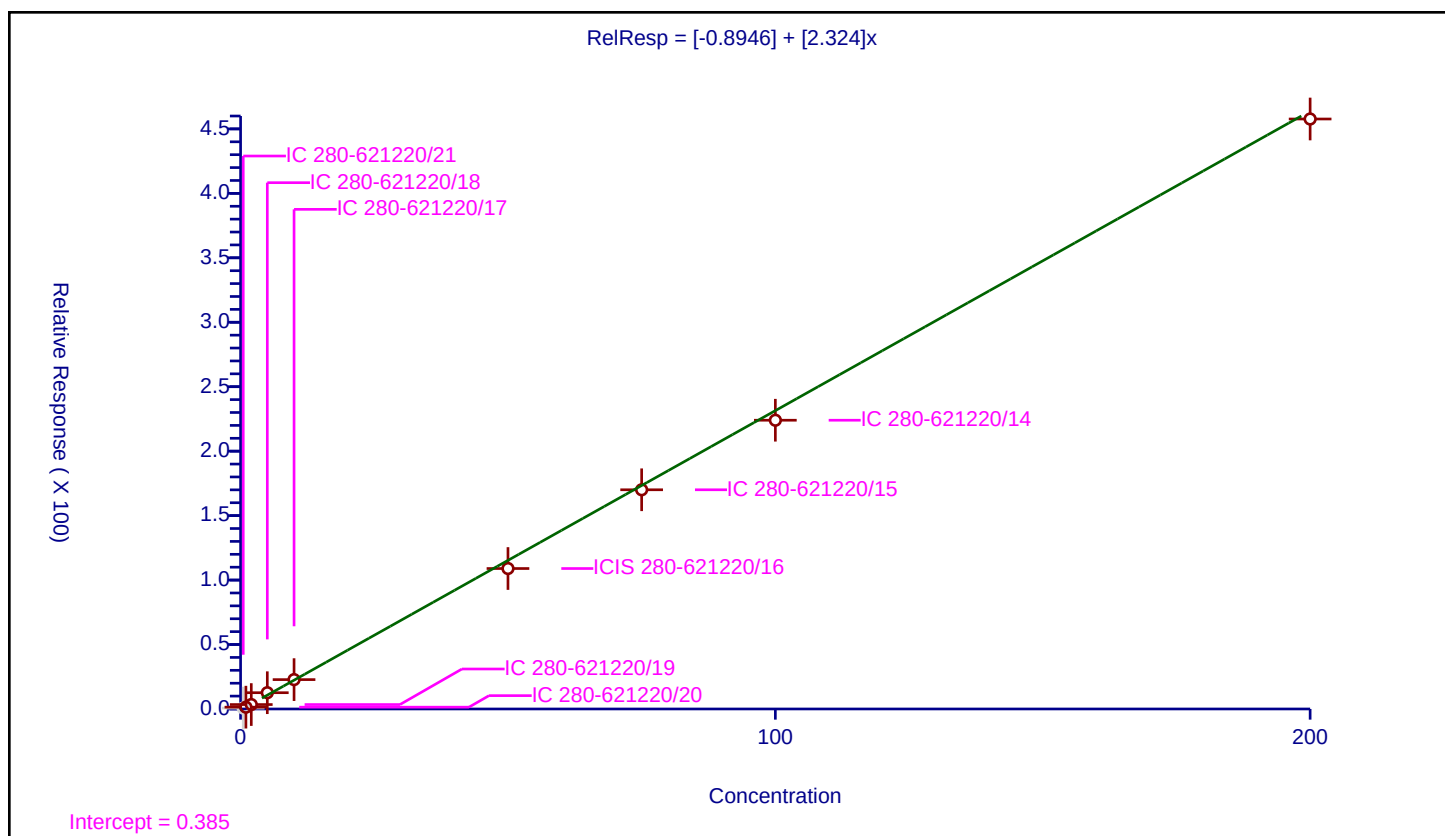
Curve Coefficients

Intercept: -0.8946
 Slope: 2.324

Error Coefficients

Standard Error: 4200000
 Relative Standard Error: 7.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.722808	50.0	731522.0	1.445616	N
2	IC 280-621220/20	1.0	1.427143	50.0	789830.0	1.427143	Y
3	IC 280-621220/19	2.0	3.451382	50.0	834854.0	1.725691	Y
4	IC 280-621220/18	5.0	12.638678	50.0	841338.0	2.527736	Y
5	IC 280-621220/17	10.0	22.790906	50.0	852261.0	2.279091	Y
6	ICIS 280-621220/16	50.0	108.968477	50.0	917352.0	2.17937	Y
7	IC 280-621220/15	75.0	170.057264	50.0	902314.0	2.26743	Y
8	IC 280-621220/14	100.0	224.003204	50.0	909439.0	2.240032	Y
9	IC 280-621220/13	200.0	457.683496	50.0	951559.0	2.288417	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

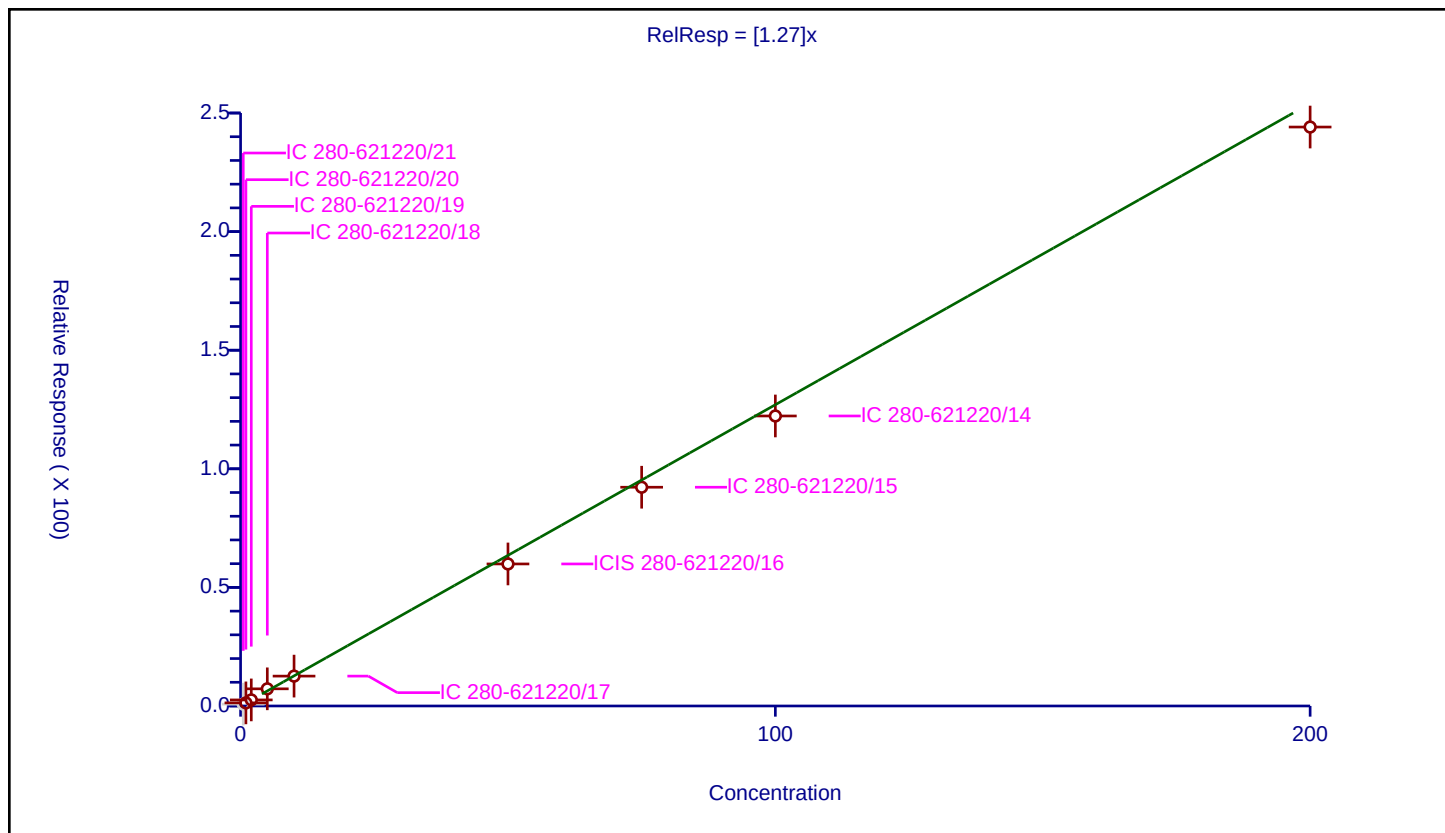
Curve Coefficients

Intercept: 0
Slope: 1.27

Error Coefficients

Standard Error: 2090000
Relative Standard Error: 6.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.78364	50.0	731522.0	1.56728	N
2	IC 280-621220/20	1.0	1.305028	50.0	789830.0	1.305028	Y
3	IC 280-621220/19	2.0	2.555117	50.0	834854.0	1.277559	Y
4	IC 280-621220/18	5.0	7.240194	50.0	841338.0	1.448039	Y
5	IC 280-621220/17	10.0	12.600424	50.0	852261.0	1.260042	Y
6	ICIS 280-621220/16	50.0	59.889715	50.0	917352.0	1.197794	Y
7	IC 280-621220/15	75.0	92.234466	50.0	902314.0	1.229793	Y
8	IC 280-621220/14	100.0	122.268014	50.0	909439.0	1.22268	Y
9	IC 280-621220/13	200.0	244.088438	50.0	951559.0	1.220442	Y



Calibration

/ n-Butylbenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

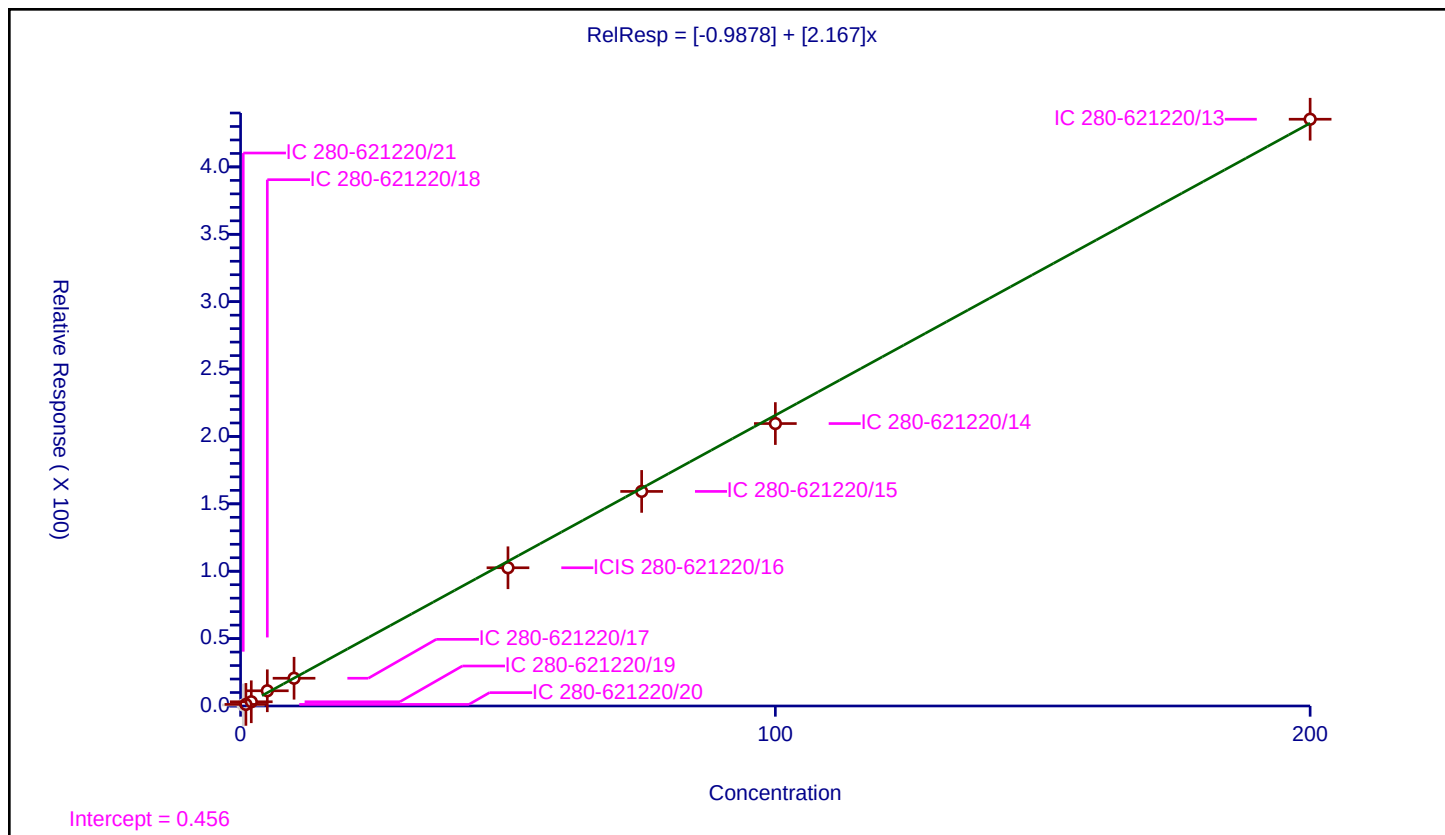
Curve Coefficients

Intercept: -0.9878
 Slope: 2.167

Error Coefficients

Standard Error: 3980000
 Relative Standard Error: 6.2
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.737367	50.0	731522.0	1.474734	N
2	IC 280-621220/20	1.0	1.176456	50.0	789830.0	1.176456	Y
3	IC 280-621220/19	2.0	3.143544	50.0	834854.0	1.571772	Y
4	IC 280-621220/18	5.0	11.285773	50.0	841338.0	2.257155	Y
5	IC 280-621220/17	10.0	20.591755	50.0	852261.0	2.059176	Y
6	ICIS 280-621220/16	50.0	102.576001	50.0	917352.0	2.05152	Y
7	IC 280-621220/15	75.0	159.217246	50.0	902314.0	2.122897	Y
8	IC 280-621220/14	100.0	209.574584	50.0	909439.0	2.095746	Y
9	IC 280-621220/13	200.0	435.385247	50.0	951559.0	2.176926	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

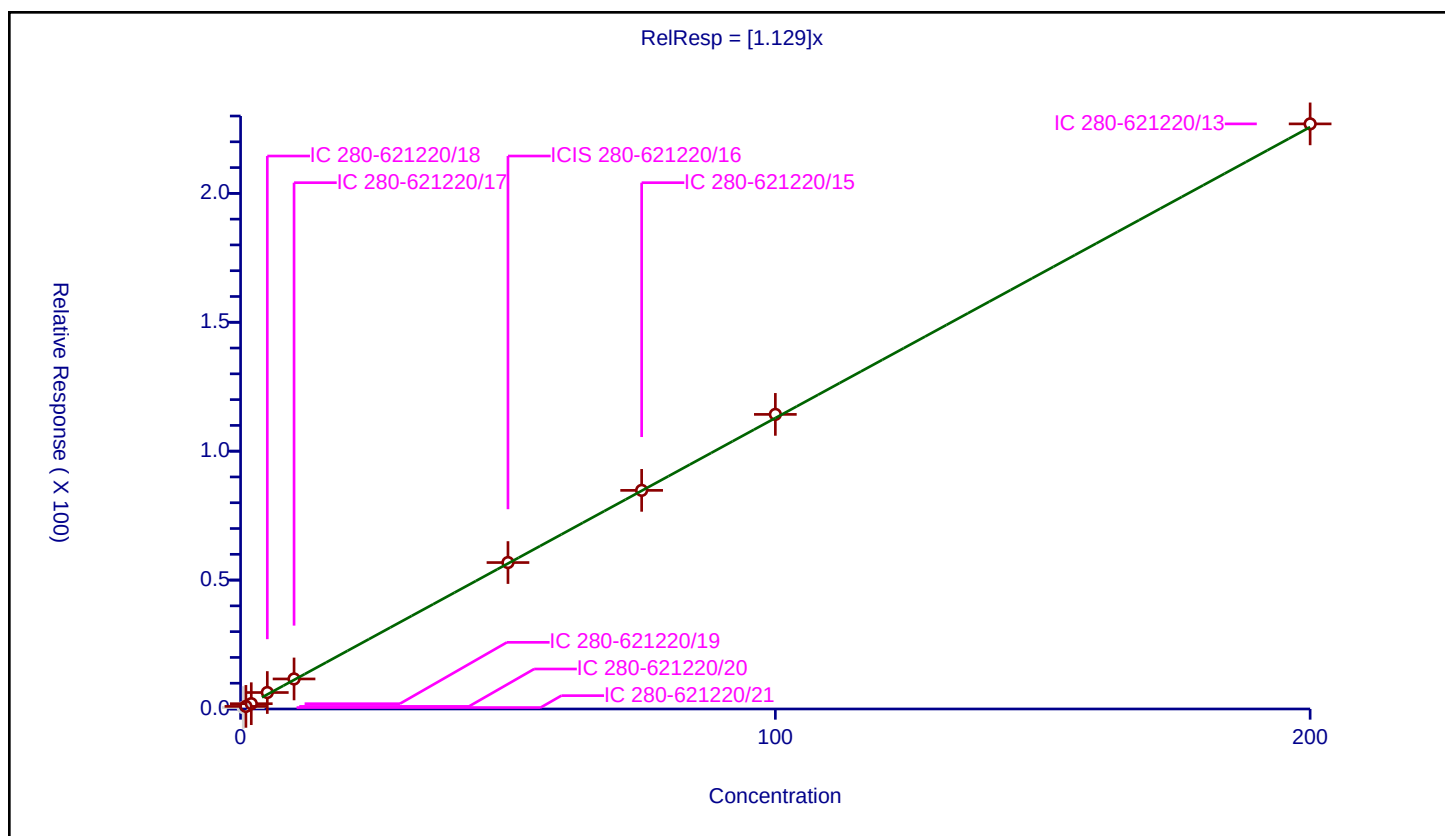
Curve Coefficients

Intercept: 0
Slope: 1.129

Error Coefficients

Standard Error: 1940000
Relative Standard Error: 7.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.561842	50.0	731522.0	1.123685	N
2	IC 280-621220/20	1.0	1.012243	50.0	789830.0	1.012243	Y
3	IC 280-621220/19	2.0	2.057366	50.0	834854.0	1.028683	Y
4	IC 280-621220/18	5.0	6.391248	50.0	841338.0	1.27825	Y
5	IC 280-621220/17	10.0	11.654176	50.0	852261.0	1.165418	Y
6	ICIS 280-621220/16	50.0	56.795756	50.0	917352.0	1.135915	Y
7	IC 280-621220/15	75.0	84.796645	50.0	902314.0	1.130622	Y
8	IC 280-621220/14	100.0	114.269236	50.0	909439.0	1.142692	Y
9	IC 280-621220/13	200.0	226.944099	50.0	951559.0	1.13472	Y



Calibration

/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

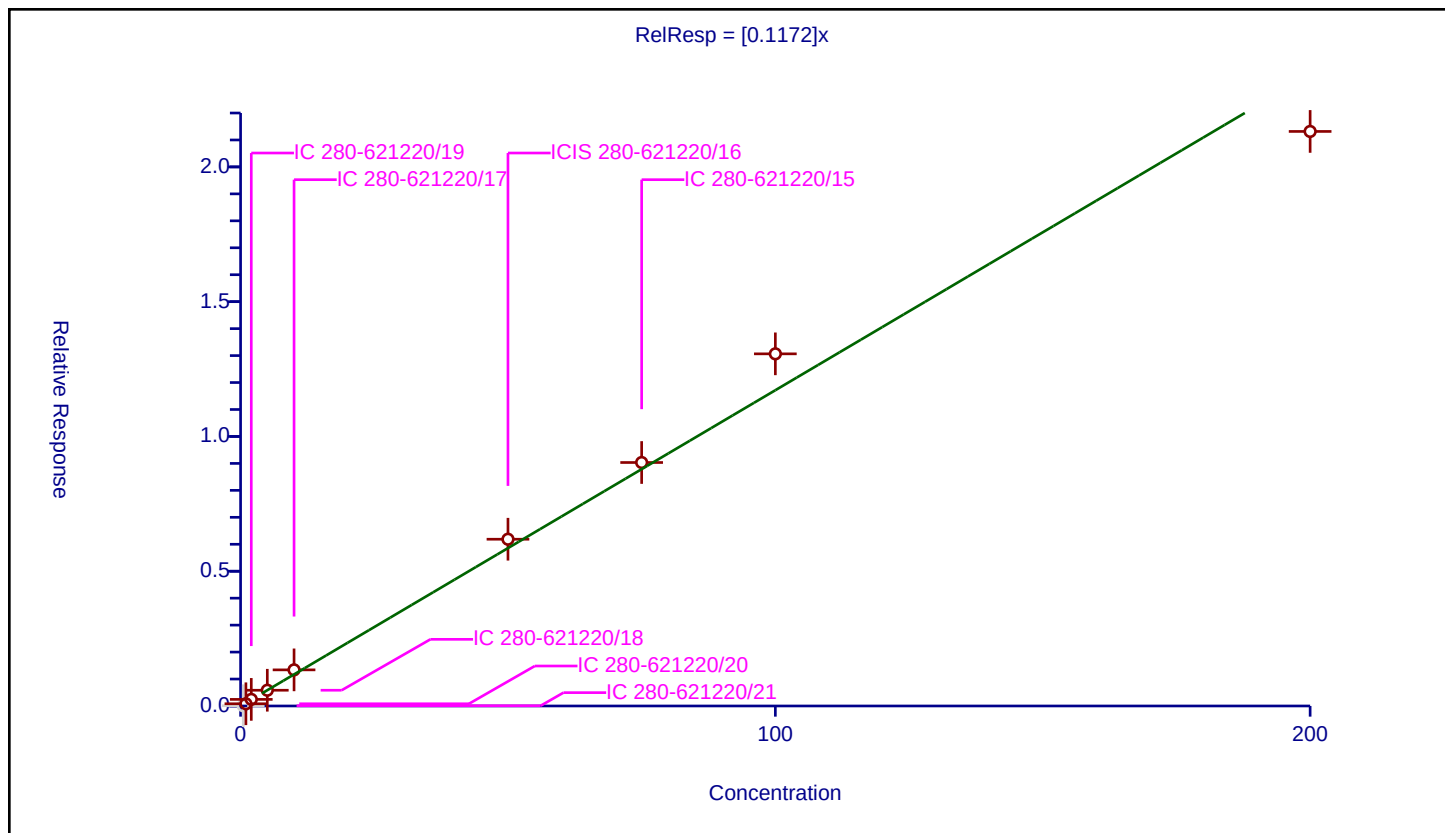
Curve Coefficients

Intercept: 0
Slope: 0.1172

Error Coefficients

Standard Error: 193000
Relative Standard Error: 13.9
Correlation Coefficient: 0.993
Coefficient of Determination (Adjusted): 0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.008954	50.0	731522.0	0.017908	N
2	IC 280-621220/20	1.0	0.082549	50.0	789830.0	0.082549	Y
3	IC 280-621220/19	2.0	0.244833	50.0	834854.0	0.122417	Y
4	IC 280-621220/18	5.0	0.584248	50.0	841338.0	0.11685	Y
5	IC 280-621220/17	10.0	1.340082	50.0	852261.0	0.134008	Y
6	ICIS 280-621220/16	50.0	6.186502	50.0	917352.0	0.12373	Y
7	IC 280-621220/15	75.0	9.033496	50.0	902314.0	0.120447	Y
8	IC 280-621220/14	100.0	13.065307	50.0	909439.0	0.130653	Y
9	IC 280-621220/13	200.0	21.315862	50.0	951559.0	0.106579	Y



Calibration

/ 1,2,4-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

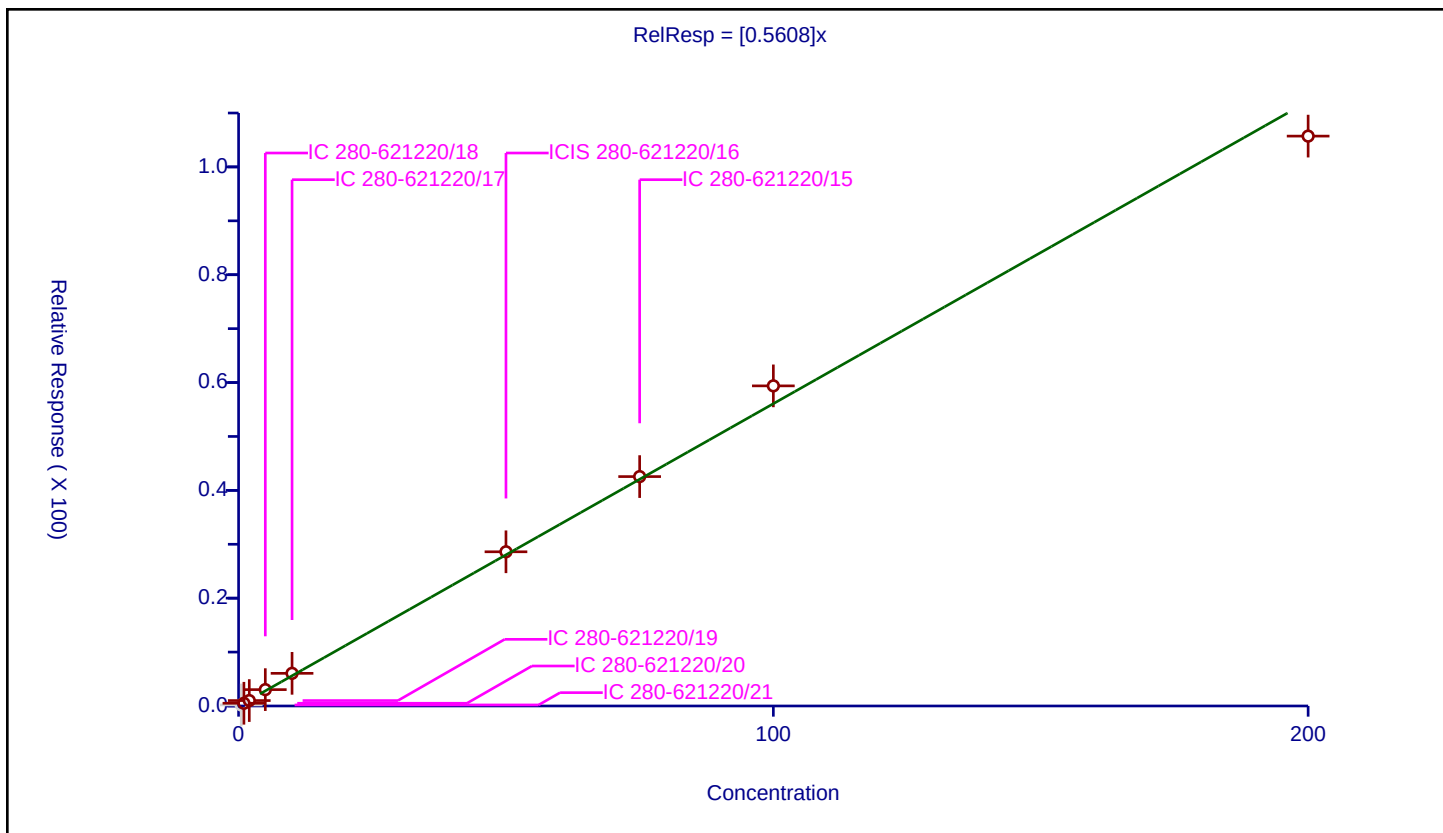
Curve Coefficients

Intercept: 0
Slope: 0.5608

Error Coefficients

Standard Error: 933000
Relative Standard Error: 7.5
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.196371	50.0	731522.0	0.392743	N
2	IC 280-621220/20	1.0	0.507831	50.0	789830.0	0.507831	Y
3	IC 280-621220/19	2.0	1.00826	50.0	834854.0	0.50413	Y
4	IC 280-621220/18	5.0	3.033561	50.0	841338.0	0.606712	Y
5	IC 280-621220/17	10.0	6.056067	50.0	852261.0	0.605607	Y
6	ICIS 280-621220/16	50.0	28.605759	50.0	917352.0	0.572115	Y
7	IC 280-621220/15	75.0	42.55298	50.0	902314.0	0.567373	Y
8	IC 280-621220/14	100.0	59.385016	50.0	909439.0	0.59385	Y
9	IC 280-621220/13	200.0	105.71562	50.0	951559.0	0.528578	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

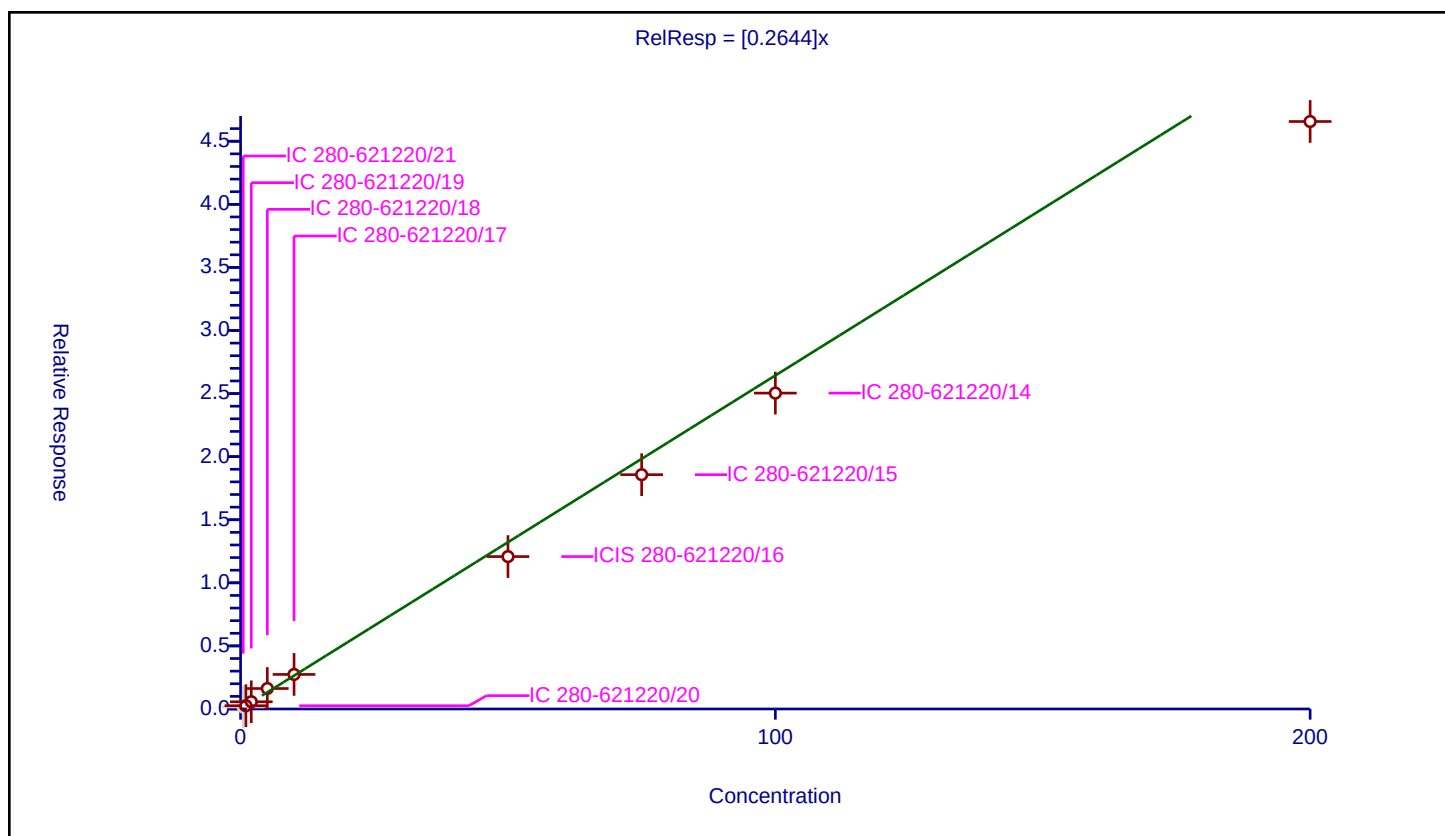
Curve Coefficients

Intercept: 0
Slope: 0.2644

Error Coefficients

Standard Error: 407000
Relative Standard Error: 11.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.158505	50.0	731522.0	0.31701	N
2	IC 280-621220/20	1.0	0.258473	50.0	789830.0	0.258473	Y
3	IC 280-621220/19	2.0	0.571837	50.0	834854.0	0.285918	Y
4	IC 280-621220/18	5.0	1.621524	50.0	841338.0	0.324305	Y
5	IC 280-621220/17	10.0	2.737894	50.0	852261.0	0.273789	Y
6	ICIS 280-621220/16	50.0	12.080205	50.0	917352.0	0.241604	Y
7	IC 280-621220/15	75.0	18.571584	50.0	902314.0	0.247621	Y
8	IC 280-621220/14	100.0	25.036753	50.0	909439.0	0.250368	Y
9	IC 280-621220/13	200.0	46.564165	50.0	951559.0	0.232821	Y



Calibration

/ Naphthalene

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

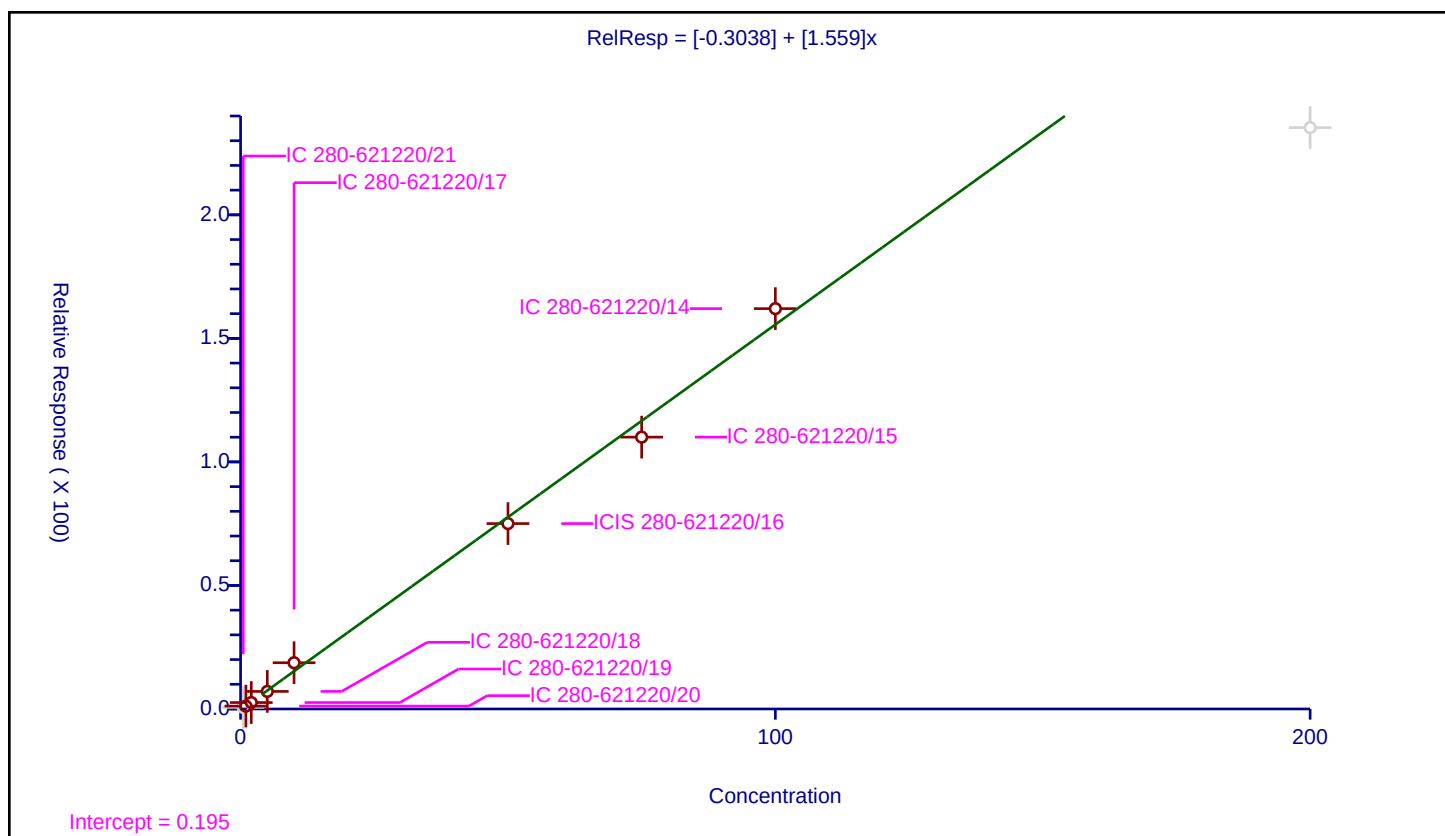
Curve Coefficients

Intercept: -0.3038
Slope: 1.559

Error Coefficients

Standard Error: 1710000
Relative Standard Error: 11.4
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.639079	50.0	731522.0	1.278157	N
2	IC 280-621220/20	1.0	1.168416	50.0	789830.0	1.168416	Y
3	IC 280-621220/19	2.0	2.604407	50.0	834854.0	1.302204	Y
4	IC 280-621220/18	5.0	7.1104	50.0	841338.0	1.42208	Y
5	IC 280-621220/17	10.0	18.722023	50.0	852261.0	1.872202	Y
6	ICIS 280-621220/16	50.0	75.040715	50.0	917352.0	1.500814	Y
7	IC 280-621220/15	75.0	110.032151	50.0	902314.0	1.467095	Y
8	IC 280-621220/14	100.0	162.042919	50.0	909439.0	1.620429	Y
9	IC 280-621220/13	200.0	235.303486	50.0	951559.0	1.176517	N



Calibration

/ 1,2,3-Trichlorobenzene

Curve Type: Quadratic
Weighting: None
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

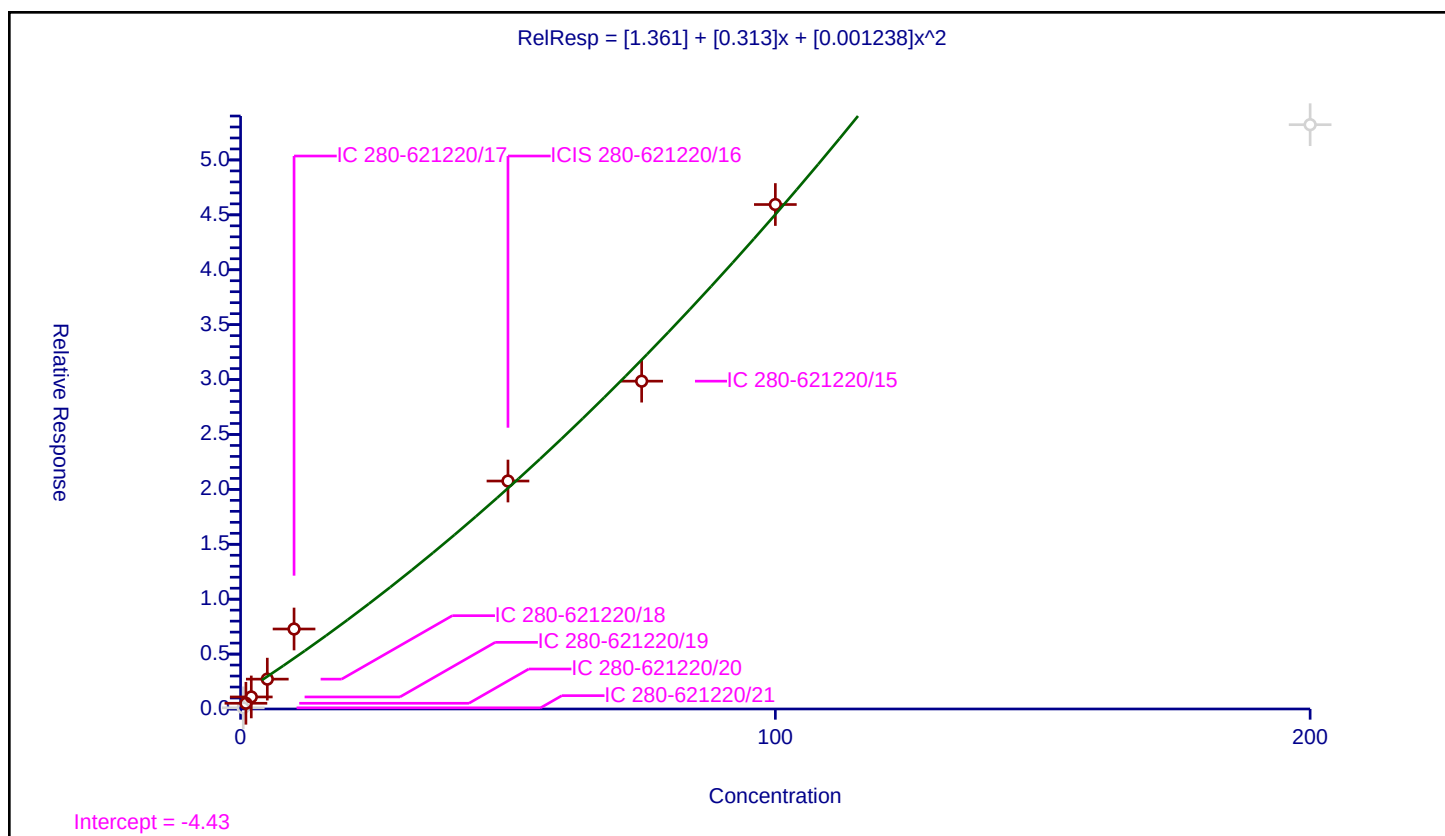
Curve Coefficients

Intercept: 1.361
Slope: 0.313
Second Order: 0.001238

Error Coefficients

Standard Error: 536000
Relative Standard Error: 202.6
Correlation Coefficient: 0.993
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.109088	50.0	731522.0	0.218175	N
2	IC 280-621220/20	1.0	0.521061	50.0	789830.0	0.521061	Y
3	IC 280-621220/19	2.0	1.09588	50.0	834854.0	0.54794	Y
4	IC 280-621220/18	5.0	2.719656	50.0	841338.0	0.543931	Y
5	IC 280-621220/17	10.0	7.283098	50.0	852261.0	0.72831	Y
6	ICIS 280-621220/16	50.0	20.760188	50.0	917352.0	0.415204	Y
7	IC 280-621220/15	75.0	29.85474	50.0	902314.0	0.398063	Y
8	IC 280-621220/14	100.0	45.939365	50.0	909439.0	0.459394	Y
9	IC 280-621220/13	200.0	53.20989	50.0	951559.0	0.266049	N



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Lab Sample ID: ICV 280-618851/35 Calibration Date: 07/10/2023 22:07

Instrument ID: VMS_MS13 Calib Start Date: 07/07/2023 23:31

GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 07/08/2023 02:29

Lab File ID: MS13_003256.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.1758	0.1000	53.6	50.0	7.1	30.0
Chloromethane	Ave	0.2566	0.2801	0.1000	54.6	50.0	9.2	30.0
Vinyl chloride	Ave	0.2201	0.2388	0.0100	54.2	50.0	8.5	30.0
Bromomethane	Ave	0.1446	0.1618	0.0100	56.0	50.0	11.9	30.0
Chloroethane	Ave	0.1650	0.1719	0.0100	52.1	50.0	4.2	30.0
Dichlorofluoromethane	Ave	0.3718	0.3596	0.0100	48.4	50.0	-3.3	30.0
Trichlorofluoromethane	Lin1		0.2926	0.0100	51.7	50.0	3.3	30.0
Ethyl ether	Ave	0.2394	0.2649	0.0100	55.3	50.0	10.7	30.0
Acrolein	Ave	0.0321	0.0453	0.0010	696	494	41.0*	30.0
1,1-Dichloroethene	Ave	0.1980	0.2072	0.0600	52.3	50.0	4.7	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1292	0.1451	0.0500	56.2	50.0	12.3	30.0
Acetone	Lin1		0.1166	0.0100	206	200	2.9	30.0
Iodomethane	Ave	0.3318	0.3470	0.0100	52.3	50.0	4.6	30.0
Carbon disulfide	Ave	0.7197	0.6677	0.1000	46.4	50.0	-7.2	30.0
Methyl acetate	Ave	0.3010	0.3039	0.0100	101	100	1.0	30.0
Allyl chloride	Ave	0.3876	0.4005	0.0100	51.7	50.0	3.3	30.0
Methylene Chloride	Lin2		0.2483	0.0100	52.9	50.0	5.9	30.0
2-Methyl-2-propanol	Lin1		0.0501	0.0010	425	500	-14.9	30.0
Acrylonitrile	Ave	0.1732	0.1634	0.0100	472	500	-5.7	30.0
Methyl tert-butyl ether	Ave	0.6643	0.7087	0.1000	53.3	50.0	6.7	30.0
trans-1,2-Dichloroethene	Ave	0.2354	0.2460	0.1000	52.3	50.0	4.5	30.0
Hexane	Ave	1.698	1.795	0.0100	52.8	50.0	5.7	30.0
Vinyl acetate	Ave	0.5903	0.6643	0.0100	113	100	12.5	30.0
1,1-Dichloroethane	Ave	0.4649	0.4964	0.1000	53.4	50.0	6.8	30.0
2-Butanone (MEK)	Lin2		0.2069	0.0100	182	200	-8.9	30.0
cis-1,2-Dichloroethene	Ave	0.2709	0.2810	0.1000	51.9	50.0	3.7	30.0
2,2-Dichloropropane	Ave	0.2392	0.2690	0.0100	56.2	50.0	12.5	30.0
sec-Butyl Alcohol	Ave	0.0438	0.0425	0.0100	1160	1200	-3.0	30.0
Chlorobromomethane	Ave	0.1220	0.1306	0.0500	53.5	50.0	7.0	30.0
Tetrahydrofuran	Ave	0.1431	0.1371	0.0010	95.8	100	-4.2	30.0
Chloroform	Ave	0.3930	0.4217	0.2000	53.6	50.0	7.3	30.0
1,1,1-Trichloroethane	Ave	0.3073	0.3434	0.0500	55.9	50.0	11.7	30.0
Cyclohexane	Ave	0.4699	0.5097	0.0100	54.2	50.0	8.5	30.0
1,1-Dichloropropene	Ave	0.3143	0.3384	0.0100	53.8	50.0	7.7	30.0
Carbon tetrachloride	Ave	0.2427	0.2780	0.1000	57.3	50.0	14.5	30.0
Isobutyl alcohol	Lin2		0.0160	0.0010	1140	1250	-8.6	30.0
Benzene	Ave	0.9575	1.004	0.2000	52.4	50.0	4.8	30.0
1,2-Dichloroethane	Ave	0.3631	0.3637	0.0700	50.1	50.0	0.2	30.0
n-Heptane	Ave	0.4106	0.4255		51.8	50.0	3.6	
Trichloroethene	Ave	1.004	1.008	0.2000	50.2	50.0	0.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Lab Sample ID: ICV 280-618851/35 Calibration Date: 07/10/2023 22:07

Instrument ID: VMS_MS13 Calib Start Date: 07/07/2023 23:31

GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 07/08/2023 02:29

Lab File ID: MS13_003256.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Ave	0.3572	0.3256	0.0010	146	160	-8.9	30.0
Methylcyclohexane	Ave	0.3795	0.4039	0.0500	53.2	50.0	6.4	30.0
1,2-Dichloropropane	Ave	0.2790	0.3000	0.1000	53.8	50.0	7.5	30.0
1,4-Dioxane	Lin1		0.0034	0.0010	892	1000	-10.8	30.0
Dibromomethane	Ave	0.1655	0.1595	0.0100	48.2	50.0	-3.7	30.0
Dichlorobromomethane	Ave	0.2798	0.3123	0.2000	55.8	50.0	11.6	30.0
2-Chloroethyl vinyl ether	Lin1		0.2332	0.0100	53.0	50.0	6.0	30.0
cis-1,3-Dichloropropene	Ave	1.403	1.590	0.2000	56.6	50.0	13.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4164	0.4133	0.0300	199	200	-0.7	30.0
Toluene	Ave	1.021	1.091	0.3000	53.4	50.0	6.8	30.0
trans-1,3-Dichloropropene	Ave	0.3534	0.3720	0.2000	52.6	50.0	5.3	30.0
Ethyl methacrylate	Ave	1.395	1.500	0.0100	53.8	50.0	7.5	30.0
1,1,2-Trichloroethane	Ave	0.2216	0.2415	0.1000	54.5	50.0	9.0	30.0
Tetrachloroethene	Ave	0.7330	0.7602	0.1000	51.9	50.0	3.7	30.0
1,3-Dichloropropane	Ave	1.590	1.618	0.0100	50.9	50.0	1.7	30.0
2-Hexanone	Ave	1.317	1.210	0.0100	184	200	-8.1	30.0
Chlorodibromomethane	Ave	0.8105	0.9036	0.1000	55.7	50.0	11.5	30.0
1,2-Dibromoethane	Ave	0.9511	0.9859	0.1000	51.8	50.0	3.7	30.0
1-Chlorohexane	Lin2		1.440	0.0100	42.2	40.0	5.4	30.0
Chlorobenzene	Ave	2.761	2.766	0.3000	50.1	50.0	0.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.7807	0.8713	0.0100	55.8	50.0	11.6	30.0
Ethylbenzene	Ave	1.430	1.510	0.3000	52.8	50.0	5.6	30.0
m-Xylene & p-Xylene	Ave	1.795	1.870	0.1000	52.1	50.0	4.2	30.0
o-Xylene	Ave	1.748	1.866	0.2000	53.4	50.0	6.7	30.0
Styrene	Ave	2.952	3.078	0.2000	52.1	50.0	4.3	30.0
Bromoform	Ave	0.5312	0.5809	0.1000	54.7	50.0	9.4	30.0
Isopropylbenzene	Ave	2.812	2.873	0.3000	51.1	50.0	2.2	30.0
Cyclohexanone	Qua		0.1156	0.0010	1680	1500	12.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8976	0.8806	0.3000	49.1	50.0	-1.9	30.0
Bromobenzene	Ave	0.7005	0.6616	0.0100	47.2	50.0	-5.5	30.0
trans-1,4-Dichloro-2-butene	Lin1		0.1181	0.0100	34.5	50.0	-31.1*	30.0
1,2,3-Trichloropropane	Ave	0.2892	0.2642	0.0100	45.7	50.0	-8.6	30.0
N-Propylbenzene	Ave	0.7871	0.7862	0.0100	49.9	50.0	-0.1	30.0
2-Chlorotoluene	Ave	0.6508	0.6617	0.0100	50.8	50.0	1.7	30.0
1,3,5-Trimethylbenzene	Ave	2.350	2.402	0.0100	51.1	50.0	2.2	30.0
4-Chlorotoluene	Ave	0.7039	0.6962	0.0100	49.5	50.0	-1.1	30.0
tert-Butylbenzene	Ave	2.041	2.030	0.0100	49.7	50.0	-0.5	30.0
1,2,4-Trimethylbenzene	Ave	2.416	2.489	0.3000	51.5	50.0	3.0	30.0
sec-Butylbenzene	Ave	0.5951	0.6030	0.0100	50.7	50.0	1.3	30.0
1,3-Dichlorobenzene	Ave	1.385	1.285	0.5000	46.4	50.0	-7.2	30.0
4-Isopropyltoluene	Ave	2.558	2.658	0.0100	52.0	50.0	3.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: ICV 280-618851/35 Calibration Date: 07/10/2023 22:07
 Instrument ID: VMS_MS13 Calib Start Date: 07/07/2023 23:31
 GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 07/08/2023 02:29
 Lab File ID: MS13_003256.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Lin2		1.312	0.5000	50.3	50.0	0.6	30.0
n-Butylbenzene	Ave	2.433	2.416	0.0100	49.7	50.0	-0.7	30.0
1,2-Dichlorobenzene	Ave	1.274	1.220	0.5000	47.9	50.0	-4.2	30.0
1,2-Dibromo-3-Chloropropane	Lin1		0.2015	0.0100	48.8	50.0	-2.3	30.0
1,2,4-Trichlorobenzene	Lin2		0.7891	0.2000	48.3	50.0	-3.5	30.0
Hexachlorobutadiene	Lin2		0.3155	0.0100	46.9	50.0	-6.3	30.0
Naphthalene	Ave	3.210	2.781	0.0100	43.3	50.0	-13.4	30.0
1,2,3-Trichlorobenzene	Lin2		0.7444	0.3000	46.4	50.0	-7.2	30.0
Dibromofluoromethane (Surr)	Ave	0.2460	0.2609	0.0100	53.0	50.0	6.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3027	0.3244	0.0100	53.6	50.0	7.2	30.0
Toluene-d8 (Surr)	Ave	4.085	4.197	0.0100	51.4	50.0	2.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9520	0.9313	0.0100	48.9	50.0	-2.2	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003256.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 10-Jul-2023 22:07:54 ALS Bottle#: 0 Worklist Smp#: 35
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0123341-035
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 10-Jul-2023 23:58:47 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	98	1417185	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	86	361941	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.958	-0.010	95	587233	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.662	4.673	-0.011	93	369753	50.0	53.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	95	459714	50.0	53.6	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	92	1519164	50.0	51.4	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	546879	50.0	48.9	
9 Dichlorodifluoromethane	85	1.709	1.709	0.000	99	249118	50.0	53.6	
10 Chloromethane	50	1.895	1.895	0.000	99	396994	50.0	54.6	
11 Vinyl chloride	62	1.999	1.999	0.000	98	338459	50.0	54.2	
12 Bromomethane	94	2.310	2.310	0.000	90	229337	50.0	56.0	
13 Chloroethane	64	2.393	2.393	0.000	100	243665	50.0	52.1	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	98	509682	50.0	48.4	
15 Trichlorofluoromethane	101	2.590	2.590	0.000	97	414660	50.0	51.7	
18 Ethyl ether	59	2.797	2.797	0.000	94	375452	50.0	55.3	
19 Acrolein	56	2.911	2.911	0.000	100	633874	493.8	696.2	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	96	293709	50.0	52.3	
22 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.015	3.015	0.000	94	205630	50.0	56.2	
21 Acetone	43	3.015	3.015	0.000	100	660745	200.0	205.8	
24 Iodomethane	142	3.118	3.118	0.000	98	491822	50.0	52.3	
25 Carbon disulfide	76	3.180	3.180	0.000	99	946268	50.0	46.4	
27 Methyl acetate	43	3.243	3.243	0.001	99	861406	100.0	101.0	
28 3-Chloro-1-propene	41	3.274	3.274	0.000	94	567512	50.0	51.7	
29 Methylene Chloride	84	3.367	3.367	0.000	99	351873	50.0	52.9	
30 2-Methyl-2-propanol	59	3.408	3.408	0.000	100	710027	500.0	425.4	
31 Acrylonitrile	53	3.533	3.533	0.000	99	2315112	500.0	471.5	
32 Methyl tert-butyl ether	73	3.554	3.553	0.001	96	1004300	50.0	53.3	
33 trans-1,2-Dichloroethene	96	3.574	3.564	0.010	96	348655	50.0	52.3	
34 Hexane	57	3.771	3.771	0.000	88	649609	50.0	52.8	
35 Vinyl acetate	43	3.875	3.875	0.000	97	1882930	100.0	112.5	
37 1,1-Dichloroethane	63	3.896	3.895	0.001	96	703526	50.0	53.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	4.289	4.289	0.000	100	1172983	200.0	182.2	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	83	398159	50.0	51.9	
43 2,2-Dichloropropane	77	4.320	4.320	0.000	88	381264	50.0	56.2	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	1444793	1200.0	1164.5	
47 Chlorobromomethane	128	4.486	4.486	0.000	94	185014	50.0	53.5	
48 Tetrahydrofuran	42	4.497	4.496	0.001	92	388517	100.0	95.8	
49 Chloroform	83	4.548	4.548	0.000	94	597594	50.0	53.6	
50 1,1,1-Trichloroethane	97	4.694	4.693	0.001	99	486609	50.0	55.9	
51 Cyclohexane	56	4.756	4.756	0.000	89	722368	50.0	54.2	
52 1,1-Dichloropropene	75	4.808	4.807	0.001	97	479538	50.0	53.8	
53 Carbon tetrachloride	117	4.818	4.818	0.000	95	393950	50.0	57.3	
54 Isobutyl alcohol	41	4.818	4.818	0.000	97	568554	1250.0	1142.0	
56 Benzene	78	4.963	4.963	0.000	97	1422152	50.0	52.4	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	96	515429	50.0	50.1	
59 n-Heptane	43	5.149	5.149	0.000	93	603001	50.0	51.8	
60 Trichloroethene	95	5.450	5.450	0.000	99	364832	50.0	50.2	
61 2-Pentanone	43	5.564	5.564	0.000	99	1476615	160.0	145.8	
62 Methylcyclohexane	55	5.647	5.647	0.000	96	572408	50.0	53.2	
64 1,2-Dichloropropane	63	5.668	5.667	0.001	98	425159	50.0	53.8	
65 1,4-Dioxane	88	5.699	5.709	-0.010	94	95661	1000.0	892.3	
66 Dibromomethane	93	5.730	5.730	0.000	97	226006	50.0	48.2	
67 Dichlorobromomethane	83	5.854	5.854	0.000	99	442626	50.0	55.8	
69 2-Chloroethyl vinyl ether	63	6.061	6.061	0.000	90	330459	50.0	53.0	
70 cis-1,3-Dichloropropene	75	6.207	6.206	0.001	96	575466	50.0	56.6	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	95	2343076	200.0	198.5	
72 Toluene	91	6.497	6.497	0.000	99	1545743	50.0	53.4	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	95	527220	50.0	52.6	
74 Ethyl methacrylate	69	6.694	6.693	0.001	92	542762	50.0	53.8	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	92	342235	50.0	54.5	
76 Tetrachloroethene	164	6.942	6.942	0.000	96	275163	50.0	51.9	
77 1,3-Dichloropropane	76	7.005	7.004	0.000	95	585464	50.0	50.9	
78 2-Hexanone	43	7.015	7.025	-0.010	94	1751663	200.0	183.8	
79 Chlorodibromomethane	129	7.191	7.191	0.000	91	327066	50.0	55.7	
80 Ethylene Dibromide	107	7.315	7.315	0.000	99	356833	50.0	51.8	
81 1-Chlorohexane	91	7.709	7.709	0.000	97	416977	40.0	42.2	
82 Chlorobenzene	112	7.751	7.750	0.001	95	1001154	50.0	50.1	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	95	315359	50.0	55.8	
84 Ethylbenzene	106	7.823	7.823	0.000	98	546509	50.0	52.8	
85 m-Xylene & p-Xylene	106	7.937	7.937	0.000	100	676663	50.0	52.1	
86 o-Xylene	106	8.310	8.310	0.000	96	675308	50.0	53.4	
87 Styrene	104	8.321	8.320	0.001	95	1114100	50.0	52.1	
88 Bromoform	173	8.507	8.507	0.000	97	210244	50.0	54.7	
89 Isopropylbenzene	105	8.642	8.652	-0.010	96	1687372	50.0	51.1	
91 Cyclohexanone	55	8.746	8.745	0.001	91	1254789	1500.0	1679.9	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	517129	50.0	49.1	
93 Bromobenzene	156	8.974	8.973	0.001	96	388533	50.0	47.2	
94 trans-1,4-Dichloro-2-butene	53	8.974	8.973	0.001	77	69334	50.0	34.5	
95 1,2,3-Trichloropropane	110	8.994	8.994	0.000	83	155155	50.0	45.7	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	461687	50.0	49.9	
97 2-Chlorotoluene	126	9.139	9.150	-0.011	96	388551	50.0	50.8	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	1410621	50.0	51.1	
99 4-Chlorotoluene	126	9.264	9.264	0.000	97	408824	50.0	49.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	1192267	50.0	49.7	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	1461570	50.0	51.5	
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	354110	50.0	50.7	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	754842	50.0	46.4	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	98	1561009	50.0	52.0	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	94	770321	50.0	50.3	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	1419016	50.0	49.7	
109 1,2-Dichlorobenzene	146	10.341	10.341	0.000	98	716684	50.0	47.9	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	85	118342	50.0	48.8	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	95	463367	50.0	48.3	
113 Hexachlorobutadiene	225	12.082	12.082	0.000	97	185293	50.0	46.9	
114 Naphthalene	128	12.217	12.217	0.000	97	1632879	50.0	43.3	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	96	437127	50.0	46.4	
127 Butadiene	54		0.000				ND	ND	
S 128 Xylenes, Total	106				0		100.0	105.4	
S 129 Trihalomethanes, Total	1				0		200.0	219.9	
S 131 1,3-Dichloropropene, Total	1				0		100.0	109.3	
S 133 1,2-Dichloroethene, Total	1				0		100.0	104.1	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-MegaMainA_00091

Amount Added: 25.00

Units: uL

MV-Gas A_00156

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003256.D

Injection Date: 10-Jul-2023 22:07:54

Instrument ID: VMS_MS13

Lims ID: ICV

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

35

Purge Vol: 5.000 mL

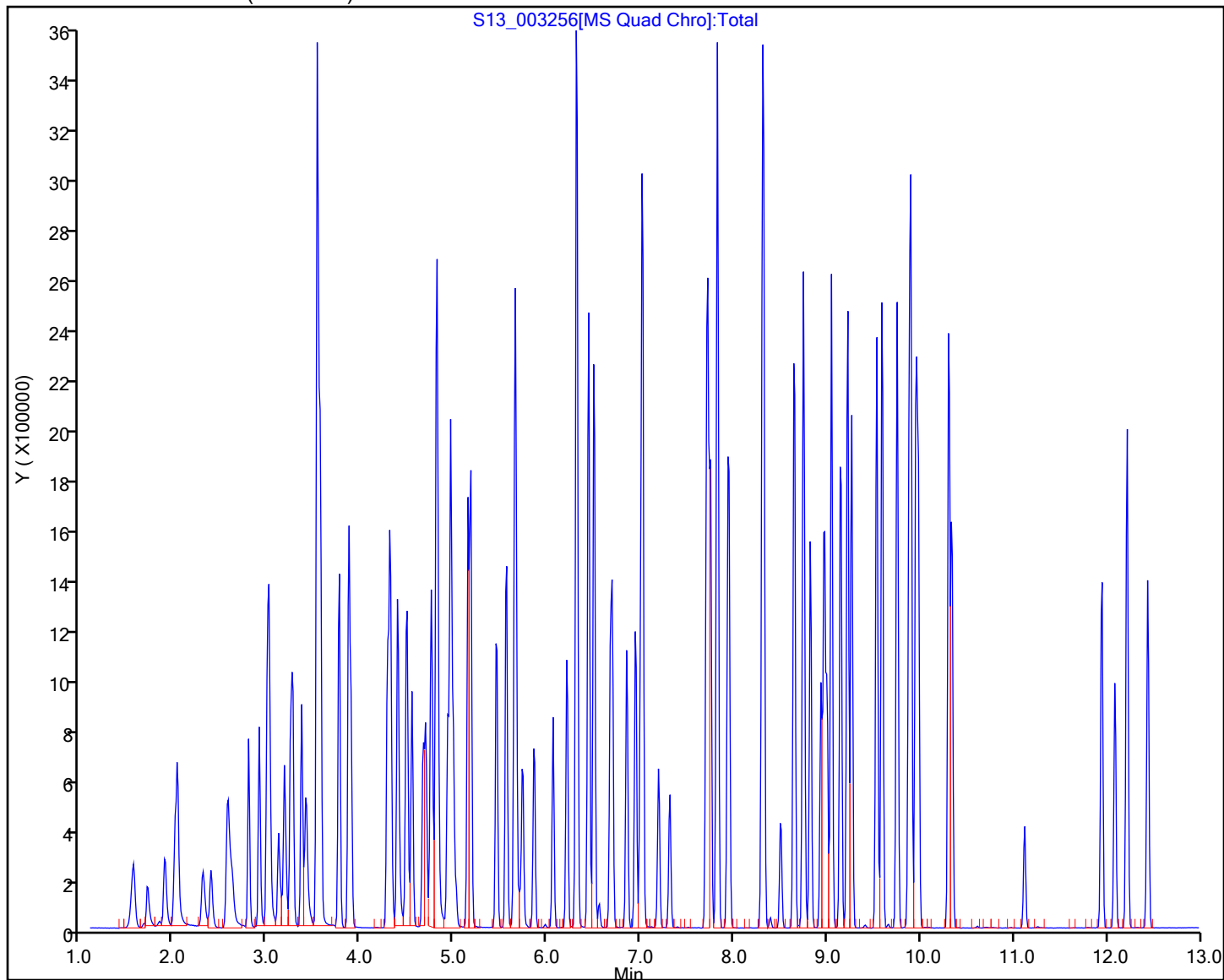
Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: ICV 280-619014/32 Calibration Date: 07/11/2023 02:00
 Instrument ID: VMS_MS13 Calib Start Date: 07/10/2023 23:01
 GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 07/11/2023 01:38
 Lab File ID: MS13_003266.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0046	0.0028*	0.0100	1800	3000	-39.9*	30.0
Isopropyl alcohol	Lin1		0.0205	0.0100	342	500	-31.5*	30.0
Acetonitrile	Lin2		0.0441	0.0100	403	500	-19.4	30.0
Isopropyl ether	Ave	0.2219	0.2093	0.0100	47.2	50.0	-5.7	30.0
Chloroprene	Ave	0.4491	0.4426	0.0100	49.3	50.0	-1.5	30.0
Tert-butyl ethyl ether	Ave	0.9029	0.8708	0.0100	48.2	50.0	-3.6	30.0
Ethyl acetate	Ave	0.4246	0.3942	0.0100	92.9	100	-7.1	30.0
Propionitrile	Ave	0.0759	0.0619	0.0100	408	500	-18.4	30.0
Methacrylonitrile	Ave	0.2286	0.2181	0.0100	477	500	-4.6	30.0
n-Butanol	Ave	0.0149	0.0140	0.0100	1170	1250	-6.2	30.0
Tert-amyl methyl ether	Ave	0.7703	0.7412	0.0100	48.1	50.0	-3.8	30.0
Methyl methacrylate	Ave	0.0963	0.0988	0.0100	103	100	2.6	30.0
2-Nitropropane	Ave	0.0607	0.0522	0.0100	86.0	100	-14.0	30.0
cis-1,4-Dichloro-2-butene	Lin1		0.1616	0.0100	104	100	4.5	30.0
1,2,3-Trimethylbenzene	Ave	2.540	2.525	0.0100	49.7	50.0	-0.6	30.0
1,3,5-Trichlorobenzene	Ave	0.9377	0.8617	0.0100	45.9	50.0	-8.1	30.0
Dibromofluoromethane (Surr)	Ave	0.2555	0.2580	0.0100	50.5	50.0	1.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3176	0.3205	0.0100	50.5	50.0	0.9	30.0
Toluene-d8 (Surr)	Ave	4.210	4.245	0.0100	50.4	50.0	0.8	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9420	0.9226	0.0100	49.0	50.0	-2.1	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003266.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Jul-2023 02:00:43 ALS Bottle#: 0 Worklist Smp#: 32
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0123383-032
 Operator ID: ccf Instrument ID: VMS_MS13
 Sublist:

Method: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 11-Jul-2023 13:30:48 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D

Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1672

First Level Reviewer: RWB2

Date: 11-Jul-2023 09:36:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1391294	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	348148	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.948	0.010	95	569085	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	358912	50.0	50.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	95	445855	50.0	50.5	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1477805	50.0	50.4	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	86	525060	50.0	49.0	
16 Ethanol	45	2.704	2.704	0.000	96	233376	3000.0	1804.3	M
23 Isopropyl alcohol	45	3.098	3.108	-0.010	99	285141	500.0	342.5	
26 Acetonitrile	41	3.232	3.232	0.000	99	613896	500.0	402.9	
36 Isopropyl ether	87	3.896	3.896	0.000	96	291232	50.0	47.2	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	91	615735	50.0	49.3	
39 Tert-butyl ethyl ether	59	4.155	4.165	-0.010	99	1211538	50.0	48.2	
41 Ethyl acetate	43	4.300	4.300	0.000	99	1097035	100.0	92.9	
44 Propionitrile	54	4.341	4.341	0.000	99	861649	500.0	407.8	
46 Methacrylonitrile	41	4.455	4.455	0.000	91	3034233	500.0	477.0	
58 Tert-amyl methyl ether	73	5.035	5.036	-0.001	79	1031227	50.0	48.1	
55 n-Butanol	56	5.035	5.036	-0.001	47	487231	1250.0	1172.8	
63 Methyl methacrylate	100	5.668	5.668	0.000	95	274798	100.0	102.6	
68 2-Nitropropane	41	6.030	6.030	0.000	98	145372	100.0	86.0	
90 cis-1,4-Dichloro-2-butene	53	8.704	8.694	0.010	94	183922	100.0	104.5	a
107 1,2,3-Trimethylbenzene	105	9.999	9.999	0.000	98	1437194	50.0	49.7	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	97	490382	50.0	45.9	a
125 t-Amyl alcohol	1		0.000				ND	ND	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MV-Supp A_00083

Amount Added: 50.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003266.D

Injection Date: 11-Jul-2023 02:00:43

Instrument ID: VMS_MS13

Lims ID: ICV

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

32

Purge Vol: 5.000 mL

Dil. Factor:

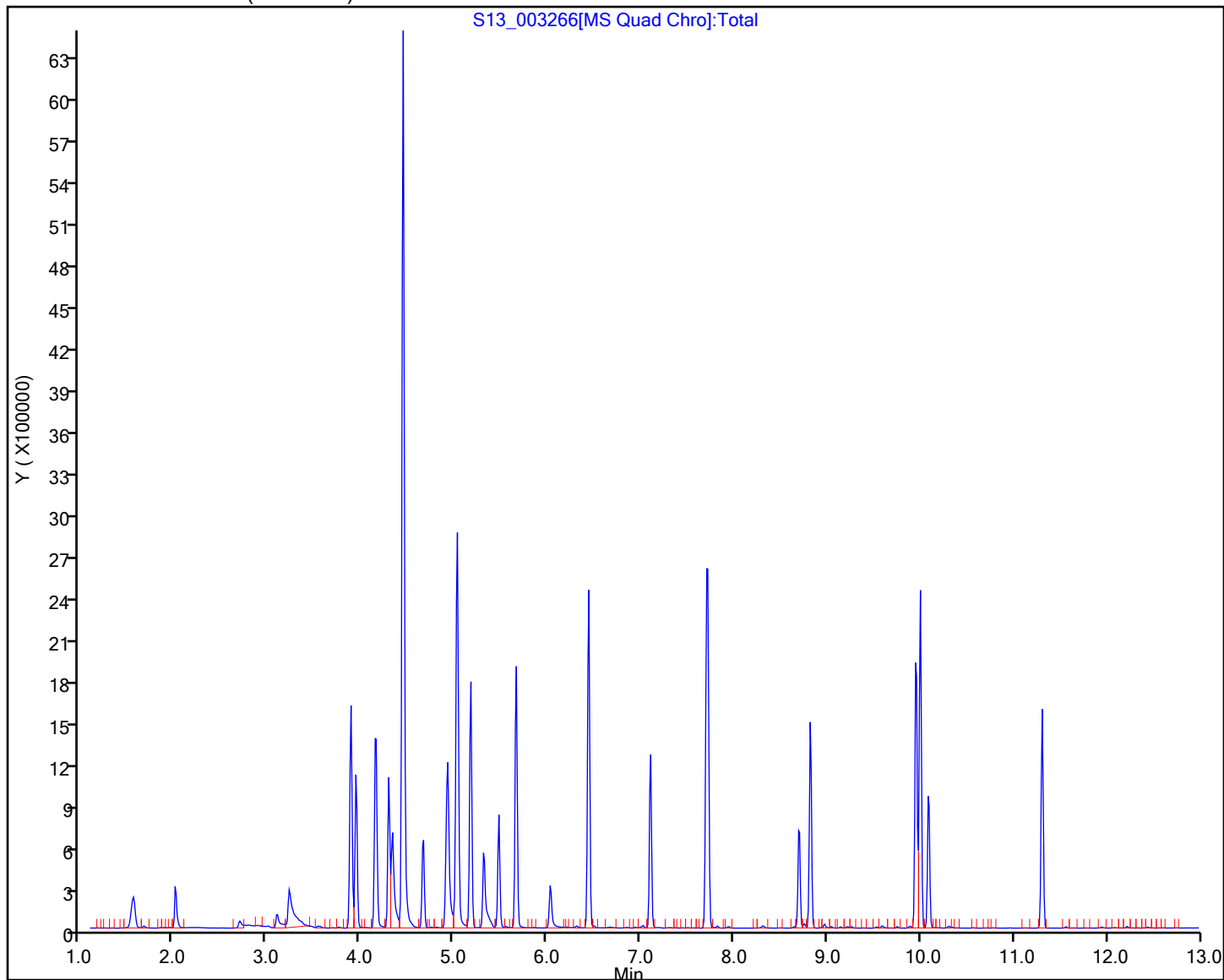
1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver

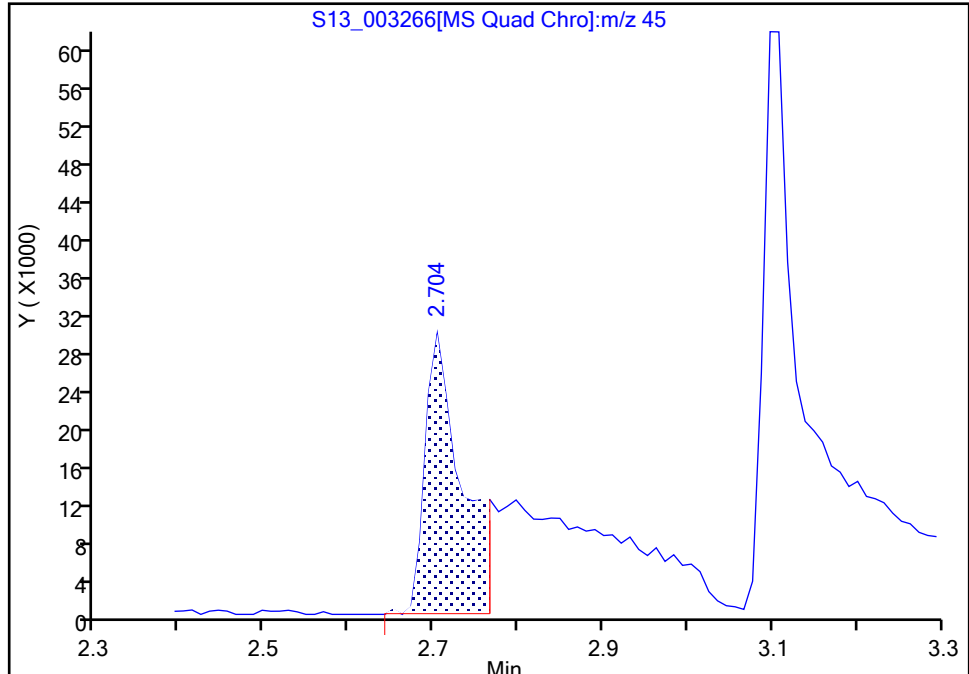
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003266.D
Injection Date: 11-Jul-2023 02:00:43 Instrument ID: VMS_MS13
Lims ID: ICV
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

16 Ethanol, CAS: 64-17-5

Signal: 1

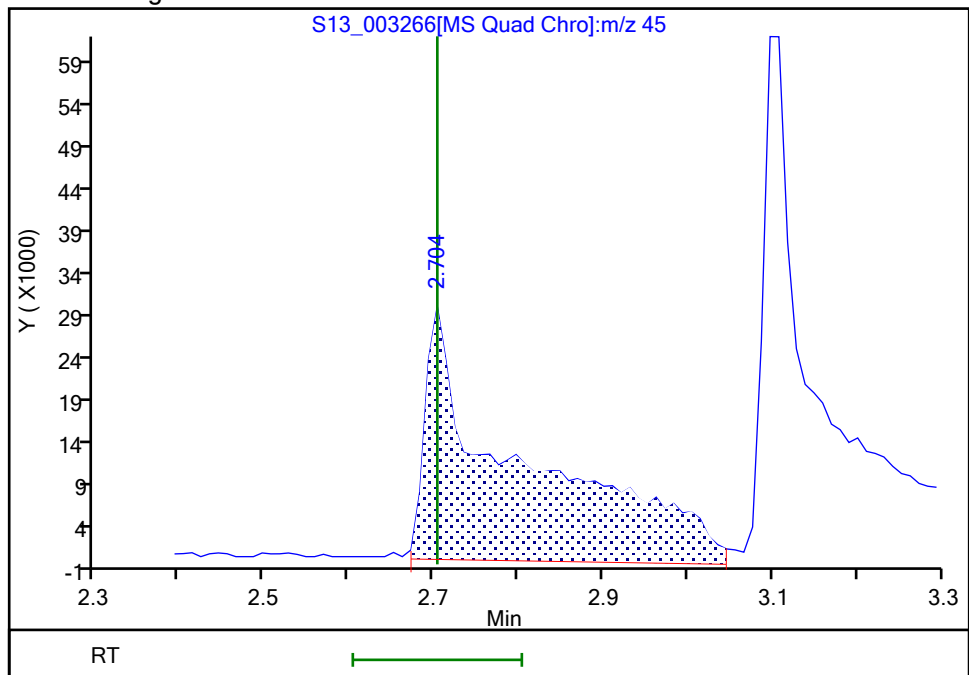
RT: 2.70
Area: 92628
Amount: 839.8837
Amount Units: ug/l

Processing Integration Results



RT: 2.70
Area: 233376
Amount: 1804.2619
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:48:07 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

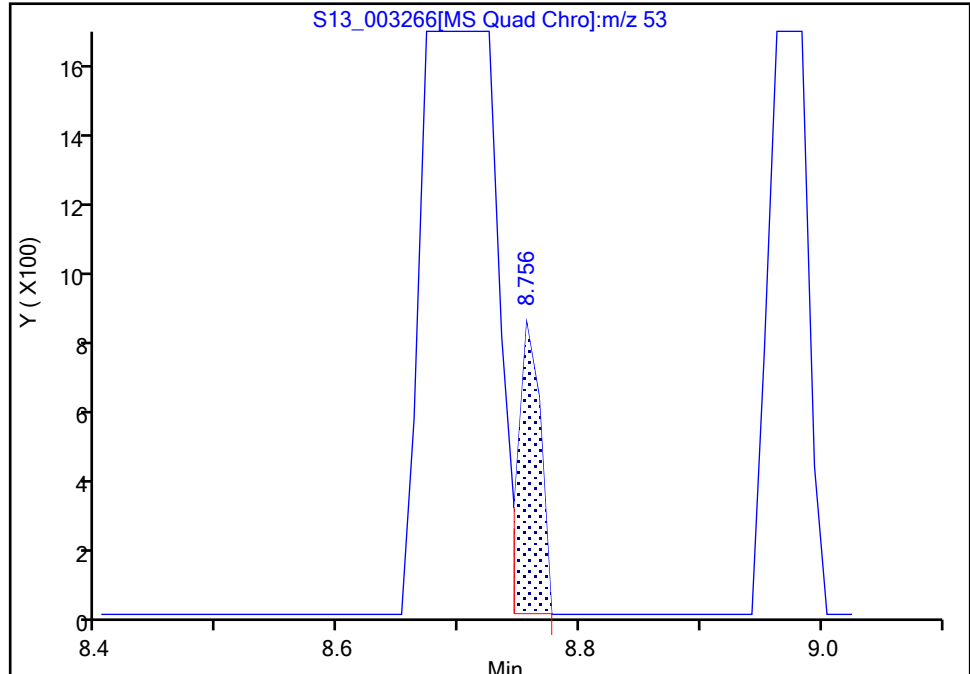
Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003266.D
Injection Date: 11-Jul-2023 02:00:43 Instrument ID: VMS_MS13
Lims ID: ICV
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector MS Quad

90 cis-1,4-Dichloro-2-butene, CAS: 1476-11-5

Signal: 1

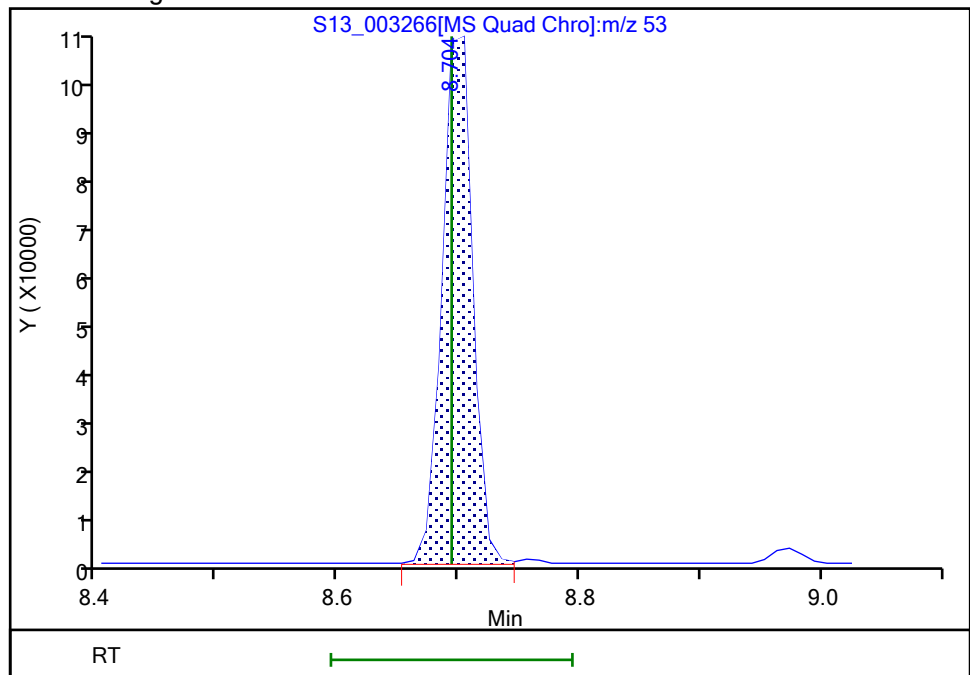
RT: 8.76
Area: 1069
Amount: 1.953078
Amount Units: ug/l

Processing Integration Results



RT: 8.70
Area: 183922
Amount: 104.4751
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:36:24 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Split Peak

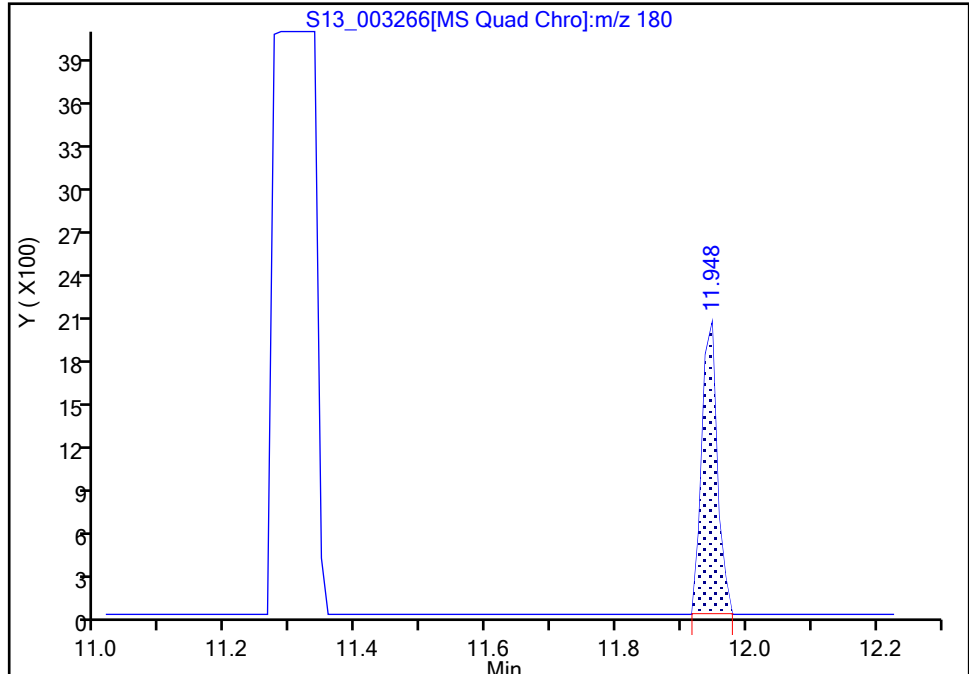
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003266.D
Injection Date: 11-Jul-2023 02:00:43 Instrument ID: VMS_MS13
Lims ID: ICV
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 32
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

111 1,3,5-Trichlorobenzene, CAS: 108-70-3
Signal: 1

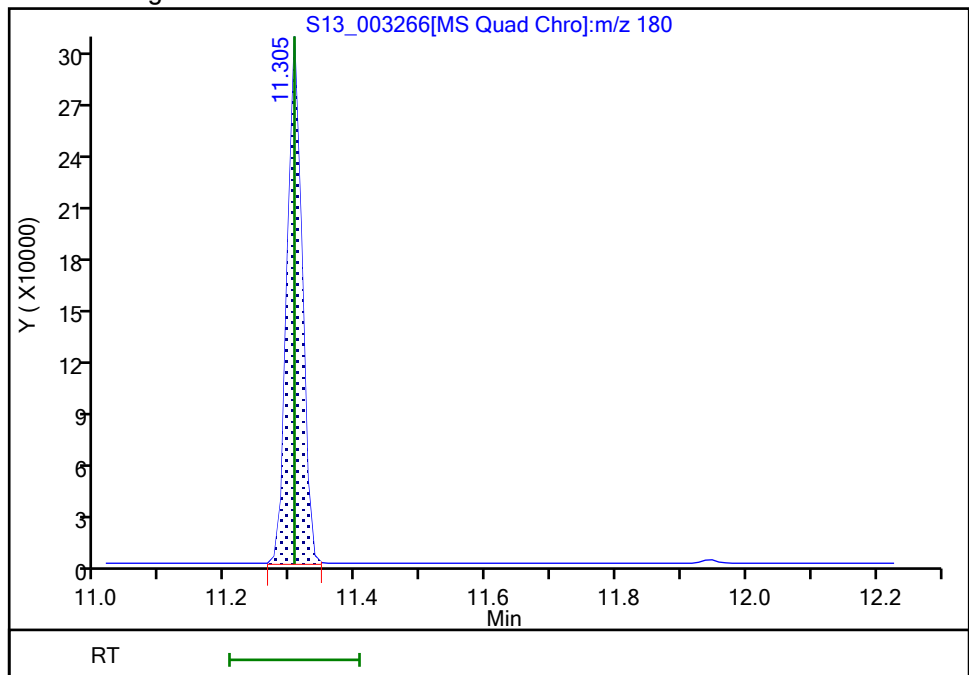
RT: 11.95
Area: 3322
Amount: 0.311277
Amount Units: ug/l

Processing Integration Results



RT: 11.31
Area: 490382
Amount: 45.949584
Amount Units: ug/l

Manual Integration Results



Reviewer: RWB2, 11-Jul-2023 09:44:09 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621382/3 Calibration Date: 08/01/2023 09:08
 Instrument ID: VMS_MS13 Calib Start Date: 07/10/2023 23:01
 GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 07/11/2023 01:38
 Lab File ID: MS13_004049.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0046	0.0024*	0.0100	786	1500	-47.6*	20.0
Isopropyl alcohol	Lin1		0.0168	0.0100	141	250	-43.4*	20.0
Acetonitrile	Lin2		0.0341	0.0100	159	250	-36.5*	20.0
Isopropyl ether	Ave	0.2219	0.1900	0.0100	21.4	25.0	-14.4	20.0
Chloroprene	Ave	0.4491	0.3649	0.0100	20.3	25.0	-18.8	20.0
Tert-butyl ethyl ether	Ave	0.9029	0.7639	0.0100	21.2	25.0	-15.4	20.0
Ethyl acetate	Ave	0.4246	0.3447	0.0100	40.6	50.0	-18.8	20.0
Propionitrile	Ave	0.0759	0.0526	0.0100	173	250	-30.8*	20.0
Methacrylonitrile	Ave	0.2286	0.1764	0.0100	193	250	-22.8*	20.0
n-Butanol	Ave	0.0149	0.0102	0.0100	427	625	-31.7*	20.0
Tert-amyl methyl ether	Ave	0.7703	0.6446	0.0100	20.9	25.0	-16.3	20.0
Methyl methacrylate	Ave	0.0963	0.0822	0.0100	42.7	50.0	-14.6	20.0
2-Nitropropane	Ave	0.0607	0.0409	0.0100	33.6	50.0	-32.7*	20.0
cis-1,4-Dichloro-2-butene	Lin1		0.1910	0.0100	62.9	50.0	25.8*	20.0
1,2,3-Trimethylbenzene	Ave	2.540	2.377	0.0100	23.4	25.0	-6.4	20.0
1,3,5-Trichlorobenzene	Ave	0.9377	0.7826	0.0100	20.9	25.0	-16.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2555	0.2429	0.0100	47.5	50.0	-4.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3176	0.2936	0.0100	46.2	50.0	-7.5	20.0
Toluene-d8 (Surr)	Ave	4.210	4.192	0.0100	49.8	50.0	-0.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9420	0.9530	0.0100	50.6	50.0	1.2	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004049.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Aug-2023 09:08:57 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: COULTER Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub8
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 13:07:45 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1684

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1382635	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	317493	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	95	491662	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.663	4.663	0.000	92	335810	50.0	47.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	95	405985	50.0	46.2	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1330859	50.0	49.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	468554	50.0	50.6	
16 Ethanol	45	2.694	2.694	0.000	98	101068	1500.0	786.3	
23 Isopropyl alcohol	45	3.098	3.098	0.000	99	116002	250.0	141.5	
26 Acetonitrile	41	3.232	3.232	0.000	100	235654	250.0	158.7	
36 Isopropyl ether	87	3.885	3.885	0.000	97	131377	25.0	21.4	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	91	252236	25.0	20.3	
39 Tert-butyl ethyl ether	59	4.155	4.155	0.000	99	528112	25.0	21.2	
41 Ethyl acetate	43	4.300	4.300	0.000	99	476594	50.0	40.6	
44 Propionitrile	54	4.331	4.331	0.000	99	363501	250.0	173.1	
46 Methacrylonitrile	41	4.445	4.445	0.000	91	1219459	250.0	192.9	
58 Tert-amyl methyl ether	73	5.025	5.025	0.000	87	445593	25.0	20.9	
55 n-Butanol	56	5.025	5.025	0.000	50	176352	625.0	427.2	
63 Methyl methacrylate	100	5.668	5.668	0.000	93	113659	50.0	42.7	
68 2-Nitropropane	41	6.030	6.030	0.000	97	56515	50.0	33.6	
90 cis-1,4-Dichloro-2-butene	53	8.694	8.694	0.000	95	93889	50.0	62.9	
107 1,2,3-Trimethylbenzene	105	10.000	10.000	0.000	98	584442	25.0	23.4	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	97	192399	25.0	20.9	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00064

Amount Added: 25.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004049.D

Injection Date: 01-Aug-2023 09:08:57

Instrument ID: VMS_MS13

Lims ID: CCV

Client ID:

Operator ID: COULTER

ALS Bottle#: 0

Worklist Smp#: 3

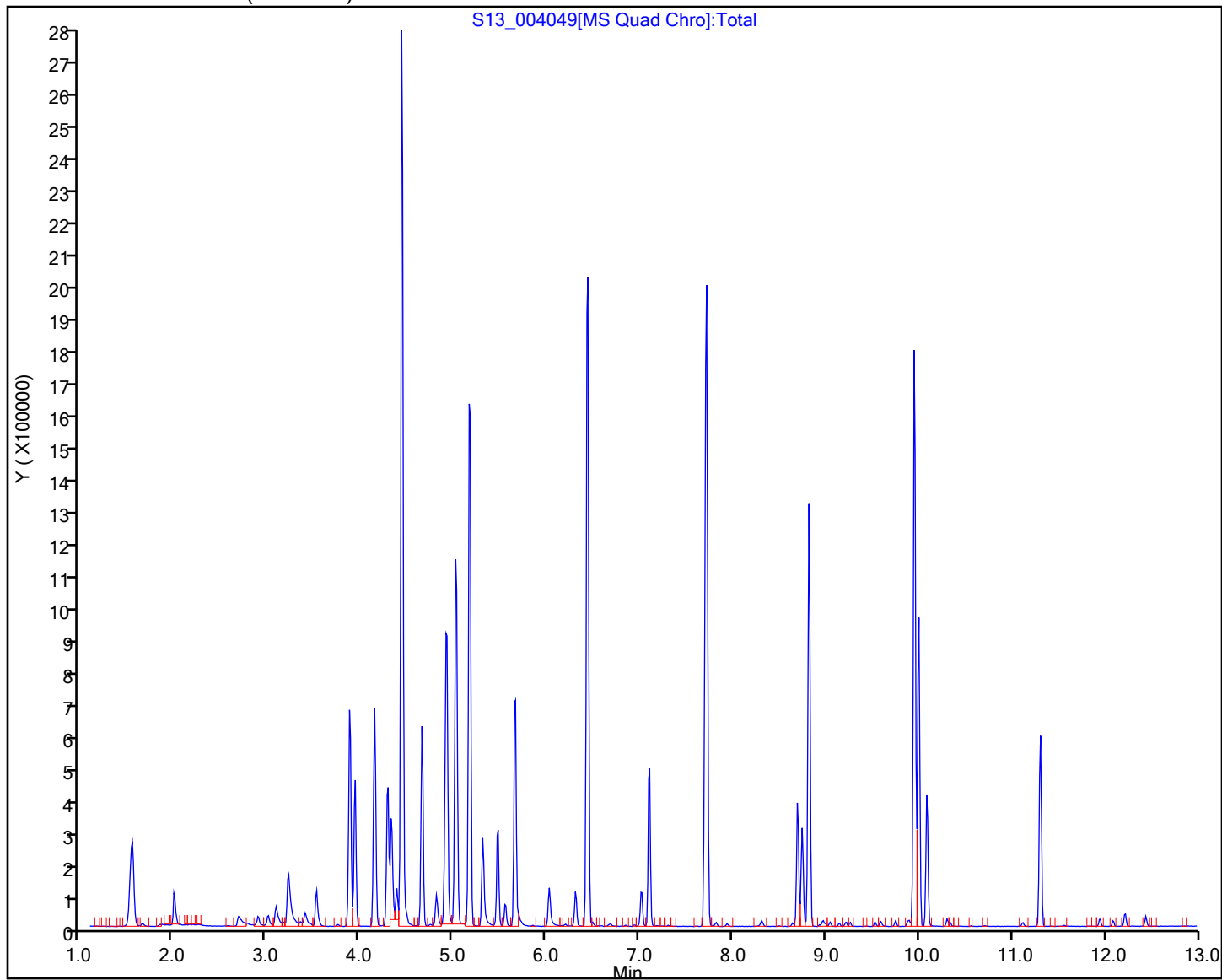
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Lab Sample ID: CCV 280-621382/13 Calibration Date: 08/01/2023 10:18

Instrument ID: VMS_MS13 Calib Start Date: 07/07/2023 23:31

GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 07/08/2023 02:29

Lab File ID: MS13_004051.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.1750	0.1000	53.3	50.0	6.6	20.0
Chloromethane	Ave	0.2566	0.2695	0.1000	52.5	50.0	5.0	20.0
Vinyl chloride	Ave	0.2201	0.2374	0.0100	53.9	50.0	7.9	20.0
Bromomethane	Ave	0.1446	0.1573	0.0100	54.4	50.0	8.8	20.0
Chloroethane	Ave	0.1650	0.1667	0.0100	50.5	50.0	1.1	20.0
Dichlorofluoromethane	Ave	0.3718	0.3807	0.0100	51.2	50.0	2.4	20.0
Trichlorofluoromethane	Lin1		0.2754	0.0100	48.7	50.0	-2.7	20.0
Ethyl ether	Ave	0.2394	0.2434	0.0100	50.8	50.0	1.7	20.0
Acrolein	Ave	0.0321	0.0513	0.0010	788	494	59.6*	20.0
1,1-Dichloroethene	Ave	0.1980	0.1994	0.0600	50.3	50.0	0.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1292	0.1360	0.0500	52.6	50.0	5.3	20.0
Acetone	Lin1		0.1017	0.0100	179	200	-10.5	20.0
Iodomethane	Ave	0.3318	0.3426	0.0100	51.6	50.0	3.2	20.0
Carbon disulfide	Ave	0.7197	0.6542	0.1000	45.4	50.0	-9.1	20.0
Methyl acetate	Ave	0.3010	0.2644	0.0100	87.8	100	-12.2	20.0
Allyl chloride	Ave	0.3876	0.3792	0.0100	48.9	50.0	-2.2	20.0
Methylene Chloride	Lin2		0.2410	0.0100	51.4	50.0	2.8	20.0
2-Methyl-2-propanol	Lin1		0.0448	0.0010	381	500	-23.9*	20.0
Acrylonitrile	Ave	0.1732	0.1493	0.0100	431	500	-13.8	20.0
Methyl tert-butyl ether	Ave	0.6643	0.6927	0.1000	52.1	50.0	4.3	20.0
trans-1,2-Dichloroethene	Ave	0.2354	0.2332	0.1000	49.5	50.0	-0.9	20.0
Hexane	Ave	1.698	1.767	0.0100	52.0	50.0	4.1	20.0
Vinyl acetate	Ave	0.5903	0.6003	0.0100	102	100	1.7	20.0
1,1-Dichloroethane	Ave	0.4649	0.4702	0.1000	50.6	50.0	1.1	20.0
2-Butanone (MEK)	Lin2		0.1881	0.0100	166	200	-17.2	20.0
cis-1,2-Dichloroethene	Ave	0.2709	0.2638	0.1000	48.7	50.0	-2.6	20.0
2,2-Dichloropropane	Ave	0.2392	0.2704	0.0100	56.5	50.0	13.0	20.0
sec-Butyl Alcohol	Ave	0.0438	0.0360	0.0100	988	1200	-17.7	20.0
Chlorobromomethane	Ave	0.1220	0.1242	0.0500	50.9	50.0	1.8	20.0
Tetrahydrofuran	Ave	0.1431	0.1195	0.0010	83.5	100	-16.5	20.0
Chloroform	Ave	0.3930	0.4047	0.2000	51.5	50.0	3.0	20.0
1,1,1-Trichloroethane	Ave	0.3073	0.3316	0.0500	53.9	50.0	7.9	20.0
Cyclohexane	Ave	0.4699	0.4701	0.0100	50.0	50.0	0.0	20.0
1,1-Dichloropropene	Ave	0.3143	0.3200	0.0100	50.9	50.0	1.8	20.0
Carbon tetrachloride	Ave	0.2427	0.2695	0.1000	55.5	50.0	11.0	20.0
Isobutyl alcohol	Lin2		0.0137	0.0010	974	1250	-22.1*	20.0
Benzene	Ave	0.9575	0.9731	0.2000	50.8	50.0	1.6	20.0
1,2-Dichloroethane	Ave	0.3631	0.3412	0.0700	47.0	50.0	-6.0	20.0
n-Heptane	Ave	0.4106	0.3338		40.6	50.0	-18.7	
Trichloroethene	Ave	1.004	1.079	0.2000	53.7	50.0	7.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Lab Sample ID: CCV 280-621382/13 Calibration Date: 08/01/2023 10:18

Instrument ID: VMS_MS13 Calib Start Date: 07/07/2023 23:31

GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 07/08/2023 02:29

Lab File ID: MS13_004051.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Ave	0.3572	0.3079	0.0010	138	160	-13.8	20.0
Methylcyclohexane	Ave	0.3795	0.3534	0.0500	46.6	50.0	-6.9	20.0
1,2-Dichloropropane	Ave	0.2790	0.2850	0.1000	51.1	50.0	2.2	20.0
1,4-Dioxane	Lin1		0.0028	0.0010	750	1000	-25.0*	20.0
Dibromomethane	Ave	0.1655	0.1581	0.0100	47.8	50.0	-4.5	20.0
Dichlorobromomethane	Ave	0.2798	0.2961	0.2000	52.9	50.0	5.8	20.0
2-Chloroethyl vinyl ether	Lin1		0.1949	0.0100	44.3	50.0	-11.3	20.0
cis-1,3-Dichloropropene	Ave	1.403	1.626	0.2000	58.0	50.0	15.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4164	0.3737	0.0300	180	200	-10.2	20.0
Toluene	Ave	1.021	1.027	0.3000	50.3	50.0	0.6	20.0
trans-1,3-Dichloropropene	Ave	0.3534	0.3663	0.2000	51.8	50.0	3.7	20.0
Ethyl methacrylate	Ave	1.395	1.571	0.0100	56.3	50.0	12.6	20.0
1,1,2-Trichloroethane	Ave	0.2216	0.2263	0.1000	51.1	50.0	2.2	20.0
Tetrachloroethene	Ave	0.7330	0.8049	0.1000	54.9	50.0	9.8	20.0
1,3-Dichloropropane	Ave	1.590	1.704	0.0100	53.6	50.0	7.2	20.0
2-Hexanone	Ave	1.317	1.232	0.0100	187	200	-6.4	20.0
Chlorodibromomethane	Ave	0.8105	0.9766	0.1000	60.2	50.0	20.5*	20.0
1,2-Dibromoethane	Ave	0.9511	1.029	0.1000	54.1	50.0	8.2	20.0
1-Chlorohexane	Lin2		1.487	0.0100	43.6	40.0	8.9	20.0
Chlorobenzene	Ave	2.761	2.905	0.3000	52.6	50.0	5.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7807	0.9285	0.0100	59.5	50.0	18.9	20.0
Ethylbenzene	Ave	1.430	1.568	0.3000	54.8	50.0	9.7	20.0
m-Xylene & p-Xylene	Ave	1.795	1.952	0.1000	54.4	50.0	8.7	20.0
o-Xylene	Ave	1.748	1.919	0.2000	54.9	50.0	9.8	20.0
Styrene	Ave	2.952	3.306	0.2000	56.0	50.0	12.0	20.0
Bromoform	Ave	0.5312	0.5955	0.1000	56.1	50.0	12.1	20.0
Isopropylbenzene	Ave	2.812	3.135	0.3000	55.7	50.0	11.5	20.0
Cyclohexanone	Qua		0.1017	0.0010	1450	1500	-3.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8976	0.9496	0.3000	52.9	50.0	5.8	20.0
Bromobenzene	Ave	0.7005	0.7331	0.0100	52.3	50.0	4.7	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2839	0.0100	80.9	50.0	61.8*	20.0
1,2,3-Trichloropropane	Ave	0.2892	0.3040	0.0100	52.6	50.0	5.1	20.0
N-Propylbenzene	Ave	0.7871	0.8543	0.0100	54.3	50.0	8.5	20.0
2-Chlorotoluene	Ave	0.6508	0.7209	0.0100	55.4	50.0	10.8	20.0
1,3,5-Trimethylbenzene	Ave	2.350	2.572	0.0100	54.7	50.0	9.4	20.0
4-Chlorotoluene	Ave	0.7039	0.7531	0.0100	53.5	50.0	7.0	20.0
tert-Butylbenzene	Ave	2.041	2.191	0.0100	53.7	50.0	7.3	20.0
1,2,4-Trimethylbenzene	Ave	2.416	2.618	0.3000	54.2	50.0	8.3	20.0
sec-Butylbenzene	Ave	0.5951	0.6230	0.0100	52.3	50.0	4.7	20.0
1,3-Dichlorobenzene	Ave	1.385	1.419	0.5000	51.2	50.0	2.4	20.0
4-Isopropyltoluene	Ave	2.558	2.718	0.0100	53.1	50.0	6.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621382/13 Calibration Date: 08/01/2023 10:18
 Instrument ID: VMS_MS13 Calib Start Date: 07/07/2023 23:31
 GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 07/08/2023 02:29
 Lab File ID: MS13_004051.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Lin2		1.434	0.5000	55.0	50.0	10.0	20.0
n-Butylbenzene	Ave	2.433	2.445	0.0100	50.3	50.0	0.5	20.0
1,2-Dichlorobenzene	Ave	1.274	1.343	0.5000	52.7	50.0	5.4	20.0
1,2-Dibromo-3-Chloropropane	Lin1		0.2112	0.0100	51.2	50.0	2.4	20.0
1,2,4-Trichlorobenzene	Lin2		0.8500	0.2000	52.0	50.0	4.0	20.0
Hexachlorobutadiene	Lin2		0.2835	0.0100	42.1	50.0	-15.8	20.0
Naphthalene	Ave	3.210	3.013	0.0100	46.9	50.0	-6.1	20.0
1,2,3-Trichlorobenzene	Lin2		0.7881	0.3000	49.1	50.0	-1.7	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004051.D
 Lims ID: CCV 2
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Aug-2023 10:18:27 ALS Bottle#: 0 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV 2
 Operator ID: COULTER Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 18:10:32 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1624

First Level Reviewer: LP8K

Date: 01-Aug-2023 18:10:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	98	1357159	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	85	314511	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	95	486084	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	322220	50.0	46.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	401488	50.0	46.6	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1323707	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	460929	50.0	50.3	
9 Dichlorodifluoromethane	85	1.709	1.709	0.000	99	237482	50.0	53.3	
10 Chloromethane	50	1.895	1.895	0.000	99	365700	50.0	52.5	
11 Vinyl chloride	62	1.999	1.999	0.000	98	322219	50.0	53.9	
12 Bromomethane	94	2.310	2.310	0.000	90	213456	50.0	54.4	
13 Chloroethane	64	2.393	2.393	0.000	99	226224	50.0	50.5	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	97	516722	50.0	51.2	
15 Trichlorofluoromethane	101	2.590	2.590	0.000	97	373737	50.0	48.7	
18 Ethyl ether	59	2.797	2.797	0.000	95	330315	50.0	50.8	
19 Acrolein	56	2.911	2.911	0.000	100	686951	493.8	787.9	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	97	270557	50.0	50.3	
22 1,1,2-Trichloro-1,2,2-trifluoro	151	3.015	3.015	0.000	86	184552	50.0	52.6	
21 Acetone	43	3.015	3.015	0.000	100	552092	200.0	178.9	
24 Iodomethane	142	3.118	3.118	0.000	99	464909	50.0	51.6	
25 Carbon disulfide	76	3.180	3.180	0.000	99	887794	50.0	45.4	
27 Methyl acetate	43	3.253	3.253	0.000	99	717567	100.0	87.8	
28 3-Chloro-1-propene	41	3.274	3.274	0.000	94	514658	50.0	48.9	
29 Methylene Chloride	84	3.367	3.367	0.000	96	327114	50.0	51.4	
30 2-Methyl-2-propanol	59	3.419	3.419	0.000	99	607609	500.0	380.6	
31 Acrylonitrile	53	3.533	3.533	0.000	99	2026544	500.0	431.0	
32 Methyl tert-butyl ether	73	3.554	3.554	0.000	96	940134	50.0	52.1	
33 trans-1,2-Dichloroethene	96	3.574	3.574	0.000	96	316452	50.0	49.5	
34 Hexane	57	3.771	3.771	0.000	87	555881	50.0	52.0	
35 Vinyl acetate	43	3.875	3.875	0.000	97	1629421	100.0	101.7	
37 1,1-Dichloroethane	63	3.896	3.896	0.000	96	638071	50.0	50.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	4.289	4.289	0.000	100	1020882	200.0	165.5	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	83	357977	50.0	48.7	
43 2,2-Dichloropropane	77	4.320	4.320	0.000	86	366938	50.0	56.5	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	1173745	1200.0	987.9	
47 Chlorobromomethane	128	4.486	4.486	0.000	96	168537	50.0	50.9	
48 Tetrahydrofuran	42	4.497	4.497	0.000	90	324370	100.0	83.5	
49 Chloroform	83	4.548	4.548	0.000	94	549238	50.0	51.5	
50 1,1,1-Trichloroethane	97	4.693	4.693	0.000	99	450036	50.0	53.9	
51 Cyclohexane	56	4.756	4.756	0.000	89	637978	50.0	50.0	
52 1,1-Dichloropropene	75	4.807	4.807	0.000	97	434225	50.0	50.9	
53 Carbon tetrachloride	117	4.818	4.818	0.000	96	365739	50.0	55.5	
54 Isobutyl alcohol	41	4.818	4.818	0.000	97	463959	1250.0	973.9	
56 Benzene	78	4.963	4.963	0.000	97	1320616	50.0	50.8	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	96	463031	50.0	47.0	
59 n-Heptane	43	5.149	5.149	0.000	91	453063	50.0	40.6	
60 Trichloroethene	95	5.450	5.450	0.000	98	339320	50.0	53.7	
61 2-Pentanone	43	5.564	5.564	0.000	99	1337101	160.0	137.9	
62 Methylcyclohexane	55	5.647	5.647	0.000	96	479679	50.0	46.6	
64 1,2-Dichloropropane	63	5.668	5.668	0.000	98	386817	50.0	51.1	
65 1,4-Dioxane	88	5.699	5.699	0.000	95	76869	1000.0	749.8	
66 Dibromomethane	93	5.730	5.730	0.000	95	214596	50.0	47.8	
67 Dichlorobromomethane	83	5.854	5.854	0.000	99	401916	50.0	52.9	
69 2-Chloroethyl vinyl ether	63	6.061	6.061	0.000	90	264476	50.0	44.3	
70 cis-1,3-Dichloropropene	75	6.207	6.207	0.000	97	511549	50.0	58.0	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	95	2028846	200.0	179.5	
72 Toluene	91	6.497	6.497	0.000	99	1394138	50.0	50.3	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	95	497158	50.0	51.8	
74 Ethyl methacrylate	69	6.694	6.694	0.000	89	494053	50.0	56.3	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	92	307179	50.0	51.1	
76 Tetrachloroethene	164	6.942	6.942	0.000	96	253135	50.0	54.9	
77 1,3-Dichloropropane	76	7.004	7.004	0.000	93	535824	50.0	53.6	
78 2-Hexanone	43	7.015	7.015	0.000	94	1550420	200.0	187.2	
79 Chlorodibromomethane	129	7.191	7.191	0.000	90	307138	50.0	60.2	
80 Ethylene Dibromide	107	7.315	7.315	0.000	98	323754	50.0	54.1	
81 1-Chlorohexane	91	7.709	7.709	0.000	96	374073	40.0	43.6	
82 Chlorobenzene	112	7.751	7.751	0.000	95	913766	50.0	52.6	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	96	292032	50.0	59.5	
84 Ethylbenzene	106	7.823	7.823	0.000	98	493167	50.0	54.8	
85 m-Xylene & p-Xylene	106	7.937	7.937	0.000	99	613773	50.0	54.4	
86 o-Xylene	106	8.300	8.300	0.000	96	603473	50.0	54.9	
87 Styrene	104	8.321	8.321	0.000	96	1039714	50.0	56.0	
88 Bromoform	173	8.497	8.497	0.000	96	187306	50.0	56.1	
89 Isopropylbenzene	105	8.642	8.642	0.000	96	1524066	50.0	55.7	
91 Cyclohexanone	55	8.745	8.745	0.000	90	960004	1500.0	1448.7	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	461588	50.0	52.9	
93 Bromobenzene	156	8.963	8.963	0.000	96	356331	50.0	52.3	
94 trans-1,4-Dichloro-2-butene	53	8.973	8.973	0.000	80	137991	50.0	80.9	
95 1,2,3-Trichloropropane	110	8.994	8.994	0.000	84	147792	50.0	52.6	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	415244	50.0	54.3	
97 2-Chlorotoluene	126	9.139	9.139	0.000	96	350400	50.0	55.4	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	1249972	50.0	54.7	
99 4-Chlorotoluene	126	9.264	9.264	0.000	97	366092	50.0	53.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	1064992	50.0	53.7	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	1272354	50.0	54.2	
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	302814	50.0	52.3	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	689541	50.0	51.2	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	97	1321123	50.0	53.1	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	94	697188	50.0	55.0	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	1188406	50.0	50.3	
109 1,2-Dichlorobenzene	146	10.331	10.331	0.000	98	652926	50.0	52.7	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	85	102666	50.0	51.2	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	94	413151	50.0	52.0	
113 Hexachlorobutadiene	225	12.082	12.082	0.000	98	137815	50.0	42.1	
114 Naphthalene	128	12.217	12.217	0.000	97	1464594	50.0	46.9	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	96	383092	50.0	49.1	
127 Butadiene	54		0.000				ND	ND	
S 133 1,2-Dichloroethene, Total	1				0		100.0	98.2	
S 131 1,3-Dichloropropene, Total	1				0		100.0	109.8	
S 130 Total BTEX	1				0			265.2	
S 129 Trihalomethanes, Total	1				0		200.0	220.7	
S 128 Xylenes, Total	106				0		100.0	109.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

MV-Gas B_00141

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004051.D

Injection Date: 01-Aug-2023 10:18:27

Instrument ID: VMS_MS13

Lims ID: CCV 2

Client ID:

Operator ID: COULTER

ALS Bottle#:

0

Worklist Smp#:

13

Purge Vol: 5.000 mL

Dil. Factor:

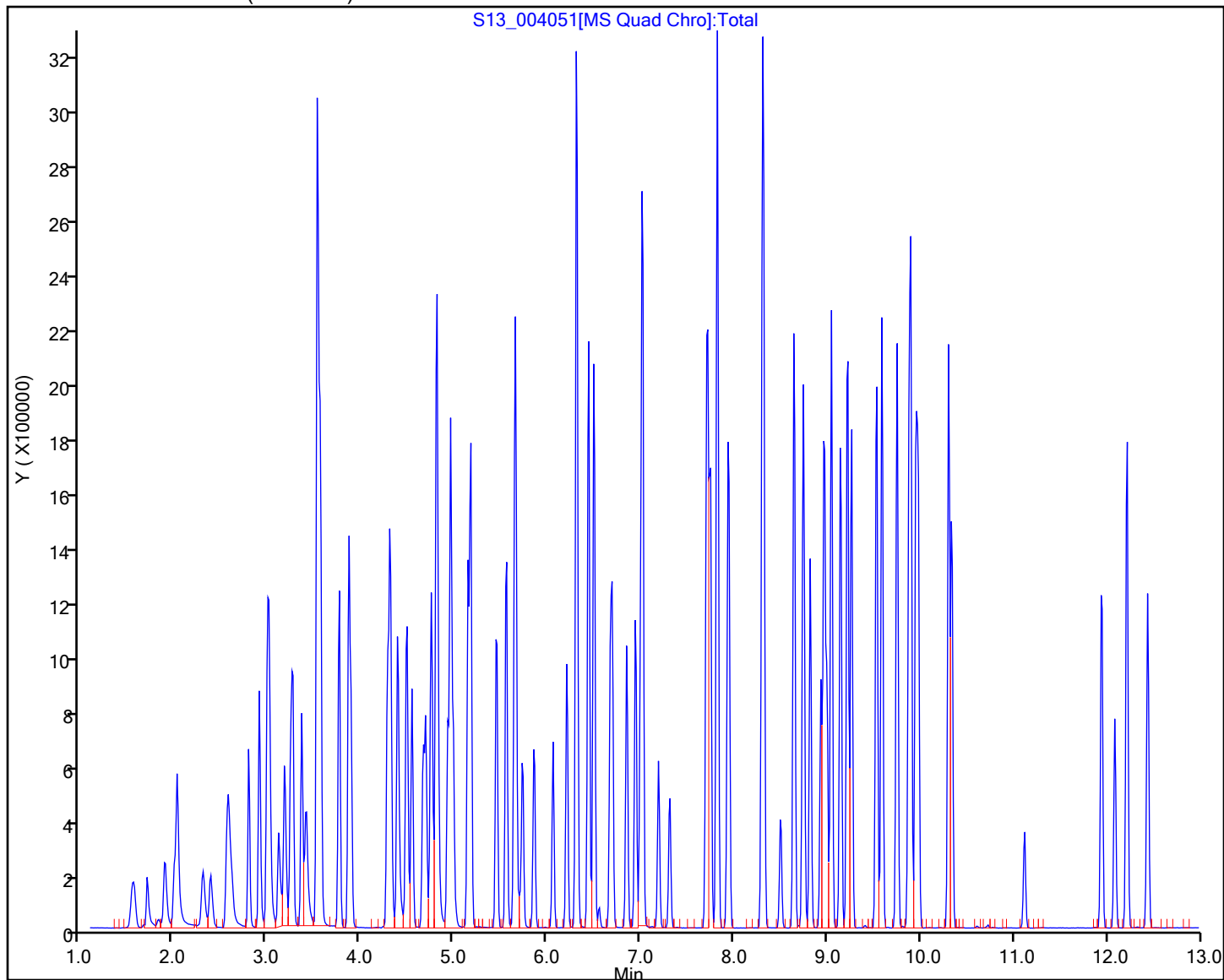
1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab Sample ID: CCV 280-621382/13 Calibration Date: 08/01/2023 10:18
Instrument ID: VMS_MS13 Calib Start Date: 07/10/2023 23:01
GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 07/11/2023 01:38
Lab File ID: MS13_004051.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2555	0.2374	0.0100	46.5	50.0	-7.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3176	0.2958	0.0100	46.6	50.0	-6.8	20.0
Toluene-d8 (Surr)	Ave	4.210	4.209	0.0100	50.0	50.0	-0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9420	0.9482	0.0100	50.3	50.0	0.7	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004051.D
 Lims ID: CCV 2
 Client ID:
 Sample Type: CCV
 Inject. Date: 01-Aug-2023 10:18:27 ALS Bottle#: 0 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV 2
 Operator ID: COULTER Instrument ID: VMS_MS13
 Sublist: chrom-AQ_VMS13_8260*sub3
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 18:10:32 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1624

First Level Reviewer: LP8K

Date: 01-Aug-2023 18:10:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	98	1357159	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	85	314511	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	95	486084	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	322220	50.0	46.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	401488	50.0	46.6	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1323707	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	460929	50.0	50.3	
9 Dichlorodifluoromethane	85	1.709	1.709	0.000	99	237482	50.0	53.3	
10 Chloromethane	50	1.895	1.895	0.000	99	365700	50.0	52.5	
11 Vinyl chloride	62	1.999	1.999	0.000	98	322219	50.0	53.9	
12 Bromomethane	94	2.310	2.310	0.000	90	213456	50.0	54.4	
13 Chloroethane	64	2.393	2.393	0.000	99	226224	50.0	50.5	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	97	516722	50.0	51.2	
15 Trichlorofluoromethane	101	2.590	2.590	0.000	97	373737	50.0	48.7	
18 Ethyl ether	59	2.797	2.797	0.000	95	330315	50.0	50.8	
19 Acrolein	56	2.911	2.911	0.000	100	686951	493.8	787.9	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	97	270557	50.0	50.3	
22 1,1,2-Trichloro-1,2,2-trifluoro	151	3.015	3.015	0.000	86	184552	50.0	52.6	
21 Acetone	43	3.015	3.015	0.000	100	552092	200.0	178.9	
24 Iodomethane	142	3.118	3.118	0.000	99	464909	50.0	51.6	
25 Carbon disulfide	76	3.180	3.180	0.000	99	887794	50.0	45.4	
27 Methyl acetate	43	3.253	3.253	0.000	99	717567	100.0	87.8	
28 3-Chloro-1-propene	41	3.274	3.274	0.000	94	514658	50.0	48.9	
29 Methylene Chloride	84	3.367	3.367	0.000	96	327114	50.0	51.4	
30 2-Methyl-2-propanol	59	3.419	3.419	0.000	99	607609	500.0	380.6	
31 Acrylonitrile	53	3.533	3.533	0.000	99	2026544	500.0	431.0	
32 Methyl tert-butyl ether	73	3.554	3.554	0.000	96	940134	50.0	52.1	
33 trans-1,2-Dichloroethene	96	3.574	3.574	0.000	96	316452	50.0	49.5	
34 Hexane	57	3.771	3.771	0.000	87	555881	50.0	52.0	
35 Vinyl acetate	43	3.875	3.875	0.000	97	1629421	100.0	101.7	
37 1,1-Dichloroethane	63	3.896	3.896	0.000	96	638071	50.0	50.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Butanone (MEK)	43	4.289	4.289	0.000	100	1020882	200.0	165.5	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	83	357977	50.0	48.7	
43 2,2-Dichloropropane	77	4.320	4.320	0.000	86	366938	50.0	56.5	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	1173745	1200.0	987.9	
47 Chlorobromomethane	128	4.486	4.486	0.000	96	168537	50.0	50.9	
48 Tetrahydrofuran	42	4.497	4.497	0.000	90	324370	100.0	83.5	
49 Chloroform	83	4.548	4.548	0.000	94	549238	50.0	51.5	
50 1,1,1-Trichloroethane	97	4.693	4.693	0.000	99	450036	50.0	53.9	
51 Cyclohexane	56	4.756	4.756	0.000	89	637978	50.0	50.0	
52 1,1-Dichloropropene	75	4.807	4.807	0.000	97	434225	50.0	50.9	
53 Carbon tetrachloride	117	4.818	4.818	0.000	96	365739	50.0	55.5	
54 Isobutyl alcohol	41	4.818	4.818	0.000	97	463959	1250.0	973.9	
56 Benzene	78	4.963	4.963	0.000	97	1320616	50.0	50.8	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	96	463031	50.0	47.0	
59 n-Heptane	43	5.149	5.149	0.000	91	453063	50.0	40.6	
60 Trichloroethene	95	5.450	5.450	0.000	98	339320	50.0	53.7	
61 2-Pentanone	43	5.564	5.564	0.000	99	1337101	160.0	137.9	
62 Methylcyclohexane	55	5.647	5.647	0.000	96	479679	50.0	46.6	
64 1,2-Dichloropropane	63	5.668	5.668	0.000	98	386817	50.0	51.1	
65 1,4-Dioxane	88	5.699	5.699	0.000	95	76869	1000.0	749.8	
66 Dibromomethane	93	5.730	5.730	0.000	95	214596	50.0	47.8	
67 Dichlorobromomethane	83	5.854	5.854	0.000	99	401916	50.0	52.9	
69 2-Chloroethyl vinyl ether	63	6.061	6.061	0.000	90	264476	50.0	44.3	
70 cis-1,3-Dichloropropene	75	6.207	6.207	0.000	97	511549	50.0	58.0	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	95	2028846	200.0	179.5	
72 Toluene	91	6.497	6.497	0.000	99	1394138	50.0	50.3	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	95	497158	50.0	51.8	
74 Ethyl methacrylate	69	6.694	6.694	0.000	89	494053	50.0	56.3	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	92	307179	50.0	51.1	
76 Tetrachloroethene	164	6.942	6.942	0.000	96	253135	50.0	54.9	
77 1,3-Dichloropropane	76	7.004	7.004	0.000	93	535824	50.0	53.6	
78 2-Hexanone	43	7.015	7.015	0.000	94	1550420	200.0	187.2	
79 Chlorodibromomethane	129	7.191	7.191	0.000	90	307138	50.0	60.2	
80 Ethylene Dibromide	107	7.315	7.315	0.000	98	323754	50.0	54.1	
81 1-Chlorohexane	91	7.709	7.709	0.000	96	374073	40.0	43.6	
82 Chlorobenzene	112	7.751	7.751	0.000	95	913766	50.0	52.6	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	96	292032	50.0	59.5	
84 Ethylbenzene	106	7.823	7.823	0.000	98	493167	50.0	54.8	
85 m-Xylene & p-Xylene	106	7.937	7.937	0.000	99	613773	50.0	54.4	
86 o-Xylene	106	8.300	8.300	0.000	96	603473	50.0	54.9	
87 Styrene	104	8.321	8.321	0.000	96	1039714	50.0	56.0	
88 Bromoform	173	8.497	8.497	0.000	96	187306	50.0	56.1	
89 Isopropylbenzene	105	8.642	8.642	0.000	96	1524066	50.0	55.7	
91 Cyclohexanone	55	8.745	8.745	0.000	90	960004	1500.0	1448.7	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	461588	50.0	52.9	
93 Bromobenzene	156	8.963	8.963	0.000	96	356331	50.0	52.3	
94 trans-1,4-Dichloro-2-butene	53	8.973	8.973	0.000	80	137991	50.0	80.9	
95 1,2,3-Trichloropropane	110	8.994	8.994	0.000	84	147792	50.0	52.6	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	415244	50.0	54.3	
97 2-Chlorotoluene	126	9.139	9.139	0.000	96	350400	50.0	55.4	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	1249972	50.0	54.7	
99 4-Chlorotoluene	126	9.264	9.264	0.000	97	366092	50.0	53.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	1064992	50.0	53.7	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	1272354	50.0	54.2	
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	302814	50.0	52.3	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	689541	50.0	51.2	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	97	1321123	50.0	53.1	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	94	697188	50.0	55.0	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	1188406	50.0	50.3	
109 1,2-Dichlorobenzene	146	10.331	10.331	0.000	98	652926	50.0	52.7	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	85	102666	50.0	51.2	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	94	413151	50.0	52.0	
113 Hexachlorobutadiene	225	12.082	12.082	0.000	98	137815	50.0	42.1	
114 Naphthalene	128	12.217	12.217	0.000	97	1464594	50.0	46.9	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	96	383092	50.0	49.1	
127 Butadiene	54		0.000				ND	ND	
S 133 1,2-Dichloroethene, Total	1				0		100.0	98.2	
S 131 1,3-Dichloropropene, Total	1				0		100.0	109.8	
S 130 Total BTEX	1				0			265.2	
S 129 Trihalomethanes, Total	1				0		200.0	220.7	
S 128 Xylenes, Total	106				0		100.0	109.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

MV-Gas B_00141

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004051.D

Injection Date: 01-Aug-2023 10:18:27

Instrument ID: VMS_MS13

Lims ID: CCV 2

Client ID:

Operator ID: COULTER

ALS Bottle#:

0

Worklist Smp#:

13

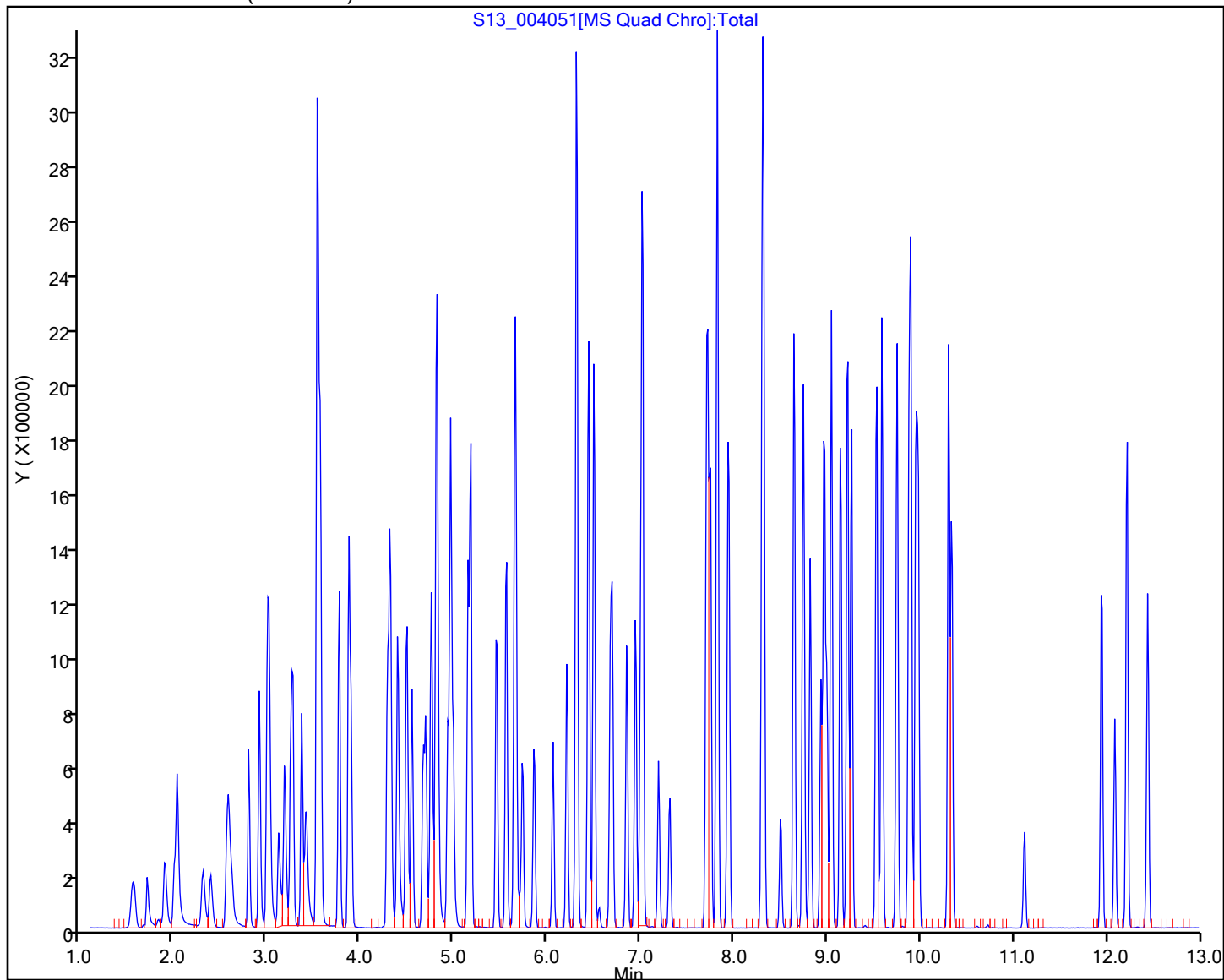
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab Sample ID: ICV 280-419367/24 Calibration Date: 06/21/2018 09:29
Instrument ID: VMS_R1 Calib Start Date: 05/14/2018 13:05
GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 05/14/2018 14:41
Lab File ID: R2091.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0795				600		

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\R2091.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 21-Jun-2018 09:29:30 ALS Bottle#: 32 Worklist Smp#: 24
 Purge Vol: 20.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: LINESJ Instrument ID: VMS_R1
 Sublist:
 Method: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 22-Jun-2018 02:31:40 Calib Date: 21-Jun-2018 09:10:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\R2090.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX0303

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.196	5.196	0.000	93	98983	250.0	250.0	
* 1 Fluorobenzene	96	7.125	7.125	0.000	99	1493806	12.5	12.5	
* 2 Chlorobenzene-d5	119	9.424	9.424	0.000	85	329974	12.5	12.5	
* 3 1,4-Dichlorobenzene-d4	152	11.186	11.186	0.000	96	402419	12.5	12.5	
\$ 5 Dibromofluoromethane (Surr	111	6.581	6.573	0.008	93	321315	10.0	10.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.860	6.860	0.000	0	224548	10.0	10.0	
\$ 7 Toluene-d8 (Surr)	98	8.357	8.357	0.000	92	1484012	10.0	9.91	
\$ 8 4-Bromofluorobenzene (Surr	95	10.270	10.269	0.001	87	431600	10.0	10.1	
22 Chlorotrifluoroethene	116	3.531	3.531	0.000	93	124766	10.0	9.71	
24 1,2-Dichloro-1,1,2,2-tetra	85	3.727	3.727	0.000	93	217550	10.0	9.07	
25 2-Chloro-1,1,1-Trifluoroet	118	3.951	3.951	0.000	34	344414	10.0	9.70	
28 Ethylene oxide	43	4.203	4.202	0.001	100	196435	1000.0	831.8	
33 Ethanol	45		4.552				ND	ND	
36 1,2-Dichloro-1,1,2-trifluo	117	4.678	4.678	0.000	86	317328	10.0	9.85	
37 1,1,1-Trifluoro-2,2-dichlo	83	4.706	4.706	0.000	94	460035	10.0	11.0	
38 Propene oxide	58		4.790				ND	ND	
42 Isopropyl alcohol	45	4.944	4.944	0.000	96	35123	100.0	88.5	
46 Acetonitrile	41	5.140	5.140	0.000	99	78989	100.0	86.1	
56 Isopropyl ether	87	5.798	5.797	0.001	91	217390	10.0	9.36	
58 2-Chloro-1,3-butadiene	53	5.896	5.895	0.001	87	474657	10.0	8.66	
59 Tert-butyl ethyl ether	59	6.072	6.072	0.000	96	490193	10.0	9.65	
60 Ethyl acetate	43	6.194	6.194	0.000	96	89987	20.0	18.3	
65 Propionitrile	54	6.244	6.244	0.000	99	101043	100.0	89.6	
66 Methacrylonitrile	41	6.366	6.365	0.001	83	395077	100.0	92.9	
75 Tert-amyl methyl ether	73	6.953	6.953	0.000	95	384178	10.0	8.92	
78 n-Butanol	56	7.154	7.153	0.001	84	45071	250.0	217.9	
81 Methyl methacrylate	100	7.555	7.555	0.000	84	45418	20.0	16.4	
88 2-Nitropropane	41	7.913	7.913	0.000	94	18365	20.0	19.0	
99 Tetrahydrothiophene	60		9.037				ND	ND	
110 cis-1,4-Dichloro-2-butene	53	10.148	10.148	0.000	0	47817	20.0	15.4	
125 1,2,3-Trimethylbenzene	105	11.215	11.215	0.000	98	1199699	10.0	8.80	
16 1,3,5-Trichlorobenzene	180	12.447	12.447	0.000	97	406314	10.0	8.16	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-568718-D_00014	Amount Added: 1.00	Units: uL
MV-Supp B_00020	Amount Added: 5.00	Units: uL
Freon_B_00008	Amount Added: 5.00	Units: uL
MV-ARCH SS A_00098	Amount Added: 0.80	Units: uL

Report Date: 22-Jun-2018 02:31:41

Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\R2091.D

Injection Date: 21-Jun-2018 09:29:30

Instrument ID: VMS_R1

Operator ID: LINESJ

Lims ID: ICV

Worklist Smp#: 24

Client ID:

Purge Vol: 20.000 mL

Dil. Factor: 1.0000

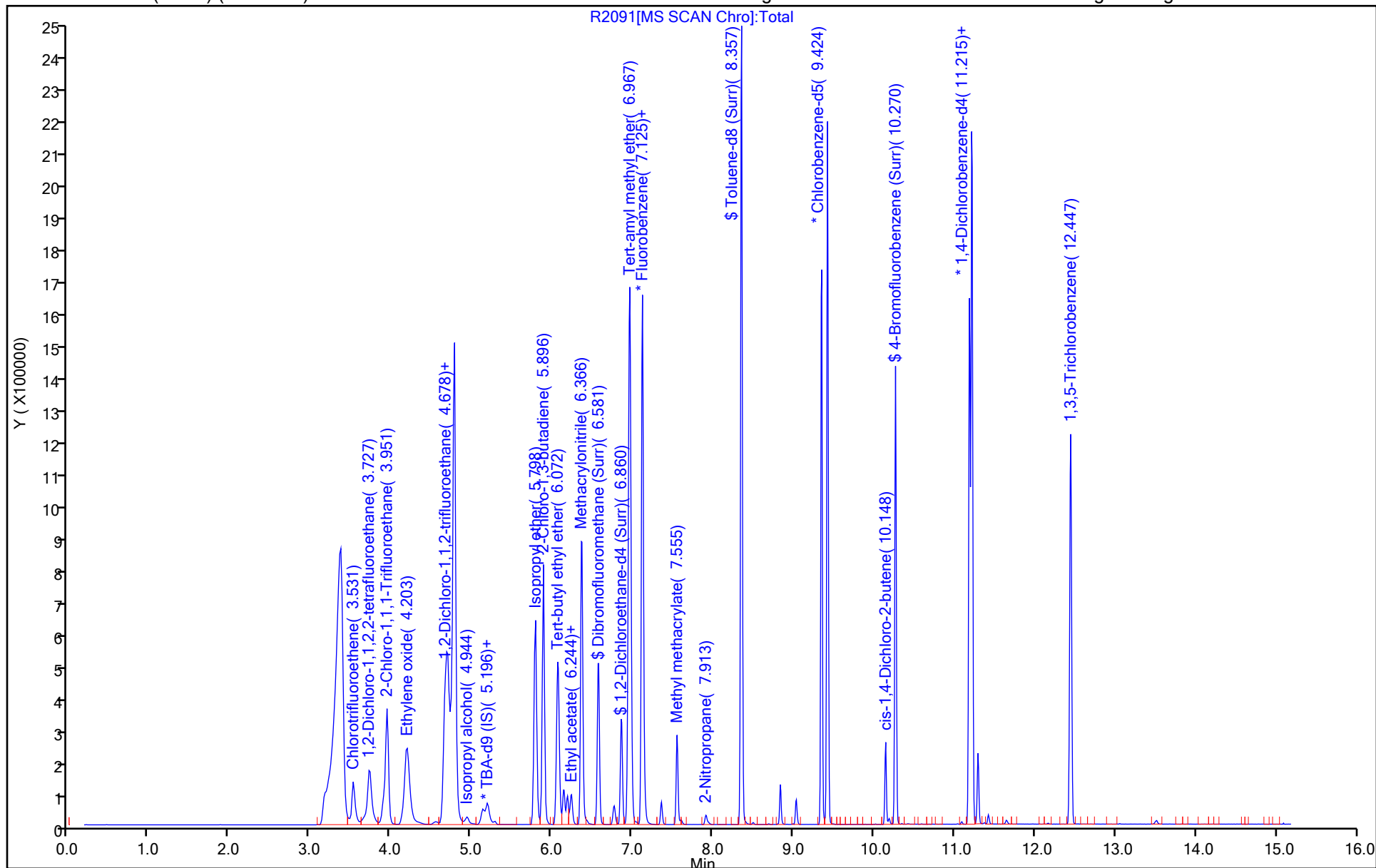
ALS Bottle#: 32

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: ICV 280-419367/24 Calibration Date: 06/21/2018 09:29
 Instrument ID: VMS_R1 Calib Start Date: 06/21/2018 07:34
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 06/21/2018 09:10
 Lab File ID: R2091.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Isopropyl alcohol	Ave	1.002	0.8871	0.0100	88.5	100	-11.5	30.0
Acetonitrile	Ave	0.0077	0.0066*	0.0100	86.1	100	-13.9	30.0
Isopropyl ether	Lin2		0.1819	0.0100	9.36	10.0	-6.4	30.0
2-Chloro-1,3-butadiene	Lin2		0.3972	0.0100	8.66	10.0	-13.4	30.0
Tert-butyl ethyl ether	Ave	0.4250	0.4102	0.0100	9.65	10.0	-3.5	30.0
Ethyl acetate	Ave	0.0411	0.0377	0.0100	18.3	20.0	-8.3	30.0
Propionitrile	Ave	0.0094	0.0085*	0.0100	89.6	100	-10.4	30.0
Methacrylonitrile	Ave	0.0356	0.0331	0.0100	92.9	100	-7.1	30.0
Tert-amyl methyl ether	Lin2		0.3215	0.0100	8.92	10.0	-10.8	30.0
n-Butanol	Ave	0.5223	0.4553	0.0100	218	250	-12.8	30.0
Methyl methacrylate	Lin2		0.0190	0.0100	16.4	20.0	-17.9	30.0
2-Nitropropane	Lin1		0.0077*	0.0100	19.0	20.0	-5.2	30.0
cis-1,4-Dichloro-2-butene	Lin2		0.0743	0.0100	15.4	20.0	-23.2	30.0
1,2,3-Trimethylbenzene	Ave	4.233	3.727	0.0100	8.80	10.0	-12.0	30.0
1,3,5-Trichlorobenzene	Ave	1.546	1.262	0.0100	8.16	10.0	-18.4	30.0
Dibromofluoromethane (Surr)	Lin1		0.2689	0.0100	10.1	10.0	1.1	30.0
1,2-Dichloroethane-d4 (Surr)	Lin1		0.1879	0.0100	10.0	10.0	-0.0	30.0
Toluene-d8 (Surr)	Lin1		5.622	0.0100	9.91	10.0	-0.9	30.0
4-Bromofluorobenzene (Surr)	Lin1		1.341	0.0100	10.1	10.0	1.4	30.0

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\R2091.D

Lims ID: ICV

Client ID:

Sample Type: ICV

Inject. Date: 21-Jun-2018 09:29:30

ALS Bottle#: 32

Worklist Smp#: 24

Purge Vol: 20.000 mL

Dil. Factor: 1.0000

Sample Info: ICV

Operator ID: LINESJ

Instrument ID: VMS_R1

Sublist:

Method: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\AQ_VMSR1_8260.m

Limit Group: MSV - 8260B Water and Solid

Last Update: 22-Jun-2018 02:31:40

Calib Date: 21-Jun-2018 09:10:30

Integrator: RTE

ID Type: Deconvolution ID

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\R2090.D

Column 1 : DB-624 (60.25) (0.25 mm)

Det: MS SCAN

Process Host: CTX0303

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 150 TBA-d9 (IS)	65	5.196	5.196	0.000	93	98983	250.0	250.0	
* 1 Fluorobenzene	96	7.125	7.125	0.000	99	1493806	12.5	12.5	
* 2 Chlorobenzene-d5	119	9.424	9.424	0.000	85	329974	12.5	12.5	
* 3 1,4-Dichlorobenzene-d4	152	11.186	11.186	0.000	96	402419	12.5	12.5	
\$ 5 Dibromofluoromethane (Surr	111	6.581	6.573	0.008	93	321315	10.0	10.1	
\$ 6 1,2-Dichloroethane-d4 (Sur	65	6.860	6.860	0.000	0	224548	10.0	10.0	
\$ 7 Toluene-d8 (Surr)	98	8.357	8.357	0.000	92	1484012	10.0	9.91	
\$ 8 4-Bromofluorobenzene (Surr	95	10.270	10.269	0.001	87	431600	10.0	10.1	
22 Chlorotrifluoroethene	116	3.531	3.531	0.000	93	124766	10.0	9.71	
24 1,2-Dichloro-1,1,2,2-tetra	85	3.727	3.727	0.000	93	217550	10.0	9.07	
25 2-Chloro-1,1,1-Trifluoroet	118	3.951	3.951	0.000	34	344414	10.0	9.70	
28 Ethylene oxide	43	4.203	4.202	0.001	100	196435	1000.0	831.8	
33 Ethanol	45		4.552				ND	ND	
36 1,2-Dichloro-1,1,2-trifluo	117	4.678	4.678	0.000	86	317328	10.0	9.85	
37 1,1,1-Trifluoro-2,2-dichlo	83	4.706	4.706	0.000	94	460035	10.0	11.0	
38 Propene oxide	58		4.790				ND	ND	
42 Isopropyl alcohol	45	4.944	4.944	0.000	96	35123	100.0	88.5	
46 Acetonitrile	41	5.140	5.140	0.000	99	78989	100.0	86.1	
56 Isopropyl ether	87	5.798	5.797	0.001	91	217390	10.0	9.36	
58 2-Chloro-1,3-butadiene	53	5.896	5.895	0.001	87	474657	10.0	8.66	
59 Tert-butyl ethyl ether	59	6.072	6.072	0.000	96	490193	10.0	9.65	
60 Ethyl acetate	43	6.194	6.194	0.000	96	89987	20.0	18.3	
65 Propionitrile	54	6.244	6.244	0.000	99	101043	100.0	89.6	
66 Methacrylonitrile	41	6.366	6.365	0.001	83	395077	100.0	92.9	
75 Tert-amyl methyl ether	73	6.953	6.953	0.000	95	384178	10.0	8.92	
78 n-Butanol	56	7.154	7.153	0.001	84	45071	250.0	217.9	
81 Methyl methacrylate	100	7.555	7.555	0.000	84	45418	20.0	16.4	
88 2-Nitropropane	41	7.913	7.913	0.000	94	18365	20.0	19.0	
99 Tetrahydrothiophene	60		9.037				ND	ND	
110 cis-1,4-Dichloro-2-butene	53	10.148	10.148	0.000	0	47817	20.0	15.4	
125 1,2,3-Trimethylbenzene	105	11.215	11.215	0.000	98	1199699	10.0	8.80	
16 1,3,5-Trichlorobenzene	180	12.447	12.447	0.000	97	406314	10.0	8.16	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-568718-D_00014	Amount Added: 1.00	Units: uL
MV-Supp B_00020	Amount Added: 5.00	Units: uL
Freon_B_00008	Amount Added: 5.00	Units: uL
MV-ARCH SS A_00098	Amount Added: 0.80	Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\R2091.D

Injection Date: 21-Jun-2018 09:29:30

Instrument ID: VMS_R1

Operator ID: LINESJ

Lims ID: ICV

Worklist Smp#: 24

Client ID:

Purge Vol: 20.000 mL

Dil. Factor: 1.0000

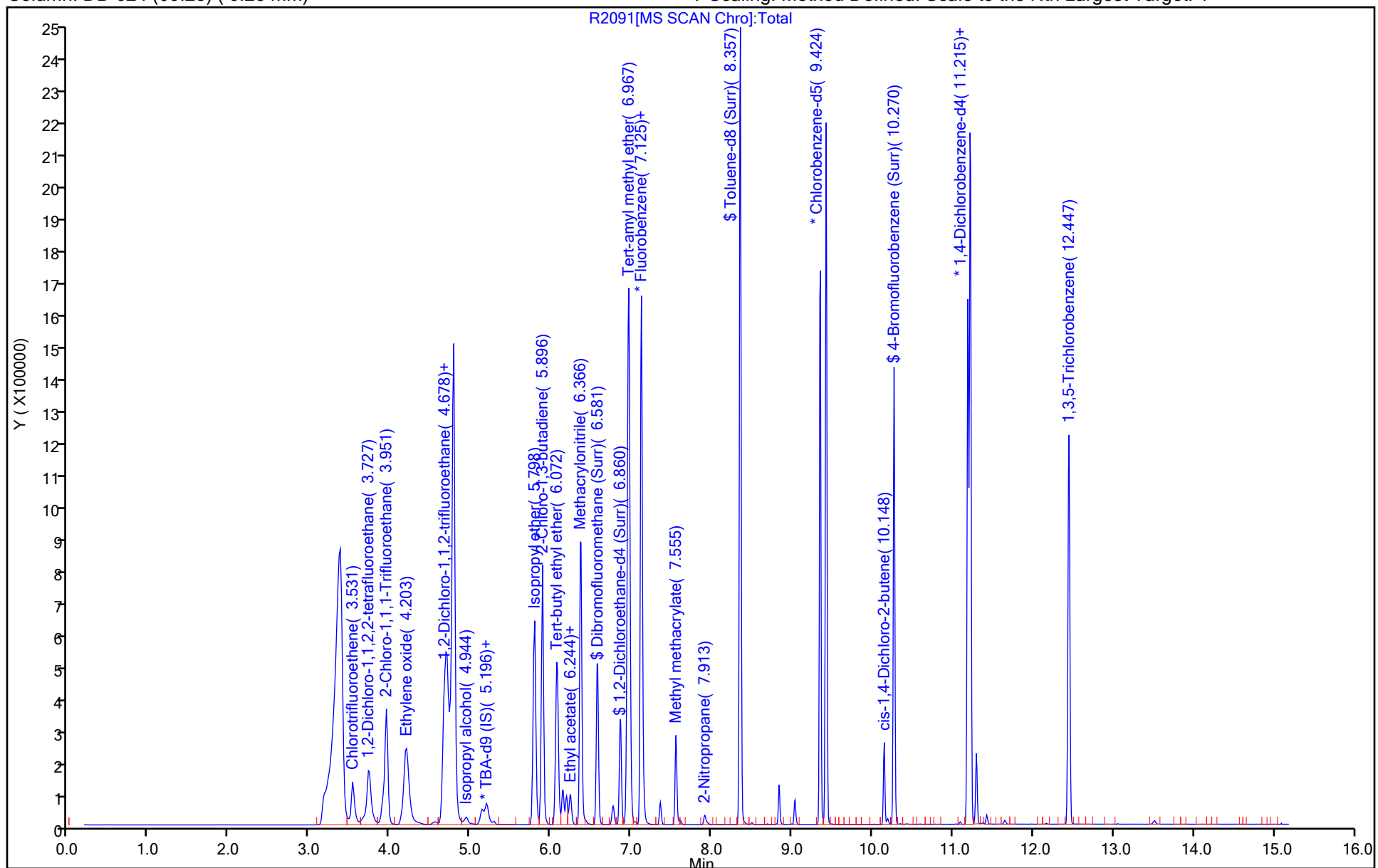
ALS Bottle#: 32

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: ICV 280-570124/22 Calibration Date: 03/29/2022 20:24
 Instrument ID: VMS_R1 Calib Start Date: 03/08/2022 16:39
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 03/08/2022 19:30
 Lab File ID: R3117.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2663	0.2529	0.0100	47.5	50.0	-5.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3060	0.2858	0.0100	46.7	50.0	-6.6	30.0
Toluene-d8 (Surr)	Ave	3.990	3.921	0.0100	49.1	50.0	-1.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9239	0.9448	0.0100	51.1	50.0	2.3	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3117.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 29-Mar-2022 20:24:30 ALS Bottle#: 10 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0109642-022
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 21:10:41 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 21:10:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2306045	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	555734	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	926372	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.399	4.403	-0.004	93	583194	50.0	47.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.662	4.658	0.004	0	659039	50.0	46.7	
\$ 6 Toluene-d8 (Surr)	98	6.143	6.142	0.000	93	2178961	50.0	49.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.500	8.500	0.000	88	875241	50.0	51.1	
13 Ethylene oxide	43	2.094	2.097	-0.003	100	2427729	5000.0	5128.2	
18 Ethanol	45	2.525	2.525	0.000	100	284493	3000.0	2571.6	
20 Propene oxide	58	2.656	2.656	0.000	96	10313429	5000.0	5888.2	
25 Isopropyl alcohol	45	2.907	2.903	0.004	98	283682	500.0	480.7	
28 Acetonitrile	41	3.020	3.016	0.004	99	683023	500.0	497.4	
41 Isopropyl ether	87	3.657	3.657	0.000	93	431236	50.0	53.5	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	92	778336	50.0	51.4	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	1515973	50.0	54.2	
46 Ethyl acetate	43	4.051	4.050	0.001	99	971388	100.0	111.0	
49 Propionitrile	54	4.081	4.080	0.001	99	816037	500.0	494.0	
51 Methacrylonitrile	41	4.189	4.189	0.000	92	3199450	500.0	490.7	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	99	1353170	50.0	53.0	
66 n-Butanol	56	5.048	5.048	0.000	88	340336	1250.0	1110.2	
71 Methyl methacrylate	100	5.382	5.381	0.001	91	303323	100.0	107.5	
75 2-Nitropropane	41	5.734	5.734	0.000	99	257610	100.0	102.6	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	92	69128	100.0	38.9	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	376465	100.0	100.2	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	2138851	50.0	50.3	
119 1,3,5-Trichlorobenzene	180	10.971	10.970	0.001	97	753401	50.0	50.2	
166 Ethyl acrylate	55		0.000				ND	ND	

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

MV-Supp B_00048	Amount Added: 50.00	Units: uL	
mv-IS_SS_00036	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 29-Mar-2022 21:10:56

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3117.D

Injection Date: 29-Mar-2022 20:24:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: ICV

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

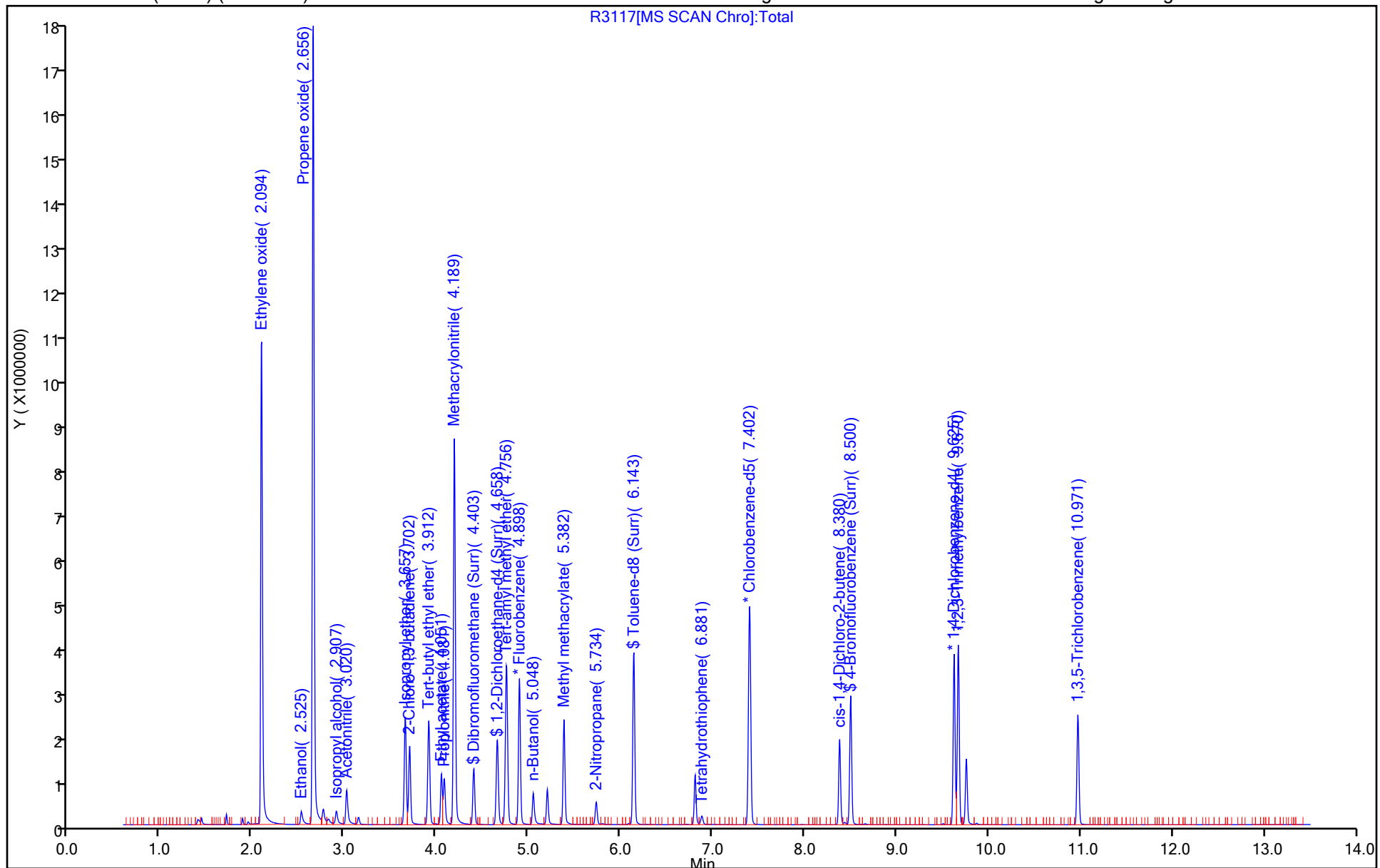
ALS Bottle#: 10

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: ICV 280-570124/22 Calibration Date: 03/29/2022 20:24
 Instrument ID: VMS_R1 Calib Start Date: 03/29/2022 17:08
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 03/29/2022 19:40
 Lab File ID: R3117.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin2		0.0021*	0.0100	2570	3000	-14.3	30.0
Isopropyl alcohol	Ave	0.0128	0.0123	0.0100	481	500	-3.9	30.0
Acetonitrile	Ave	0.0298	0.0296	0.0100	497	500	-0.5	30.0
Isopropyl ether	Ave	0.1747	0.1870	0.0100	53.5	50.0	7.1	30.0
Chloroprene	Ave	0.3282	0.3375	0.0100	51.4	50.0	2.8	30.0
Tert-butyl ethyl ether	Ave	0.6061	0.6574	0.0100	54.2	50.0	8.5	30.0
Ethyl acetate	Ave	0.1897	0.2106	0.0100	111	100	11.0	30.0
Propionitrile	Ave	0.0358	0.0354	0.0100	494	500	-1.2	30.0
Methacrylonitrile	Ave	0.1414	0.1387	0.0100	491	500	-1.9	30.0
Tert-amyl methyl ether	Ave	0.5540	0.5868	0.0100	53.0	50.0	5.9	30.0
n-Butanol	Lin1		0.0059*	0.0100	1110	1250	-11.2	30.0
Methyl methacrylate	Ave	0.0612	0.0658	0.0100	108	100	7.5	30.0
2-Nitropropane	Ave	0.0544	0.0559	0.0100	103	100	2.6	30.0
cis-1,4-Dichloro-2-butene	Lin1		0.2032	0.0100	100	100	0.2	30.0
1,2,3-Trimethylbenzene	Ave	2.297	2.309	0.0100	50.3	50.0	0.5	30.0
1,3,5-Trichlorobenzene	Ave	0.8098	0.8133	0.0100	50.2	50.0	0.4	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3117.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 29-Mar-2022 20:24:30 ALS Bottle#: 10 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0109642-022
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 21:10:41 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 21:10:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2306045	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	555734	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	926372	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.399	4.403	-0.004	93	583194	50.0	47.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.662	4.658	0.004	0	659039	50.0	46.7	
\$ 6 Toluene-d8 (Surr)	98	6.143	6.142	0.000	93	2178961	50.0	49.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.500	8.500	0.000	88	875241	50.0	51.1	
13 Ethylene oxide	43	2.094	2.097	-0.003	100	2427729	5000.0	5128.2	
18 Ethanol	45	2.525	2.525	0.000	100	284493	3000.0	2571.6	
20 Propene oxide	58	2.656	2.656	0.000	96	10313429	5000.0	5888.2	
25 Isopropyl alcohol	45	2.907	2.903	0.004	98	283682	500.0	480.7	
28 Acetonitrile	41	3.020	3.016	0.004	99	683023	500.0	497.4	
41 Isopropyl ether	87	3.657	3.657	0.000	93	431236	50.0	53.5	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	92	778336	50.0	51.4	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	1515973	50.0	54.2	
46 Ethyl acetate	43	4.051	4.050	0.001	99	971388	100.0	111.0	
49 Propionitrile	54	4.081	4.080	0.001	99	816037	500.0	494.0	
51 Methacrylonitrile	41	4.189	4.189	0.000	92	3199450	500.0	490.7	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	99	1353170	50.0	53.0	
66 n-Butanol	56	5.048	5.048	0.000	88	340336	1250.0	1110.2	
71 Methyl methacrylate	100	5.382	5.381	0.001	91	303323	100.0	107.5	
75 2-Nitropropane	41	5.734	5.734	0.000	99	257610	100.0	102.6	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	92	69128	100.0	38.9	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	376465	100.0	100.2	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	2138851	50.0	50.3	
119 1,3,5-Trichlorobenzene	180	10.971	10.970	0.001	97	753401	50.0	50.2	
166 Ethyl acrylate	55		0.000				ND	ND	

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

MV-Supp B_00048

Amount Added: 50.00

Units: uL

mv-IS_SS_00036

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 29-Mar-2022 21:10:56

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3117.D

Injection Date: 29-Mar-2022 20:24:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: ICV

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

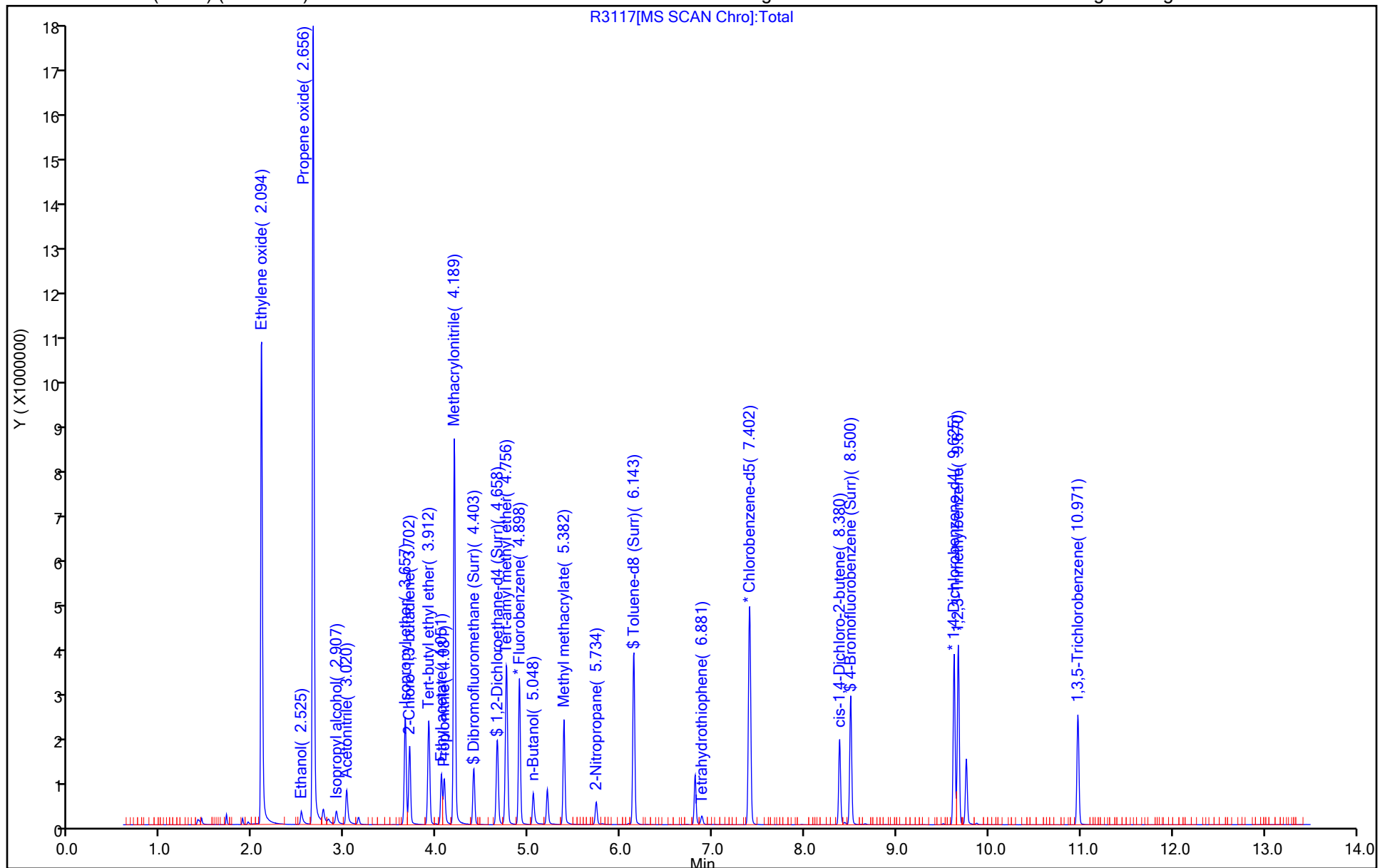
ALS Bottle#: 10

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Lab Sample ID: ICV 280-621220/22 Calibration Date: 07/30/2023 19:40

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6579.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2284	0.1000	47.6	50.0	-4.8	30.0
Chloromethane	Lin1		0.3590	0.1000	47.2	50.0	-5.6	30.0
Vinyl chloride	Lin1		0.2951	0.0100	48.3	50.0	-3.4	30.0
Bromomethane	Ave	0.1999	0.1796	0.0100	44.9	50.0	-10.2	30.0
Chloroethane	Ave	0.1971	0.1829	0.0100	46.4	50.0	-7.2	30.0
Dichlorofluoromethane	Ave	0.4638	0.4835	0.0100	52.1	50.0	4.2	30.0
Trichlorofluoromethane	Ave	0.3350	0.3188	0.0100	47.6	50.0	-4.8	30.0
Ethyl ether	Ave	0.2097	0.2118	0.0100	50.5	50.0	1.0	30.0
Acrolein	Ave	0.0352	0.0357	0.0010	501	494	1.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1386	0.1477	0.0500	53.3	50.0	6.6	30.0
1,1-Dichloroethene	Ave	0.1930	0.2029	0.0600	52.6	50.0	5.2	30.0
Acetone	Lin2		0.0805	0.0100	185	200	-7.4	30.0
Iodomethane	Ave	0.2695	0.2804	0.0100	52.0	50.0	4.0	30.0
Carbon disulfide	Ave	0.7639	0.7154	0.1000	46.8	50.0	-6.3	30.0
Methyl acetate	Ave	0.2046	0.1979	0.0100	96.7	100	-3.3	30.0
Allyl chloride	Ave	0.4777	0.4425	0.0100	46.3	50.0	-7.4	30.0
Methylene Chloride	Ave	0.2612	0.2530	0.0100	48.4	50.0	-3.1	30.0
2-Methyl-2-propanol	Ave	0.0224	0.0212	0.0010	473	500	-5.3	30.0
Acrylonitrile	Ave	0.1004	0.1034	0.0100	515	500	3.0	30.0
Methyl tert-butyl ether	Ave	0.6343	0.6638	0.1000	52.3	50.0	4.6	30.0
trans-1,2-Dichloroethene	Ave	0.2299	0.2232	0.1000	48.6	50.0	-2.9	30.0
Hexane	Ave	1.299	1.356	0.0100	52.2	50.0	4.3	30.0
Vinyl acetate	Lin2		0.4660	0.0100	85.4	100	-14.6	30.0
1,1-Dichloroethane	Ave	0.4818	0.4815	0.1000	50.0	50.0	-0.0	30.0
2-Butanone (MEK)	Ave	0.1256	0.1239	0.0100	197	200	-1.3	30.0
cis-1,2-Dichloroethene	Ave	0.2532	0.2546	0.1000	50.3	50.0	0.5	30.0
2,2-Dichloropropane	Ave	0.3403	0.3298	0.0100	48.5	50.0	-3.1	30.0
sec-Butyl Alcohol	Lin2		0.0205	0.0100	1090	1200	-9.6	30.0
Chlorobromomethane	Ave	0.1065	0.1094	0.0500	51.4	50.0	2.7	30.0
Tetrahydrofuran	Ave	0.0820	0.0853	0.0010	104	100	4.0	30.0
Chloroform	Ave	0.4272	0.4291	0.2000	50.2	50.0	0.4	30.0
1,1,1-Trichloroethane	Ave	0.3347	0.3480	0.0500	52.0	50.0	4.0	30.0
Cyclohexane	Ave	0.4171	0.4600	0.0100	55.1	50.0	10.3	30.0
1,1-Dichloropropene	Ave	0.3382	0.3470	0.0100	51.3	50.0	2.6	30.0
Carbon tetrachloride	Ave	0.2863	0.2939	0.1000	51.3	50.0	2.7	30.0
Isobutyl alcohol	Lin2		0.0088	0.0010	1150	1250	-8.2	30.0
Benzene	Ave	1.001	1.021	0.2000	51.0	50.0	2.0	30.0
1,2-Dichloroethane	Ave	0.3428	0.3439	0.0700	50.2	50.0	0.3	30.0
n-Heptane	Ave	0.2979	0.3145		52.8	50.0	5.6	
Trichloroethene	Ave	0.9648	1.007	0.2000	52.2	50.0	4.4	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Lab Sample ID: ICV 280-621220/22 Calibration Date: 07/30/2023 19:40

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6579.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Lin2		0.2008	0.0010	160	160	-0.2	30.0
Methylcyclohexane	Ave	0.3006	0.3286	0.0500	54.7	50.0	9.3	30.0
1,2-Dichloropropane	Ave	0.2791	0.2956	0.1000	53.0	50.0	5.9	30.0
1,4-Dioxane	Lin2		0.0029	0.0010	838	1000	-16.2	30.0
Dibromomethane	Ave	0.1501	0.1527	0.0100	50.9	50.0	1.8	30.0
Dichlorobromomethane	Ave	0.3282	0.3422	0.2000	52.1	50.0	4.3	30.0
2-Chloroethyl vinyl ether	Lin2		0.1660	0.0100	49.7	50.0	-0.6	30.0
cis-1,3-Dichloropropene	Ave	1.645	1.632	0.2000	49.6	50.0	-0.8	30.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.2737	0.0300	194	200	-2.8	30.0
Toluene	Ave	1.036	1.034	0.3000	49.9	50.0	-0.3	30.0
trans-1,3-Dichloropropene	Ave	0.3664	0.3916	0.2000	53.4	50.0	6.9	30.0
Ethyl methacrylate	Lin2		1.294	0.0100	50.9	50.0	1.7	30.0
1,1,2-Trichloroethane	Ave	0.2049	0.2156	0.1000	52.6	50.0	5.2	30.0
Tetrachloroethene	Ave	0.6574	0.6955	0.1000	52.9	50.0	5.8	30.0
1,3-Dichloropropane	Ave	1.559	1.674	0.0100	53.7	50.0	7.4	30.0
2-Hexanone	Lin2		0.7503	0.0100	199	200	-0.5	30.0
Chlorodibromomethane	Ave	0.9293	0.9827	0.1000	52.9	50.0	5.7	30.0
1,2-Dibromoethane	Ave	0.8462	0.8879	0.1000	52.5	50.0	4.9	30.0
1-Chlorohexane	Ave	1.257	1.328	0.0100	42.2	40.0	5.6	30.0
Chlorobenzene	Ave	2.616	2.648	0.3000	50.6	50.0	1.2	30.0
1,1,1,2-Tetrachloroethane	Ave	0.8832	0.9239	0.0100	52.3	50.0	4.6	30.0
Ethylbenzene	Ave	1.381	1.431	0.3000	51.8	50.0	3.6	30.0
m-Xylene & p-Xylene	Ave	1.676	1.741	0.1000	52.0	50.0	3.9	30.0
o-Xylene	Ave	1.621	1.728	0.2000	53.3	50.0	6.6	30.0
Styrene	Ave	2.688	2.996	0.2000	55.7	50.0	11.5	30.0
Bromoform	Ave	0.6012	0.6139	0.1000	51.1	50.0	2.1	30.0
Isopropylbenzene	Ave	2.537	2.723	0.3000	53.7	50.0	7.3	30.0
Cyclohexanone	Lin2		0.0478	0.0010	1300	1500	-13.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7448	0.7348	0.3000	49.3	50.0	-1.3	30.0
Bromobenzene	Ave	0.6352	0.6503	0.0100	51.2	50.0	2.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2253	0.2354	0.0100	52.2	50.0	4.5	30.0
1,2,3-Trichloropropane	Lin2		0.2064	0.0100	50.1	50.0	0.1	30.0
N-Propylbenzene	Ave	0.7003	0.7444	0.0100	53.1	50.0	6.3	30.0
2-Chlorotoluene	Ave	0.6301	0.6518	0.0100	51.7	50.0	3.4	30.0
1,3,5-Trimethylbenzene	Ave	2.108	2.224	0.0100	52.8	50.0	5.5	30.0
4-Chlorotoluene	Ave	0.6533	0.6668	0.0100	51.0	50.0	2.1	30.0
tert-Butylbenzene	Ave	1.721	1.826	0.0100	53.1	50.0	6.1	30.0
1,2,4-Trimethylbenzene	Lin2		2.278	0.3000	49.0	50.0	-2.0	30.0
sec-Butylbenzene	Ave	0.4847	0.5366	0.0100	55.4	50.0	10.7	30.0
1,3-Dichlorobenzene	Ave	1.203	1.204	0.5000	50.0	50.0	0.0	30.0
4-Isopropyltoluene	Lin2		2.255	0.0100	48.9	50.0	-2.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: ICV 280-621220/22 Calibration Date: 07/30/2023 19:40
 Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19
 Lab File ID: R_6579.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Ave	1.270	1.253	0.5000	49.3	50.0	-1.4	30.0
n-Butylbenzene	Lin2		2.140	0.0100	49.8	50.0	-0.3	30.0
1,2-Dichlorobenzene	Ave	1.129	1.163	0.5000	51.5	50.0	3.0	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1172	0.1030	0.0100	44.0	50.0	-12.1	30.0
1,2,4-Trichlorobenzene	Ave	0.5608	0.5266	0.2000	47.0	50.0	-6.1	30.0
Hexachlorobutadiene	Ave	0.2644	0.2496	0.0100	47.2	50.0	-5.6	30.0
Naphthalene	Lin1		1.143	0.0100	36.8	50.0	-26.3	30.0
1,2,3-Trichlorobenzene	Qua		0.2635*	0.3000	33.3	50.0	-33.3*	30.0
Dibromofluoromethane (Surr)	Ave	0.2627	0.2630	0.0100	50.0	50.0	0.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3141	0.3138	0.0100	50.0	50.0	-0.0	30.0
Toluene-d8 (Surr)	Ave	4.307	4.310	0.0100	50.0	50.0	0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9681	0.9772	0.0100	50.5	50.0	0.9	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6579.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 30-Jul-2023 19:40:30 ALS Bottle#: 12 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icv
 Misc. Info.: 280-0124001-022
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 09:03:57 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 06:14:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	99	2172322	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	541412	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	96	871566	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	571213	50.0	50.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.579	4.579	0.000	0	681637	50.0	50.0	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2333625	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.418	-0.004	84	851701	50.0	50.5	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	496124	50.0	47.6	
10 Chloromethane	50	1.711	1.715	-0.004	99	779788	50.0	47.2	
11 Vinyl chloride	62	1.801	1.805	-0.004	98	641049	50.0	48.3	
13 Bromomethane	94	2.067	2.071	-0.004	91	390197	50.0	44.9	
14 Chloroethane	64	2.154	2.157	-0.003	100	397373	50.0	46.4	
15 Dichlorofluoromethane	67	2.311	2.315	-0.004	97	1050234	50.0	52.1	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	99	692594	50.0	47.6	
18 Ethyl ether	59	2.547	2.547	0.000	96	460200	50.0	50.5	
20 Acrolein	56	2.648	2.652	-0.004	99	765040	493.8	500.7	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.723	2.723	0.000	96	320900	50.0	53.3	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	95	440781	50.0	52.6	
23 Acetone	43	2.746	2.746	0.000	99	699535	200.0	185.2	
25 Iodomethane	142	2.843	2.843	0.000	99	609015	50.0	52.0	
26 Carbon disulfide	76	2.900	2.903	-0.003	100	1554136	50.0	46.8	
28 Methyl acetate	43	2.963	2.967	-0.004	99	859655	100.0	96.7	
29 3-Chloro-1-propene	41	2.982	2.986	-0.004	91	961319	50.0	46.3	
30 Methylene Chloride	84	3.076	3.076	0.000	99	549550	50.0	48.4	
31 2-Methyl-2-propanol	59	3.121	3.125	-0.004	96	460705	500.0	473.3	
32 Acrylonitrile	53	3.230	3.233	-0.003	98	2246234	500.0	515.0	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	1442051	50.0	52.3	
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	94	484934	50.0	48.6	
35 Hexane	57	3.454	3.454	0.000	97	734021	50.0	52.2	
37 Vinyl acetate	43	3.556	3.559	-0.003	97	2024628	100.0	85.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	1046067	50.0	50.0	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1076368	200.0	197.3	
45 cis-1,2-Dichloroethene	96	3.975	3.975	0.000	85	553022	50.0	50.3	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	92	716393	50.0	48.5	
48 sec-Butyl Alcohol	45	4.065	4.065	0.000	99	1070135	1200.0	1085.1	
50 Chlorobromomethane	128	4.148	4.148	0.000	93	237666	50.0	51.4	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	91	370411	100.0	104.0	
52 Chloroform	83	4.204	4.208	-0.004	95	932155	50.0	50.2	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	98	755912	50.0	52.0	
54 Cyclohexane	56	4.399	4.403	-0.004	94	999215	50.0	55.1	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	97	753862	50.0	51.3	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	97	638478	50.0	51.3	
57 Isobutyl alcohol	41	4.478	4.478	0.000	94	479333	1250.0	1147.9	
58 Benzene	78	4.602	4.601	0.001	97	2217679	50.0	51.0	
59 1,2-Dichloroethane	62	4.631	4.635	-0.004	97	747168	50.0	50.2	
63 n-Heptane	43	4.789	4.793	-0.004	96	683130	50.0	52.8	
65 Trichloroethene	95	5.089	5.089	0.000	96	545440	50.0	52.2	
66 2-Pentanone	43	5.194	5.194	0.000	98	1395564	160.0	159.6	
67 Methylcyclohexane	55	5.276	5.280	-0.004	94	713735	50.0	54.7	
68 1,2-Dichloropropane	63	5.288	5.291	-0.003	96	642211	50.0	53.0	
70 1,4-Dioxane	88	5.336	5.344	-0.008	98	126289	1000.0	837.9	
71 Dibromomethane	93	5.359	5.362	-0.003	91	331743	50.0	50.9	
72 Dichlorobromomethane	83	5.482	5.486	-0.004	98	743343	50.0	52.1	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	360599	50.0	49.7	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	93	883592	50.0	49.6	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	99	2378264	200.0	194.4	
77 Toluene	91	6.112	6.112	0.000	97	2245144	50.0	49.9	
78 trans-1,3-Dichloropropene	75	6.292	6.296	-0.004	93	850763	50.0	53.4	
79 Ethyl methacrylate	69	6.318	6.322	-0.004	93	700684	50.0	50.9	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	468409	50.0	52.6	
81 Tetrachloroethene	164	6.551	6.555	-0.004	93	376560	50.0	52.9	
82 1,3-Dichloropropane	76	6.607	6.611	-0.004	95	906087	50.0	53.7	
83 2-Hexanone	43	6.633	6.633	0.000	98	1624778	200.0	199.1	
84 Chlorodibromomethane	129	6.798	6.802	-0.004	91	532026	50.0	52.9	
86 Ethylene Dibromide	107	6.914	6.918	-0.004	97	480738	50.0	52.5	
87 1-Chlorohexane	91	7.308	7.312	-0.004	92	575085	40.0	42.2	
88 Chlorobenzene	112	7.346	7.349	-0.003	93	1433887	50.0	50.6	
89 1,1,1,2-Tetrachloroethane	131	7.420	7.420	0.000	96	500215	50.0	52.3	
90 Ethylbenzene	106	7.424	7.424	0.000	99	774893	50.0	51.8	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	942616	50.0	52.0	
92 o-Xylene	106	7.900	7.904	-0.004	98	935469	50.0	53.3	
93 Styrene	104	7.919	7.919	0.000	96	1622212	50.0	55.7	
94 Bromoform	173	8.099	8.099	0.000	94	332381	50.0	51.1	
95 Isopropylbenzene	105	8.241	8.241	0.000	96	2373024	50.0	53.7	
97 Cyclohexanone	55	8.335	8.339	-0.004	96	776047	1500.0	1297.4	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.534	-0.004	94	640414	50.0	49.3	
99 Bromobenzene	156	8.556	8.560	-0.004	97	566822	50.0	51.2	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.575	-0.004	75	205193	50.0	52.2	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	86	179914	50.0	50.1	
102 N-Propylbenzene	120	8.639	8.643	-0.003	100	648764	50.0	53.1	
103 2-Chlorotoluene	126	8.736	8.732	0.004	95	568117	50.0	51.7	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	95	1938280	50.0	52.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.852	8.852	0.000	99	581143	50.0	51.0	
106 tert-Butylbenzene	119	9.122	9.122	0.000	94	1591714	50.0	53.1	
107 1,2,4-Trimethylbenzene	105	9.179	9.182	-0.003	98	1985209	50.0	49.0	
108 sec-Butylbenzene	134	9.344	9.340	0.004	95	467705	50.0	55.4	
110 1,3-Dichlorobenzene	146	9.463	9.467	-0.004	97	1049032	50.0	50.0	
111 4-Isopropyltoluene	119	9.490	9.493	-0.003	97	1965043	50.0	48.9	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	94	1091794	50.0	49.3	
114 n-Butylbenzene	91	9.895	9.898	-0.003	98	1865459	50.0	49.8	
115 1,2-Dichlorobenzene	146	9.917	9.921	-0.004	96	1013327	50.0	51.5	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	81	89762	50.0	44.0	
118 1,2,4-Trichlorobenzene	180	11.521	11.525	-0.004	94	459002	50.0	47.0	
119 Hexachlorobutadiene	225	11.664	11.668	-0.004	97	217574	50.0	47.2	
120 Naphthalene	128	11.788	11.791	-0.003	98	996043	50.0	36.8	
121 1,2,3-Trichlorobenzene	180	12.009	12.013	-0.004	94	229624	50.0	33.3	
S 143 1,3-Dichloropropene, Total	1				0		100.0	103.0	
S 142 Trihalomethanes, Total	1				0		200.0	206.3	
S 141 Xylenes, Total	106				0		100.0	105.2	
S 140 1,2-Dichloroethene, Total	1				0		100.0	98.8	

QC Flag Legend

Processing Flags

Reagents:

MV-Gas B_00142

Amount Added: 10.00

Units: uL

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6579.D

Injection Date: 30-Jul-2023 19:40:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: icv

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

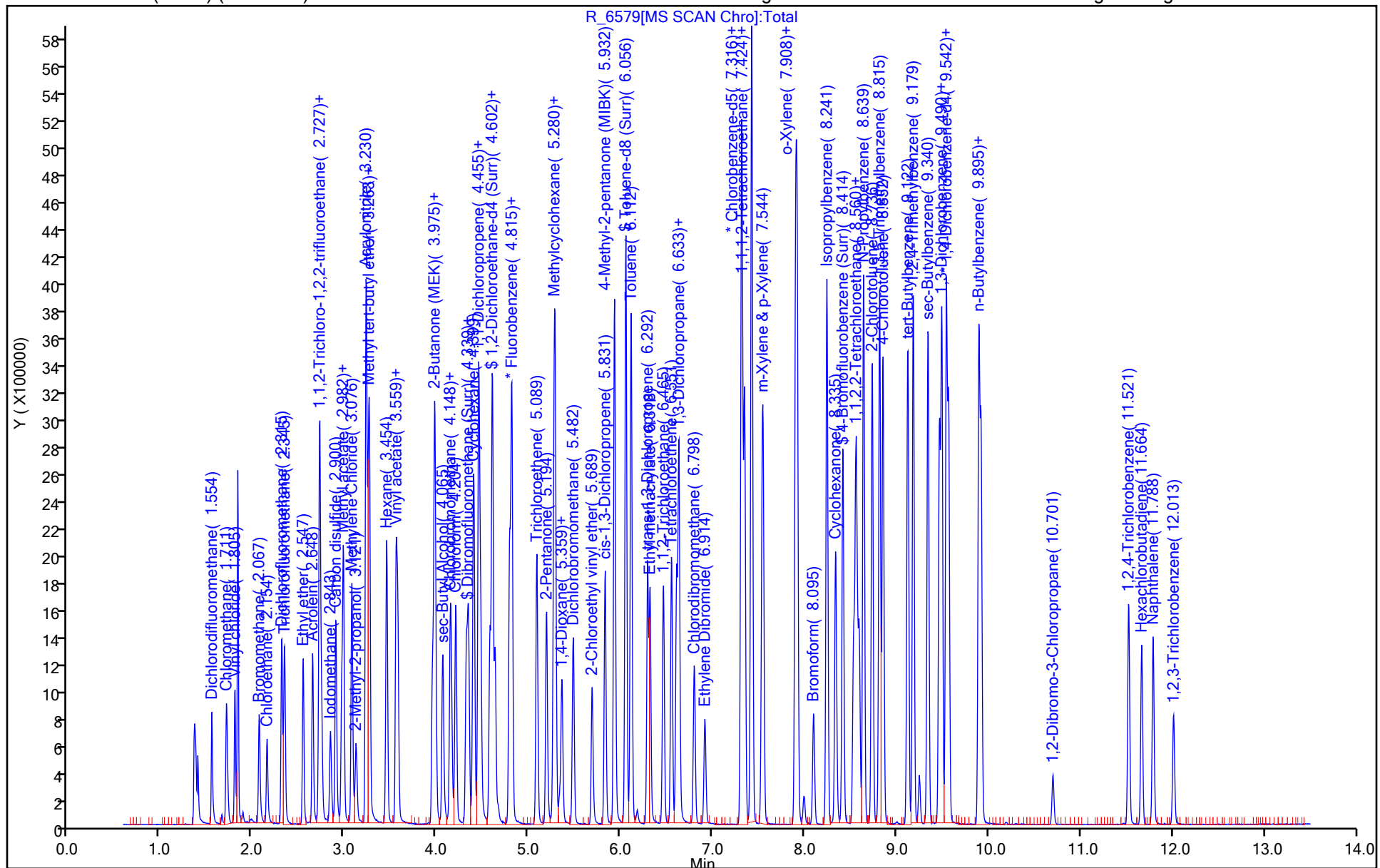
ALS Bottle#: 12

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Lab Sample ID: CCV 280-621621/2 Calibration Date: 08/02/2023 16:22

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6730aa.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2444	0.1000	50.9	50.0	1.9	20.0
Chloromethane	Lin1		0.3804	0.1000	50.1	50.0	0.1	20.0
Vinyl chloride	Lin1		0.3149	0.0100	51.6	50.0	3.2	20.0
Bromomethane	Ave	0.1999	0.1473	0.0100	36.8	50.0	-26.3*	20.0
Chloroethane	Ave	0.1971	0.1937	0.0100	49.1	50.0	-1.7	20.0
Dichlorofluoromethane	Ave	0.4638	0.4722	0.0100	50.9	50.0	1.8	20.0
Trichlorofluoromethane	Ave	0.3350	0.3349	0.0100	50.0	50.0	-0.0	20.0
Ethyl ether	Ave	0.2097	0.2210	0.0100	52.7	50.0	5.4	20.0
Acrolein	Ave	0.0352	0.0349	0.0010	490	494	-0.7	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1386	0.1422	0.0500	51.3	50.0	2.6	20.0
1,1-Dichloroethene	Ave	0.1930	0.1932	0.0600	50.1	50.0	0.1	20.0
Acetone	Lin2		0.0950	0.0100	220	200	10.2	20.0
Iodomethane	Ave	0.2695	0.2703	0.0100	50.2	50.0	0.3	20.0
Carbon disulfide	Ave	0.7639	0.7277	0.1000	47.6	50.0	-4.7	20.0
Methyl acetate	Ave	0.2046	0.2353	0.0100	115	100	15.0	20.0
Allyl chloride	Ave	0.4777	0.4520	0.0100	47.3	50.0	-5.4	20.0
Methylene Chloride	Ave	0.2612	0.2598	0.0100	49.7	50.0	-0.5	20.0
2-Methyl-2-propanol	Ave	0.0224	0.0231	0.0010	516	500	3.2	20.0
Acrylonitrile	Ave	0.1004	0.1167	0.0100	581	500	16.3	20.0
Methyl tert-butyl ether	Ave	0.6343	0.6723	0.1000	53.0	50.0	6.0	20.0
trans-1,2-Dichloroethene	Ave	0.2299	0.2263	0.1000	49.2	50.0	-1.6	20.0
Hexane	Ave	1.299	1.298	0.0100	50.0	50.0	-0.0	20.0
Vinyl acetate	Lin2		0.2811	0.0100	51.9	100	-48.1*	20.0
1,1-Dichloroethane	Ave	0.4818	0.5075	0.1000	52.7	50.0	5.3	20.0
2-Butanone (MEK)	Ave	0.1256	0.1465	0.0100	233	200	16.6	20.0
cis-1,2-Dichloroethene	Ave	0.2532	0.2535	0.1000	50.0	50.0	0.0	20.0
2,2-Dichloropropane	Ave	0.3403	0.3109	0.0100	45.7	50.0	-8.6	20.0
sec-Butyl Alcohol	Lin2		0.0226	0.0100	1200	1200	-0.4	20.0
Chlorobromomethane	Ave	0.1065	0.1147	0.0500	53.9	50.0	7.7	20.0
Tetrahydrofuran	Ave	0.0820	0.0962	0.0010	117	100	17.3	20.0
Chloroform	Ave	0.4272	0.4513	0.2000	52.8	50.0	5.7	20.0
1,1,1-Trichloroethane	Ave	0.3347	0.3511	0.0500	52.4	50.0	4.9	20.0
Cyclohexane	Ave	0.4171	0.4462	0.0100	53.5	50.0	7.0	20.0
1,1-Dichloropropene	Ave	0.3382	0.3545	0.0100	52.4	50.0	4.8	20.0
Carbon tetrachloride	Ave	0.2863	0.3027	0.1000	52.9	50.0	5.7	20.0
Isobutyl alcohol	Lin2		0.0107	0.0010	1380	1250	10.7	20.0
Benzene	Ave	1.001	1.036	0.2000	51.7	50.0	3.5	20.0
1,2-Dichloroethane	Ave	0.3428	0.3775	0.0700	55.1	50.0	10.1	20.0
n-Heptane	Ave	0.2979	0.2927		49.1	50.0	-1.7	
Trichloroethene	Ave	0.9648	1.061	0.2000	55.0	50.0	10.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Lab Sample ID: CCV 280-621621/2 Calibration Date: 08/02/2023 16:22

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6730aa.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Lin2		0.2222	0.0010	176	160	10.3	20.0
Methylcyclohexane	Ave	0.3006	0.3255	0.0500	54.1	50.0	8.3	20.0
1,2-Dichloropropane	Ave	0.2791	0.2987	0.1000	53.5	50.0	7.0	20.0
1,4-Dioxane	Lin2		0.0032	0.0010	915	1000	-8.5	20.0
Dibromomethane	Ave	0.1501	0.1570	0.0100	52.3	50.0	4.6	20.0
Dichlorobromomethane	Ave	0.3282	0.3562	0.2000	54.3	50.0	8.5	20.0
2-Chloroethyl vinyl ether	Lin2		0.1649	0.0100	49.4	50.0	-1.2	20.0
cis-1,3-Dichloropropene	Ave	1.645	1.702	0.2000	51.7	50.0	3.5	20.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.3085	0.0300	219	200	9.5	20.0
Toluene	Ave	1.036	1.057	0.3000	51.0	50.0	2.0	20.0
trans-1,3-Dichloropropene	Ave	0.3664	0.3859	0.2000	52.7	50.0	5.3	20.0
Ethyl methacrylate	Lin2		1.317	0.0100	51.7	50.0	3.5	20.0
1,1,2-Trichloroethane	Ave	0.2049	0.2159	0.1000	52.7	50.0	5.3	20.0
Tetrachloroethene	Ave	0.6574	0.6519	0.1000	49.6	50.0	-0.8	20.0
1,3-Dichloropropane	Ave	1.559	1.699	0.0100	54.5	50.0	9.0	20.0
2-Hexanone	Lin2		0.8657	0.0100	229	200	14.7	20.0
Chlorodibromomethane	Ave	0.9293	0.9686	0.1000	52.1	50.0	4.2	20.0
1,2-Dibromoethane	Ave	0.8462	0.9118	0.1000	53.9	50.0	7.8	20.0
1-Chlorohexane	Ave	1.257	1.221	0.0100	38.8	40.0	-2.9	20.0
Chlorobenzene	Ave	2.616	2.609	0.3000	49.9	50.0	-0.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8832	0.9205	0.0100	52.1	50.0	4.2	20.0
Ethylbenzene	Ave	1.381	1.435	0.3000	51.9	50.0	3.9	20.0
m-Xylene & p-Xylene	Ave	1.676	1.720	0.1000	51.3	50.0	2.7	20.0
o-Xylene	Ave	1.621	1.733	0.2000	53.4	50.0	6.9	20.0
Styrene	Ave	2.688	2.977	0.2000	55.4	50.0	10.7	20.0
Bromoform	Ave	0.6012	0.6252	0.1000	52.0	50.0	4.0	20.0
Isopropylbenzene	Ave	2.537	2.618	0.3000	51.6	50.0	3.2	20.0
Cyclohexanone	Lin2		0.0427	0.0010	1160	1500	-22.7*	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7448	0.7127	0.3000	47.8	50.0	-4.3	20.0
Bromobenzene	Ave	0.6352	0.6445	0.0100	50.7	50.0	1.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2253	0.2338	0.0100	51.9	50.0	3.8	20.0
1,2,3-Trichloropropane	Lin2		0.2174	0.0100	52.7	50.0	5.4	20.0
N-Propylbenzene	Ave	0.7003	0.7253	0.0100	51.8	50.0	3.6	20.0
2-Chlorotoluene	Ave	0.6301	0.6434	0.0100	51.1	50.0	2.1	20.0
1,3,5-Trimethylbenzene	Ave	2.108	2.236	0.0100	53.0	50.0	6.1	20.0
4-Chlorotoluene	Ave	0.6533	0.6681	0.0100	51.1	50.0	2.3	20.0
tert-Butylbenzene	Ave	1.721	1.800	0.0100	52.3	50.0	4.6	20.0
1,2,4-Trimethylbenzene	Lin2		2.352	0.3000	50.6	50.0	1.1	20.0
sec-Butylbenzene	Ave	0.4847	0.5148	0.0100	53.1	50.0	6.2	20.0
1,3-Dichlorobenzene	Ave	1.203	1.208	0.5000	50.2	50.0	0.4	20.0
4-Isopropyltoluene	Lin2		2.269	0.0100	49.2	50.0	-1.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621621/2 Calibration Date: 08/02/2023 16:22
 Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19
 Lab File ID: R_6730aa.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Ave	1.270	1.229	0.5000	48.4	50.0	-3.3	20.0
n-Butylbenzene	Lin2		2.163	0.0100	50.4	50.0	0.7	20.0
1,2-Dichlorobenzene	Ave	1.129	1.163	0.5000	51.5	50.0	3.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1172	0.1147	0.0100	48.9	50.0	-2.1	20.0
1,2,4-Trichlorobenzene	Ave	0.5608	0.5240	0.2000	46.7	50.0	-6.6	20.0
Hexachlorobutadiene	Ave	0.2644	0.2322	0.0100	43.9	50.0	-12.2	20.0
Naphthalene	Lin1		1.243	0.0100	40.1	50.0	-19.9	20.0
1,2,3-Trichlorobenzene	Qua		0.3057	0.3000	38.6	50.0	-22.8*	20.0
Dibromofluoromethane (Surr)	Ave	0.2627	0.2607	0.0100	49.6	50.0	-0.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3141	0.3335	0.0100	53.1	50.0	6.2	20.0
Toluene-d8 (Surr)	Ave	4.307	4.304	0.0100	50.0	50.0	-0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9681	0.9737	0.0100	50.3	50.0	0.6	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6730aa.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 02-Aug-2023 16:22:30 ALS Bottle#: 28 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124100-033
 Operator ID: wickham Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 02-Aug-2023 20:22:41 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1636

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	99	1796863	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	448733	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	725902	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	91	468494	50.0	49.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	599238	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1931430	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	706816	50.0	50.3	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	439127	50.0	50.9	
10 Chloromethane	50	1.715	1.715	0.000	99	683588	50.0	50.1	
11 Vinyl chloride	62	1.805	1.805	0.000	98	565915	50.0	51.6	
13 Bromomethane	94	2.067	2.067	0.000	92	264644	50.0	36.8	
14 Chloroethane	64	2.154	2.154	0.000	99	348030	50.0	49.1	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	848442	50.0	50.9	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	601833	50.0	50.0	
18 Ethyl ether	59	2.544	2.544	0.000	97	397195	50.0	52.7	
20 Acrolein	56	2.649	2.649	0.000	99	619410	493.8	490.1	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.720	2.720	0.000	96	255591	50.0	51.3	
22 1,1-Dichloroethene	96	2.723	2.723	0.000	93	347124	50.0	50.1	
23 Acetone	43	2.746	2.746	0.000	99	682483	200.0	220.4	
25 Iodomethane	142	2.843	2.843	0.000	100	485762	50.0	50.2	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1307581	50.0	47.6	
28 Methyl acetate	43	2.963	2.963	0.000	99	845611	100.0	115.0	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	812207	50.0	47.3	
30 Methylene Chloride	84	3.076	3.076	0.000	98	466821	50.0	49.7	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	94	415427	500.0	516.0	
32 Acrylonitrile	53	3.230	3.230	0.000	99	2097675	500.0	581.5	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	1207967	50.0	53.0	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	406629	50.0	49.2	
35 Hexane	57	3.451	3.451	0.000	97	582647	50.0	50.0	
37 Vinyl acetate	43	3.556	3.556	0.000	97	1010201	100.0	51.9	
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	911904	50.0	52.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1052652	200.0	233.3	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	455425	50.0	50.0	
46 2,2-Dichloropropane	77	3.979	3.979	0.000	92	558612	50.0	45.7	
48 sec-Butyl Alcohol	45	4.062	4.062	0.000	99	976494	1200.0	1195.8	
50 Chlorobromomethane	128	4.144	4.144	0.000	91	206115	50.0	53.9	
51 Tetrahydrofuran	42	4.159	4.159	0.000	91	345572	100.0	117.3	
52 Chloroform	83	4.204	4.204	0.000	95	811005	50.0	52.8	
53 1,1,1-Trichloroethane	97	4.343	4.343	0.000	97	630792	50.0	52.4	
54 Cyclohexane	56	4.399	4.399	0.000	96	801822	50.0	53.5	
55 1,1-Dichloropropene	75	4.452	4.452	0.000	95	636946	50.0	52.4	
56 Carbon tetrachloride	117	4.455	4.455	0.000	96	543854	50.0	52.9	
57 Isobutyl alcohol	41	4.474	4.474	0.000	94	478732	1250.0	1383.9	
58 Benzene	78	4.602	4.602	0.000	98	1861624	50.0	51.7	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	678379	50.0	55.1	
63 n-Heptane	43	4.789	4.789	0.000	96	526000	50.0	49.1	
65 Trichloroethene	95	5.085	5.085	0.000	95	476207	50.0	55.0	
66 2-Pentanone	43	5.190	5.190	0.000	98	1277394	160.0	176.4	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	584837	50.0	54.1	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	95	536709	50.0	53.5	
70 1,4-Dioxane	88	5.336	5.336	0.000	99	114189	1000.0	915.0	
71 Dibromomethane	93	5.359	5.359	0.000	90	282066	50.0	52.3	
72 Dichlorobromomethane	83	5.482	5.482	0.000	98	640029	50.0	54.3	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	92	296385	50.0	49.4	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	93	763898	50.0	51.7	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2217171	200.0	218.9	
77 Toluene	91	6.112	6.112	0.000	97	1900039	50.0	51.0	
78 trans-1,3-Dichloropropene	75	6.292	6.292	0.000	94	693320	50.0	52.7	
79 Ethyl methacrylate	69	6.318	6.318	0.000	93	590858	50.0	51.7	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	93	387883	50.0	52.7	
81 Tetrachloroethene	164	6.551	6.551	0.000	92	292543	50.0	49.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	96	762409	50.0	54.5	
83 2-Hexanone	43	6.630	6.630	0.000	99	1553897	200.0	229.4	
84 Chlorodibromomethane	129	6.798	6.798	0.000	90	434631	50.0	52.1	
86 Ethylene Dibromide	107	6.914	6.914	0.000	98	409155	50.0	53.9	
87 1-Chlorohexane	91	7.308	7.308	0.000	89	438278	40.0	38.8	
88 Chlorobenzene	112	7.346	7.346	0.000	91	1170628	50.0	49.9	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.421	0.000	93	413080	50.0	52.1	
90 Ethylbenzene	106	7.424	7.424	0.000	99	643727	50.0	51.9	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	771993	50.0	51.3	
92 o-Xylene	106	7.900	7.900	0.000	98	777604	50.0	53.4	
93 Styrene	104	7.919	7.919	0.000	95	1335830	50.0	55.4	
94 Bromoform	173	8.099	8.099	0.000	93	280550	50.0	52.0	
95 Isopropylbenzene	105	8.241	8.241	0.000	97	1900235	50.0	51.6	
97 Cyclohexanone	55	8.335	8.335	0.000	96	574353	1500.0	1159.7	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	517370	50.0	47.8	
99 Bromobenzene	156	8.556	8.556	0.000	98	467823	50.0	50.7	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	88	169701	50.0	51.9	
101 1,2,3-Trichloropropane	110	8.590	8.590	0.000	87	157818	50.0	52.7	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	526477	50.0	51.8	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	467032	50.0	51.1	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	95	1622989	50.0	53.0	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	484977	50.0	51.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 tert-Butylbenzene	119	9.122	9.122	0.000	95	1306770	50.0	52.3	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1707286	50.0	50.6	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	373671	50.0	53.1	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	97	876755	50.0	50.2	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1646975	50.0	49.2	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	892024	50.0	48.4	
114 n-Butylbenzene	91	9.895	9.895	0.000	98	1570361	50.0	50.4	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	96	843903	50.0	51.5	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.701	0.000	76	83235	50.0	48.9	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	380398	50.0	46.7	
119 Hexachlorobutadiene	225	11.660	11.660	0.000	97	168551	50.0	43.9	
120 Naphthalene	128	11.788	11.788	0.000	98	902338	50.0	40.1	
121 1,2,3-Trichlorobenzene	180	12.009	12.009	0.000	94	221922	50.0	38.6	
S 143 1,3-Dichloropropene, Total	1				0		100.0	104.4	
S 142 Trihalomethanes, Total	1				0		200.0	211.2	
S 141 Xylenes, Total	106				0		100.0	104.8	
S 140 1,2-Dichloroethene, Total	1				0		100.0	99.3	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 02-Aug-2023 20:22:42

Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6730aa.D

Injection Date: 02-Aug-2023 16:22:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

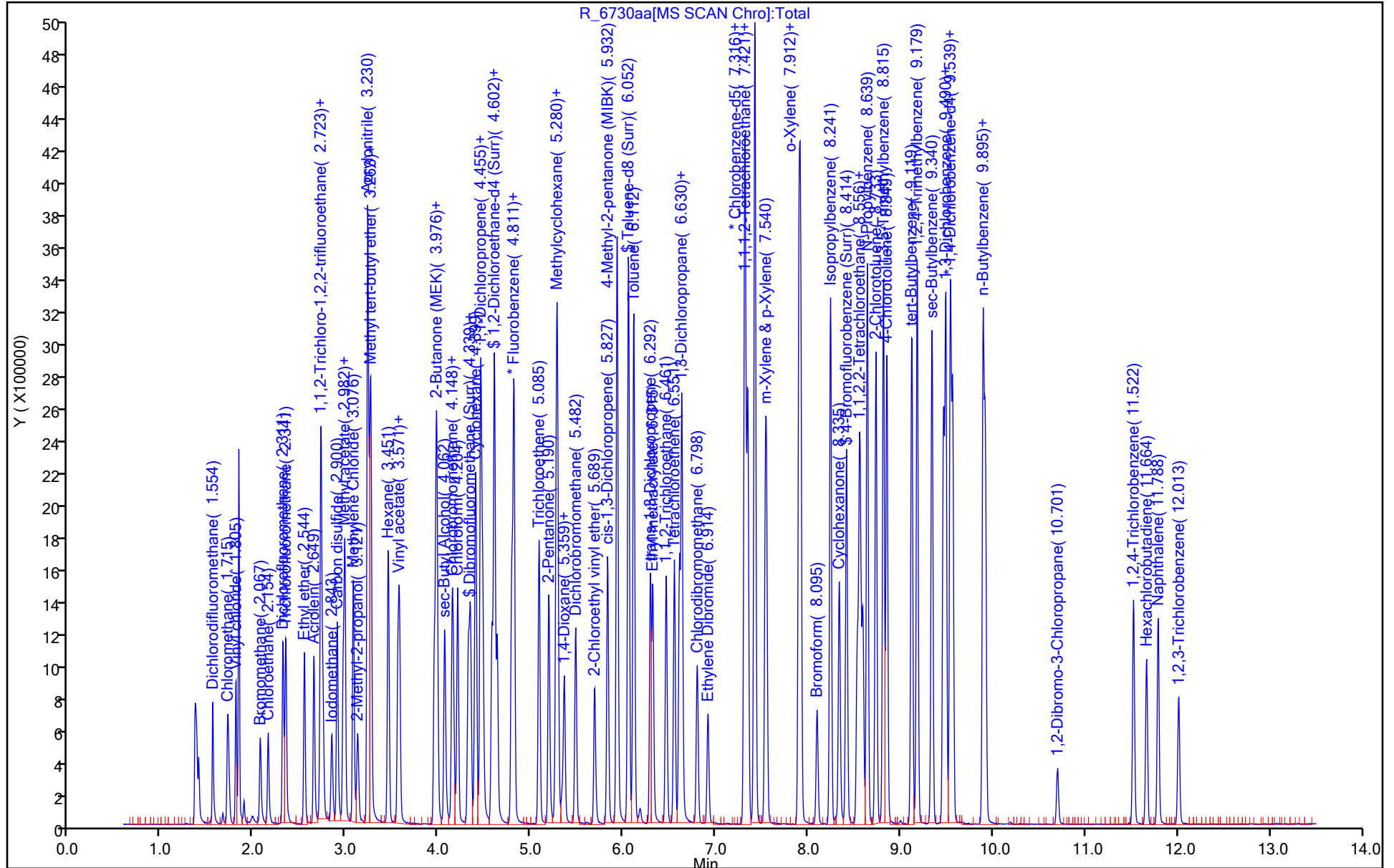
ALS Bottle#: 28

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/7/2023 6:03

PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621621/3 Calibration Date: 08/02/2023 16:43
 Instrument ID: VMS_R1 Calib Start Date: 03/29/2022 17:08
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 03/29/2022 19:40
 Lab File ID: R_6731a.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin2		0.0044*	0.0100	2730	1500	81.7*	20.0
Isopropyl alcohol	Ave	0.0128	0.0162	0.0100	317	250	26.7*	20.0
Acetonitrile	Ave	0.0298	0.0439	0.0100	368	250	47.4*	20.0
Isopropyl ether	Ave	0.1747	0.1741	0.0100	24.9	25.0	-0.3	20.0
Chloroprene	Ave	0.3282	0.4082	0.0100	31.1	25.0	24.4*	20.0
Tert-butyl ethyl ether	Ave	0.6061	0.7094	0.0100	29.3	25.0	17.0	20.0
Ethyl acetate	Ave	0.1897	0.2666	0.0100	70.3	50.0	40.5*	20.0
Propionitrile	Ave	0.0358	0.0401	0.0100	280	250	11.8	20.0
Methacrylonitrile	Ave	0.1414	0.1940	0.0100	343	250	37.2*	20.0
Tert-amyl methyl ether	Ave	0.5540	0.5935	0.0100	26.8	25.0	7.1	20.0
n-Butanol	Lin1		0.0058*	0.0100	561	625	-10.2	20.0
Methyl methacrylate	Ave	0.0612	0.0549	0.0100	44.9	50.0	-10.2	20.0
2-Nitropropane	Ave	0.0544	0.0699	0.0100	64.2	50.0	28.4*	20.0
cis-1,4-Dichloro-2-butene	Lin1		0.2207	0.0100	54.9	50.0	9.8	20.0
1,2,3-Trimethylbenzene	Ave	2.297	2.374	0.0100	25.8	25.0	3.4	20.0
1,3,5-Trichlorobenzene	Ave	0.8098	0.6660	0.0100	20.6	25.0	-17.8	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6731a.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 02-Aug-2023 16:43:30 ALS Bottle#: 29 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124100-034
 Operator ID: wickham Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1636

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.812	0.000	98	1852894	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	454432	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	668667	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.317	0.000	92	499531	50.0	51.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	621888	50.0	53.4	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1958727	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	695699	50.0	53.7	
17 Ethanol	45	2.457	2.457	0.000	98	242027	1500.0	2726.1	
24 Isopropyl alcohol	45	2.832	2.832	0.000	98	150187	250.0	316.8	
27 Acetonitrile	41	2.941	2.941	0.000	99	406616	250.0	368.5	
38 Isopropyl ether	87	3.578	3.578	0.000	95	161279	25.0	24.9	
40 2-Chloro-1,3-butadiene	53	3.623	3.623	0.000	93	378158	25.0	31.1	
41 Tert-butyl ethyl ether	59	3.829	3.829	0.000	97	657182	25.0	29.3	
44 Ethyl acetate	43	3.968	3.968	0.000	99	494073	50.0	70.3	
47 Propionitrile	54	3.998	3.998	0.000	100	371107	250.0	279.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	96	1797301	250.0	343.1	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	96	549845	25.0	26.8	
64 n-Butanol	56	4.965	4.965	0.000	93	134110	625.0	561.3	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	101746	50.0	44.9	
73 2-Nitropropane	41	5.644	5.644	0.000	99	129491	50.0	64.2	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.298	0.000	0	147566	50.0	54.9	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	793812	25.0	25.8	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	222680	25.0	20.6	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 02-Aug-2023 20:22:43

Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6731a.D

Injection Date: 02-Aug-2023 16:43:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

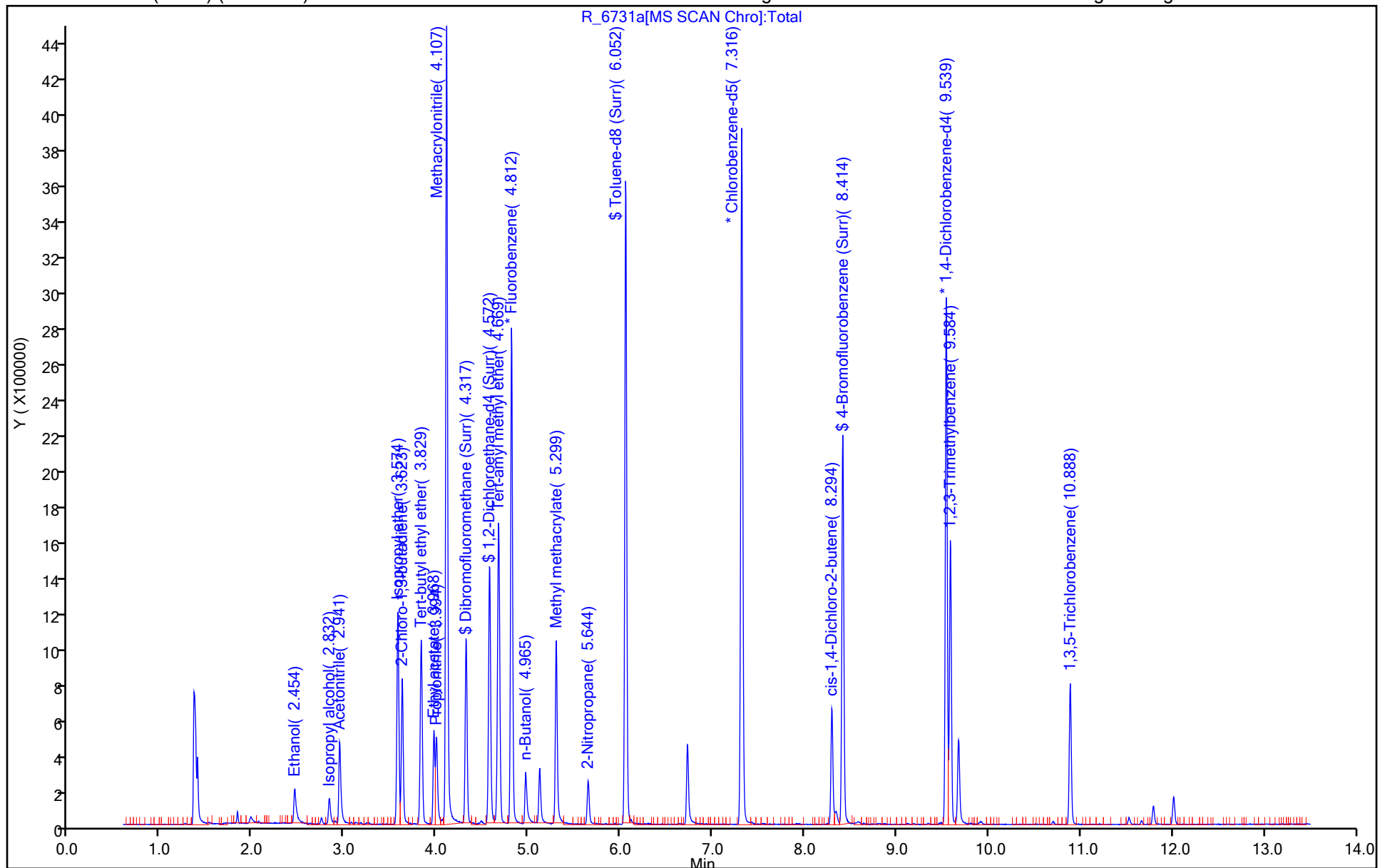
ALS Bottle#: 29

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab Sample ID: CCV 280-621621/3 Calibration Date: 08/02/2023 16:43
Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32
GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19
Lab File ID: R_6731a.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2627	0.2696	0.0100	51.3	50.0	2.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3141	0.3356	0.0100	53.4	50.0	6.9	20.0
Toluene-d8 (Surr)	Ave	4.307	4.310	0.0100	50.0	50.0	0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9681	1.040	0.0100	53.7	50.0	7.5	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6731a.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 02-Aug-2023 16:43:30 ALS Bottle#: 29 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124100-034
 Operator ID: wickham Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1636

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.812	0.000	98	1852894	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	454432	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	668667	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.317	0.000	92	499531	50.0	51.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	621888	50.0	53.4	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1958727	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	695699	50.0	53.7	
17 Ethanol	45	2.457	2.457	0.000	98	242027	1500.0	2726.1	
24 Isopropyl alcohol	45	2.832	2.832	0.000	98	150187	250.0	316.8	
27 Acetonitrile	41	2.941	2.941	0.000	99	406616	250.0	368.5	
38 Isopropyl ether	87	3.578	3.578	0.000	95	161279	25.0	24.9	
40 2-Chloro-1,3-butadiene	53	3.623	3.623	0.000	93	378158	25.0	31.1	
41 Tert-butyl ethyl ether	59	3.829	3.829	0.000	97	657182	25.0	29.3	
44 Ethyl acetate	43	3.968	3.968	0.000	99	494073	50.0	70.3	
47 Propionitrile	54	3.998	3.998	0.000	100	371107	250.0	279.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	96	1797301	250.0	343.1	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	96	549845	25.0	26.8	
64 n-Butanol	56	4.965	4.965	0.000	93	134110	625.0	561.3	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	101746	50.0	44.9	
73 2-Nitropropane	41	5.644	5.644	0.000	99	129491	50.0	64.2	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.298	0.000	0	147566	50.0	54.9	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	793812	25.0	25.8	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	222680	25.0	20.6	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6731a.D

Injection Date: 02-Aug-2023 16:43:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

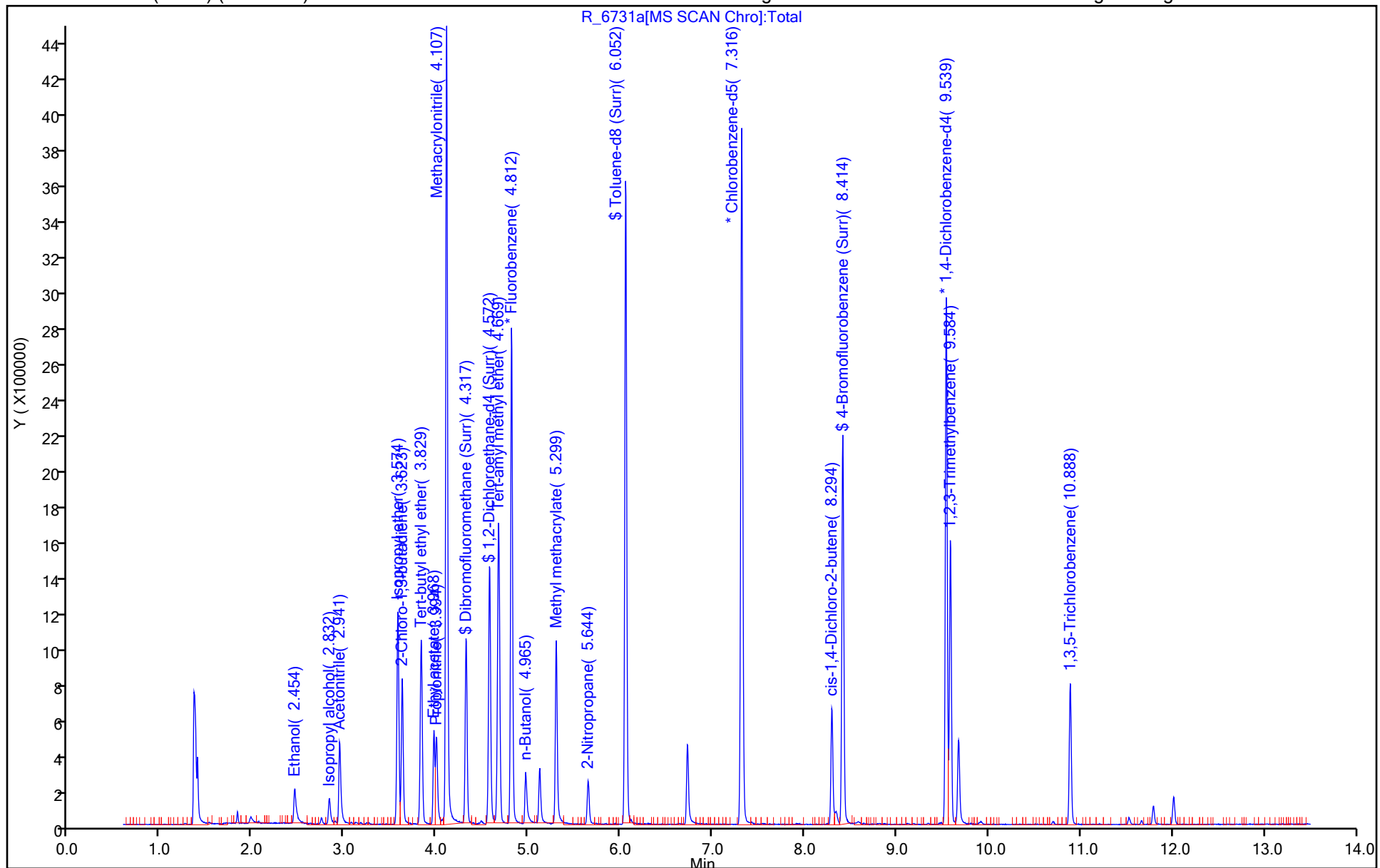
ALS Bottle#: 29

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Lab Sample ID: CCV 280-621775/2 Calibration Date: 08/03/2023 16:12

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6787aa.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2564	0.1000	53.5	50.0	6.9	20.0
Chloromethane	Lin1		0.3660	0.1000	48.2	50.0	-3.7	20.0
Vinyl chloride	Lin1		0.3139	0.0100	51.4	50.0	2.8	20.0
Bromomethane	Ave	0.1999	0.1378	0.0100	34.5	50.0	-31.1*	20.0
Chloroethane	Ave	0.1971	0.1875	0.0100	47.6	50.0	-4.9	20.0
Dichlorofluoromethane	Ave	0.4638	0.4606	0.0100	49.6	50.0	-0.7	20.0
Trichlorofluoromethane	Ave	0.3350	0.3616	0.0100	54.0	50.0	7.9	20.0
Ethyl ether	Ave	0.2097	0.2192	0.0100	52.3	50.0	4.5	20.0
Acrolein	Ave	0.0352	0.0343	0.0010	481	494	-2.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1386	0.1424	0.0500	51.4	50.0	2.7	20.0
1,1-Dichloroethene	Ave	0.1930	0.1911	0.0600	49.5	50.0	-0.9	20.0
Acetone	Lin2		0.0907	0.0100	210	200	5.0	20.0
Iodomethane	Ave	0.2695	0.2356	0.0100	43.7	50.0	-12.6	20.0
Carbon disulfide	Ave	0.7639	0.7126	0.1000	46.6	50.0	-6.7	20.0
Methyl acetate	Ave	0.2046	0.2271	0.0100	111	100	11.0	20.0
Allyl chloride	Ave	0.4777	0.4594	0.0100	48.1	50.0	-3.8	20.0
Methylene Chloride	Ave	0.2612	0.2549	0.0100	48.8	50.0	-2.4	20.0
2-Methyl-2-propanol	Ave	0.0224	0.0234	0.0010	523	500	4.7	20.0
Acrylonitrile	Ave	0.1004	0.1118	0.0100	557	500	11.4	20.0
Methyl tert-butyl ether	Ave	0.6343	0.6773	0.1000	53.4	50.0	6.8	20.0
trans-1,2-Dichloroethene	Ave	0.2299	0.2250	0.1000	48.9	50.0	-2.1	20.0
Hexane	Ave	1.299	1.314	0.0100	50.6	50.0	1.1	20.0
Vinyl acetate	Lin2		0.5414	0.0100	99.0	100	-1.0	20.0
1,1-Dichloroethane	Ave	0.4818	0.5007	0.1000	52.0	50.0	3.9	20.0
2-Butanone (MEK)	Ave	0.1256	0.1429	0.0100	228	200	13.8	20.0
cis-1,2-Dichloroethene	Ave	0.2532	0.2530	0.1000	50.0	50.0	-0.0	20.0
2,2-Dichloropropane	Ave	0.3403	0.3147	0.0100	46.2	50.0	-7.5	20.0
sec-Butyl Alcohol	Lin2		0.0228	0.0100	1200	1200	0.3	20.0
Chlorobromomethane	Ave	0.1065	0.1117	0.0500	52.4	50.0	4.8	20.0
Tetrahydrofuran	Ave	0.0820	0.0971	0.0010	118	100	18.4	20.0
Chloroform	Ave	0.4272	0.4390	0.2000	51.4	50.0	2.8	20.0
1,1,1-Trichloroethane	Ave	0.3347	0.3529	0.0500	52.7	50.0	5.4	20.0
Cyclohexane	Ave	0.4171	0.4582	0.0100	54.9	50.0	9.8	20.0
1,1-Dichloropropene	Ave	0.3382	0.3568	0.0100	52.8	50.0	5.5	20.0
Carbon tetrachloride	Ave	0.2863	0.3012	0.1000	52.6	50.0	5.2	20.0
Isobutyl alcohol	Lin2		0.0097	0.0010	1260	1250	1.2	20.0
Benzene	Ave	1.001	1.033	0.2000	51.6	50.0	3.2	20.0
1,2-Dichloroethane	Ave	0.3428	0.3638	0.0700	53.1	50.0	6.1	20.0
n-Heptane	Ave	0.2979	0.3009		50.5	50.0	1.0	
Trichloroethene	Ave	0.9648	0.997	0.2000	51.7	50.0	3.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Lab Sample ID: CCV 280-621775/2 Calibration Date: 08/03/2023 16:12

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6787aa.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Lin2		0.2189	0.0010	174	160	8.7	20.0
Methylcyclohexane	Ave	0.3006	0.3300	0.0500	54.9	50.0	9.8	20.0
1,2-Dichloropropane	Ave	0.2791	0.2958	0.1000	53.0	50.0	6.0	20.0
1,4-Dioxane	Lin2		0.0031	0.0010	902	1000	-9.8	20.0
Dibromomethane	Ave	0.1501	0.1525	0.0100	50.8	50.0	1.6	20.0
Dichlorobromomethane	Ave	0.3282	0.3477	0.2000	53.0	50.0	5.9	20.0
2-Chloroethyl vinyl ether	Lin2		0.1730	0.0100	51.8	50.0	3.6	20.0
cis-1,3-Dichloropropene	Ave	1.645	1.736	0.2000	52.8	50.0	5.5	20.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.3015	0.0300	214	200	7.0	20.0
Toluene	Ave	1.036	1.059	0.3000	51.1	50.0	2.2	20.0
trans-1,3-Dichloropropene	Ave	0.3664	0.3805	0.2000	51.9	50.0	3.9	20.0
Ethyl methacrylate	Lin2		1.342	0.0100	52.7	50.0	5.4	20.0
1,1,2-Trichloroethane	Ave	0.2049	0.2126	0.1000	51.9	50.0	3.7	20.0
Tetrachloroethene	Ave	0.6574	0.6656	0.1000	50.6	50.0	1.3	20.0
1,3-Dichloropropane	Ave	1.559	1.705	0.0100	54.7	50.0	9.4	20.0
2-Hexanone	Lin2		0.8362	0.0100	222	200	10.8	20.0
Chlorodibromomethane	Ave	0.9293	0.9522	0.1000	51.2	50.0	2.5	20.0
1,2-Dibromoethane	Ave	0.8462	0.8980	0.1000	53.1	50.0	6.1	20.0
1-Chlorohexane	Ave	1.257	1.257	0.0100	40.0	40.0	-0.0	20.0
Chlorobenzene	Ave	2.616	2.591	0.3000	49.5	50.0	-1.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8832	0.9202	0.0100	52.1	50.0	4.2	20.0
Ethylbenzene	Ave	1.381	1.425	0.3000	51.6	50.0	3.1	20.0
m-Xylene & p-Xylene	Ave	1.676	1.795	0.1000	53.6	50.0	7.1	20.0
o-Xylene	Ave	1.621	1.748	0.2000	53.9	50.0	7.8	20.0
Styrene	Ave	2.688	2.932	0.2000	54.5	50.0	9.1	20.0
Bromoform	Ave	0.6012	0.6086	0.1000	50.6	50.0	1.2	20.0
Isopropylbenzene	Ave	2.537	2.662	0.3000	52.5	50.0	4.9	20.0
Cyclohexanone	Lin2		0.0635	0.0010	1720	1500	14.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7448	0.7740	0.3000	52.0	50.0	3.9	20.0
Bromobenzene	Ave	0.6352	0.6367	0.0100	50.1	50.0	0.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2253	0.2238	0.0100	49.7	50.0	-0.7	20.0
1,2,3-Trichloropropane	Lin2		0.2126	0.0100	51.6	50.0	3.1	20.0
N-Propylbenzene	Ave	0.7003	0.7207	0.0100	51.5	50.0	2.9	20.0
2-Chlorotoluene	Ave	0.6301	0.6497	0.0100	51.5	50.0	3.1	20.0
1,3,5-Trimethylbenzene	Ave	2.108	2.235	0.0100	53.0	50.0	6.1	20.0
4-Chlorotoluene	Ave	0.6533	0.6693	0.0100	51.2	50.0	2.5	20.0
tert-Butylbenzene	Ave	1.721	1.825	0.0100	53.0	50.0	6.1	20.0
1,2,4-Trimethylbenzene	Lin2		2.373	0.3000	51.0	50.0	2.0	20.0
sec-Butylbenzene	Ave	0.4847	0.5131	0.0100	52.9	50.0	5.8	20.0
1,3-Dichlorobenzene	Ave	1.203	1.182	0.5000	49.1	50.0	-1.7	20.0
4-Isopropyltoluene	Lin2		2.248	0.0100	48.8	50.0	-2.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621775/2 Calibration Date: 08/03/2023 16:12
 Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19
 Lab File ID: R_6787aa.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Ave	1.270	1.214	0.5000	47.8	50.0	-4.4	20.0
n-Butylbenzene	Lin2		2.104	0.0100	49.0	50.0	-2.0	20.0
1,2-Dichlorobenzene	Ave	1.129	1.125	0.5000	49.8	50.0	-0.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1172	0.1129	0.0100	48.2	50.0	-3.6	20.0
1,2,4-Trichlorobenzene	Ave	0.5608	0.5299	0.2000	47.2	50.0	-5.5	20.0
Hexachlorobutadiene	Ave	0.2644	0.2234	0.0100	42.2	50.0	-15.5	20.0
Naphthalene	Lin1		1.277	0.0100	41.1	50.0	-17.7	20.0
1,2,3-Trichlorobenzene	Qua		0.3123	0.3000	39.4	50.0	-21.2*	20.0
Dibromofluoromethane (Surr)	Ave	0.2627	0.2641	0.0100	50.3	50.0	0.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3141	0.3335	0.0100	53.1	50.0	6.2	20.0
Toluene-d8 (Surr)	Ave	4.307	4.378	0.0100	50.8	50.0	1.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9681	1.001	0.0100	51.7	50.0	3.4	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787aa.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Aug-2023 16:12:30 ALS Bottle#: 29 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-033
 Operator ID: wickham Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:27:59 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:02:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.812	0.000	98	1989859	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	89	489881	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	97	788548	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.321	0.000	92	525529	50.0	50.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	663653	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2144910	50.0	50.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	789115	50.0	51.7	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	510258	50.0	53.5	
10 Chloromethane	50	1.715	1.715	0.000	99	728370	50.0	48.2	
11 Vinyl chloride	62	1.801	1.801	0.000	98	624663	50.0	51.4	
13 Bromomethane	94	2.068	2.068	0.000	91	274158	50.0	34.5	
14 Chloroethane	64	2.150	2.150	0.000	99	373052	50.0	47.6	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	916433	50.0	49.6	
16 Trichlorofluoromethane	101	2.341	2.341	0.000	99	719446	50.0	54.0	
18 Ethyl ether	59	2.547	2.547	0.000	97	436098	50.0	52.3	
20 Acrolein	56	2.649	2.649	0.000	99	673128	493.8	480.9	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.724	2.724	0.000	96	283397	50.0	51.4	
22 1,1-Dichloroethene	96	2.724	2.724	0.000	93	380349	50.0	49.5	
23 Acetone	43	2.746	2.746	0.000	99	722012	200.0	210.1	
25 Iodomethane	142	2.840	2.840	0.000	100	468858	50.0	43.7	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1417939	50.0	46.6	
28 Methyl acetate	43	2.967	2.967	0.000	99	903667	100.0	111.0	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	914150	50.0	48.1	
30 Methylene Chloride	84	3.072	3.072	0.000	99	507116	50.0	48.8	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	96	466530	500.0	523.3	
32 Acrylonitrile	53	3.230	3.230	0.000	98	2225490	500.0	557.0	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	1347806	50.0	53.4	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	447673	50.0	48.9	
35 Hexane	57	3.455	3.455	0.000	98	643725	50.0	50.6	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2154533	100.0	99.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.575	3.575	0.000	96	996336	50.0	52.0	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1137105	200.0	227.6	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	503486	50.0	50.0	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	91	626266	50.0	46.2	
48 sec-Butyl Alcohol	45	4.066	4.066	0.000	99	1088363	1200.0	1203.4	
50 Chlorobromomethane	128	4.148	4.148	0.000	91	222200	50.0	52.4	
51 Tetrahydrofuran	42	4.156	4.156	0.000	93	386319	100.0	118.4	
52 Chloroform	83	4.204	4.204	0.000	95	873515	50.0	51.4	
53 1,1,1-Trichloroethane	97	4.343	4.343	0.000	97	702180	50.0	52.7	
54 Cyclohexane	56	4.399	4.399	0.000	96	911699	50.0	54.9	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	96	709968	50.0	52.8	
56 Carbon tetrachloride	117	4.459	4.459	0.000	96	599353	50.0	52.6	
57 Isobutyl alcohol	41	4.474	4.474	0.000	93	484162	1250.0	1264.7	
58 Benzene	78	4.602	4.602	0.000	98	2056206	50.0	51.6	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	723884	50.0	53.1	
63 n-Heptane	43	4.789	4.789	0.000	98	598778	50.0	50.5	
65 Trichloroethene	95	5.085	5.085	0.000	96	488565	50.0	51.7	
66 2-Pentanone	43	5.190	5.190	0.000	98	1393974	160.0	173.9	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	656712	50.0	54.9	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	95	588636	50.0	53.0	
70 1,4-Dioxane	88	5.336	5.336	0.000	98	124670	1000.0	902.2	
71 Dibromomethane	93	5.359	5.359	0.000	90	303397	50.0	50.8	
72 Dichlorobromomethane	83	5.483	5.483	0.000	98	691799	50.0	53.0	
74 2-Chloroethyl vinyl ether	63	5.685	5.685	0.000	92	344266	50.0	51.8	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	850623	50.0	52.8	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2399779	200.0	214.0	
77 Toluene	91	6.112	6.112	0.000	97	2107028	50.0	51.1	
78 trans-1,3-Dichloropropene	75	6.289	6.289	0.000	94	757166	50.0	51.9	
79 Ethyl methacrylate	69	6.319	6.319	0.000	93	657452	50.0	52.7	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	92	422976	50.0	51.9	
81 Tetrachloroethene	164	6.551	6.551	0.000	92	326058	50.0	50.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	94	835149	50.0	54.7	
83 2-Hexanone	43	6.630	6.630	0.000	98	1638496	200.0	221.7	
84 Chlorodibromomethane	129	6.798	6.798	0.000	91	466450	50.0	51.2	
86 Ethylene Dibromide	107	6.915	6.915	0.000	98	439918	50.0	53.1	
87 1-Chlorohexane	91	7.308	7.308	0.000	89	492704	40.0	40.0	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1269037	50.0	49.5	
89 1,1,1,2-Tetrachloroethane	131	7.417	7.417	0.000	95	450784	50.0	52.1	
90 Ethylbenzene	106	7.424	7.424	0.000	99	697963	50.0	51.6	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	879254	50.0	53.6	
92 o-Xylene	106	7.900	7.900	0.000	98	856394	50.0	53.9	
93 Styrene	104	7.915	7.915	0.000	95	1436256	50.0	54.5	
94 Bromoform	173	8.095	8.095	0.000	93	298156	50.0	50.6	
95 Isopropylbenzene	105	8.242	8.242	0.000	97	2099274	50.0	52.5	
97 Cyclohexanone	55	8.335	8.335	0.000	97	933479	1500.0	1720.9	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	610300	50.0	52.0	
99 Bromobenzene	156	8.553	8.553	0.000	97	502070	50.0	50.1	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	70	176445	50.0	49.7	
101 1,2,3-Trichloropropane	110	8.590	8.590	0.000	87	167624	50.0	51.6	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	568342	50.0	51.5	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	512281	50.0	51.5	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	95	1762586	50.0	53.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	527793	50.0	51.2	
106 tert-Butylbenzene	119	9.119	9.119	0.000	95	1439238	50.0	53.0	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1870987	50.0	51.0	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	404569	50.0	52.9	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	97	931808	50.0	49.1	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1772519	50.0	48.8	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	957236	50.0	47.8	
114 n-Butylbenzene	91	9.891	9.891	0.000	98	1659252	50.0	49.0	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	886723	50.0	49.8	
116 1,2-Dibromo-3-Chloropropane	157	10.697	10.697	0.000	77	89013	50.0	48.2	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	417841	50.0	47.2	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	96	176140	50.0	42.2	
120 Naphthalene	128	11.788	11.788	0.000	98	1006694	50.0	41.1	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	246255	50.0	39.4	
S 143 1,3-Dichloropropene, Total	1				0		100.0	104.7	
S 142 Trihalomethanes, Total	1				0		200.0	206.2	
S 141 Xylenes, Total	106				0		100.0	107.5	
S 140 1,2-Dichloroethene, Total	1				0		100.0	98.9	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621775/3 Calibration Date: 08/03/2023 16:33
 Instrument ID: VMS_R1 Calib Start Date: 03/29/2022 17:08
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 03/29/2022 19:40
 Lab File ID: R_6788a.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin2		0.0039*	0.0100	2440	1500	62.8*	20.0
Isopropyl alcohol	Ave	0.0128	0.0168	0.0100	328	250	31.2*	20.0
Acetonitrile	Ave	0.0298	0.0427	0.0100	359	250	43.5*	20.0
Isopropyl ether	Ave	0.1747	0.1773	0.0100	25.4	25.0	1.5	20.0
Chloroprene	Ave	0.3282	0.4085	0.0100	31.1	25.0	24.5*	20.0
Tert-butyl ethyl ether	Ave	0.6061	0.7312	0.0100	30.2	25.0	20.6*	20.0
Ethyl acetate	Ave	0.1897	0.2651	0.0100	69.9	50.0	39.7*	20.0
Propionitrile	Ave	0.0358	0.0392	0.0100	274	250	9.4	20.0
Methacrylonitrile	Ave	0.1414	0.1886	0.0100	334	250	33.4*	20.0
Tert-amyl methyl ether	Ave	0.5540	0.6107	0.0100	27.6	25.0	10.2	20.0
n-Butanol	Lin1		0.0058*	0.0100	561	625	-10.3	20.0
Methyl methacrylate	Ave	0.0612	0.0560	0.0100	45.8	50.0	-8.4	20.0
2-Nitropropane	Ave	0.0544	0.0666	0.0100	61.2	50.0	22.3*	20.0
cis-1,4-Dichloro-2-butene	Lin1		0.2166	0.0100	53.9	50.0	7.8	20.0
1,2,3-Trimethylbenzene	Ave	2.297	2.350	0.0100	25.6	25.0	2.3	20.0
1,3,5-Trichlorobenzene	Ave	0.8098	0.6843	0.0100	21.1	25.0	-15.5	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788a.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Aug-2023 16:33:30 ALS Bottle#: 30 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-034
 Operator ID: wickhamt Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:15:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	1961989	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	474990	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	715399	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	525995	50.0	51.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	645188	50.0	52.4	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2058646	50.0	50.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	739427	50.0	53.4	
17 Ethanol	45	2.457	2.457	0.000	100	230074	1500.0	2441.7	
24 Isopropyl alcohol	45	2.832	2.832	0.000	98	164716	250.0	328.1	
27 Acetonitrile	41	2.945	2.945	0.000	100	419209	250.0	358.8	
38 Isopropyl ether	87	3.574	3.574	0.000	95	173918	25.0	25.4	
40 2-Chloro-1,3-butadiene	53	3.627	3.627	0.000	94	400733	25.0	31.1	
41 Tert-butyl ethyl ether	59	3.833	3.833	0.000	99	717298	25.0	30.2	
44 Ethyl acetate	43	3.968	3.968	0.000	99	520043	50.0	69.9	
47 Propionitrile	54	3.998	3.998	0.000	99	384491	250.0	273.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	95	1850469	250.0	333.6	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	92	599097	25.0	27.6	
64 n-Butanol	56	4.969	4.969	0.000	91	141828	625.0	560.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	109901	50.0	45.8	
73 2-Nitropropane	41	5.647	5.647	0.000	99	130655	50.0	61.2	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.298	0.000	0	154920	50.0	53.9	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	840739	25.0	25.6	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	244769	25.0	21.1	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

MV-Supp A_00083	Amount Added: 25.00	Units: uL	
mv-IS_SS_00066	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 04-Aug-2023 23:28:00

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788a.D

Injection Date: 03-Aug-2023 16:33:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

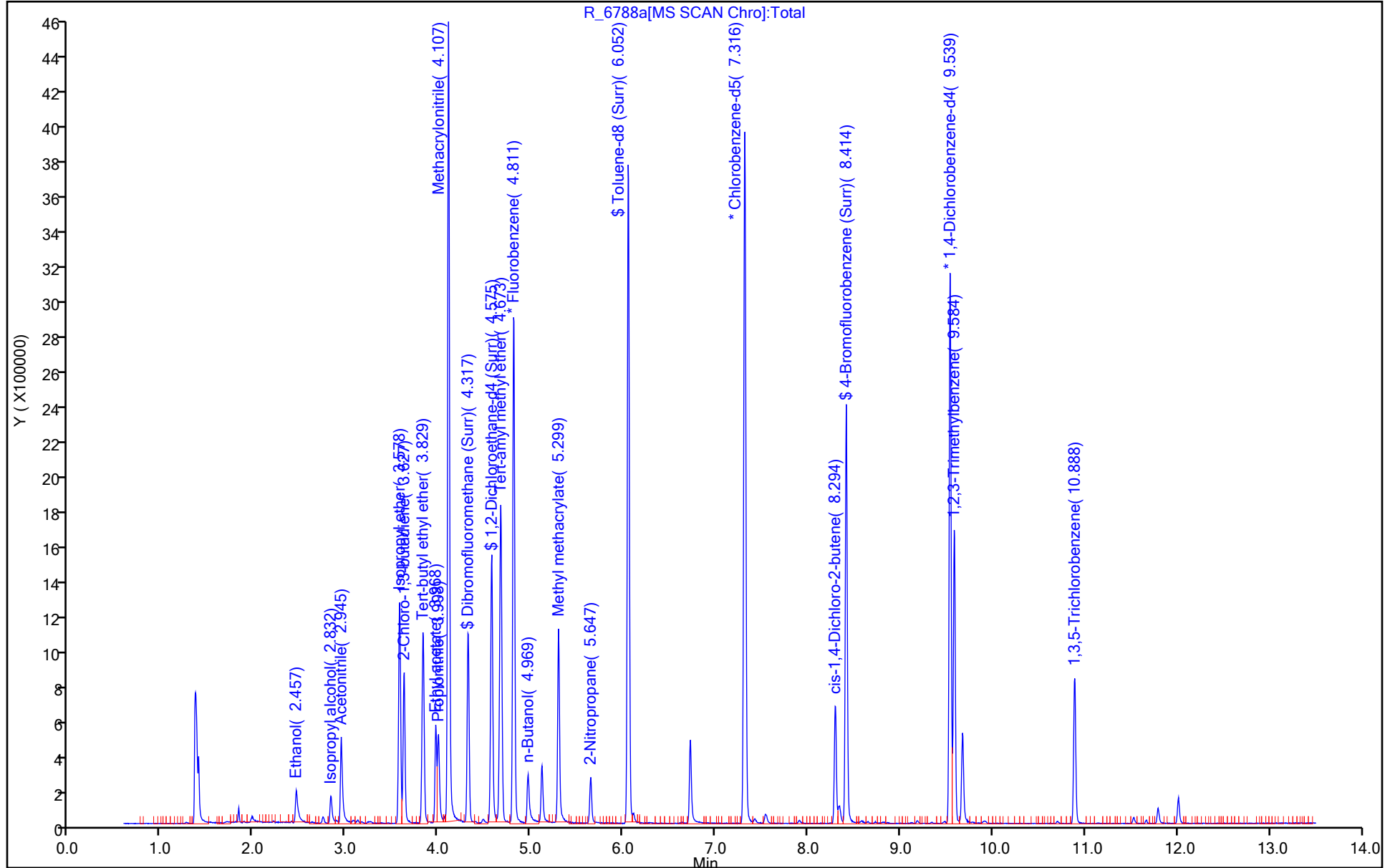
ALS Bottle#: 30

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Lab Sample ID: CCV 280-621775/3 Calibration Date: 08/03/2023 16:33
Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32
GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19
Lab File ID: R_6788a.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2627	0.2681	0.0100	51.0	50.0	2.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3141	0.3288	0.0100	52.4	50.0	4.7	20.0
Toluene-d8 (Surr)	Ave	4.307	4.334	0.0100	50.3	50.0	0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9681	1.034	0.0100	53.4	50.0	6.8	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788a.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Aug-2023 16:33:30 ALS Bottle#: 30 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-034
 Operator ID: wickhamt Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:15:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	1961989	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	474990	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	715399	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	525995	50.0	51.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	645188	50.0	52.4	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2058646	50.0	50.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	739427	50.0	53.4	
17 Ethanol	45	2.457	2.457	0.000	100	230074	1500.0	2441.7	
24 Isopropyl alcohol	45	2.832	2.832	0.000	98	164716	250.0	328.1	
27 Acetonitrile	41	2.945	2.945	0.000	100	419209	250.0	358.8	
38 Isopropyl ether	87	3.574	3.574	0.000	95	173918	25.0	25.4	
40 2-Chloro-1,3-butadiene	53	3.627	3.627	0.000	94	400733	25.0	31.1	
41 Tert-butyl ethyl ether	59	3.833	3.833	0.000	99	717298	25.0	30.2	
44 Ethyl acetate	43	3.968	3.968	0.000	99	520043	50.0	69.9	
47 Propionitrile	54	3.998	3.998	0.000	99	384491	250.0	273.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	95	1850469	250.0	333.6	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	92	599097	25.0	27.6	
64 n-Butanol	56	4.969	4.969	0.000	91	141828	625.0	560.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	109901	50.0	45.8	
73 2-Nitropropane	41	5.647	5.647	0.000	99	130655	50.0	61.2	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.298	0.000	0	154920	50.0	53.9	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	840739	25.0	25.6	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	244769	25.0	21.1	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 23:28:00

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788a.D

Injection Date: 03-Aug-2023 16:33:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

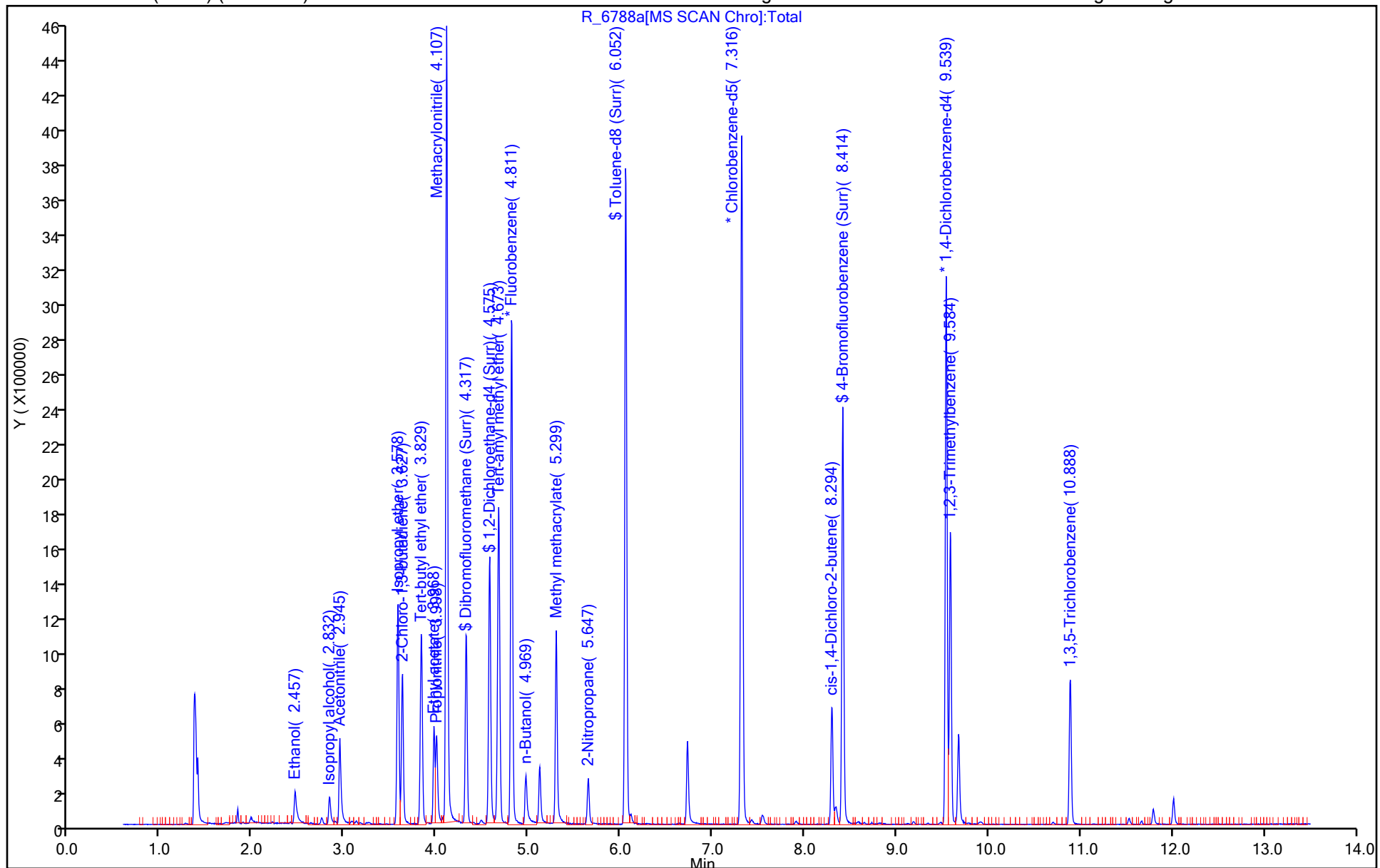
ALS Bottle#: 30

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003245a.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 07-Jul-2023 23:31:57 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 280-0123341-024
 Operator ID: ccf Instrument ID: VMS_MS13
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 10-Jul-2023 23:58:51 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: AK2J

Date: 10-Jul-2023 22:43:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	8.818	8.818	0.000	77	608581	NR	NR	a
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003245a.D

Injection Date: 07-Jul-2023 23:31:57

Instrument ID: VMS_MS13

Lims ID: BFB

Client ID:

Operator ID: ccf

ALS Bottle#: 0 Worklist Smp#: 1

Injection Vol: 5.0 mL

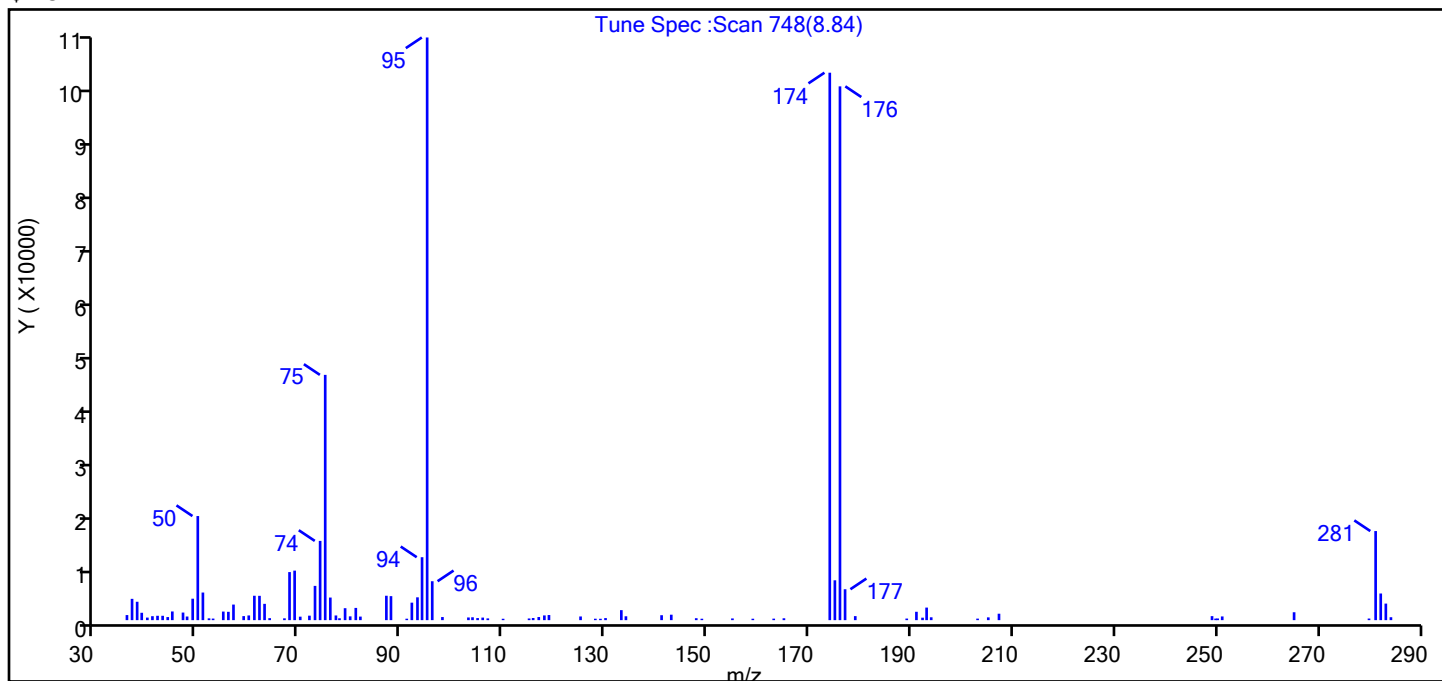
Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.9
75	30 to 60% of m/z 95	42.1
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	94.0
175	5 to 9% of m/z 174	6.8 (7.3)
176	Greater than 95% but less than 101% of m/z 174	91.6 (97.5)
177	5 to 9% of m/z 176	5.3 (5.8)

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003245a.D\AQ_VMS13_8260.rslts
Injection Date: 07-Jul-2023 23:31:57
Spectrum: Tune Spec :Scan 748(8.84)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	917	64.00	360	103.00	484	174.00	99080
37.00	3855	67.00	329	104.00	518	175.00	7214
38.00	3326	68.00	8697	105.00	375	176.00	96608
39.00	1333	69.00	8962	106.00	462	177.00	5593
40.00	462	70.00	630	107.00	317	179.00	728
41.00	715	72.00	810	110.00	250	189.00	287
42.00	789	73.00	6200	115.00	302	191.00	1514
43.00	788	74.00	14342	116.00	387	192.00	446
44.00	556	75.00	44392	117.00	565	193.00	2273
45.00	1571	76.00	4089	118.00	856	194.00	517
47.00	1373	77.00	847	119.00	925	203.00	275
48.00	658	78.00	339	125.00	666	205.00	502
49.00	3881	79.00	2163	128.00	258	207.00	1164
50.00	18840	80.00	686	129.00	250	249.00	726
51.00	4997	81.00	2213	130.00	373	250.00	281
52.00	325	82.00	644	133.00	1810	250.00	301
53.00	284	87.00	4416	134.00	702	251.00	670
55.00	1553	88.00	4344	141.00	894	265.00	1430
56.00	1508	91.00	260	143.00	985	280.00	290
57.00	2819	92.00	3165	148.00	350	281.00	16123
59.00	730	93.00	4130	149.00	257	282.00	4822
60.00	850	94.00	11390	155.00	309	283.00	2995
61.00	4414	95.00	105456	159.00	257	284.00	529
62.00	4401	96.00	7042	163.00	272		
63.00	2950	98.00	560	165.00	338		

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003245a.D

Injection Date: 07-Jul-2023 23:31:57

Instrument ID: VMS_MS13

Lims ID: BFB

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

1

Injection Vol: 5.0 mL

Dil. Factor:

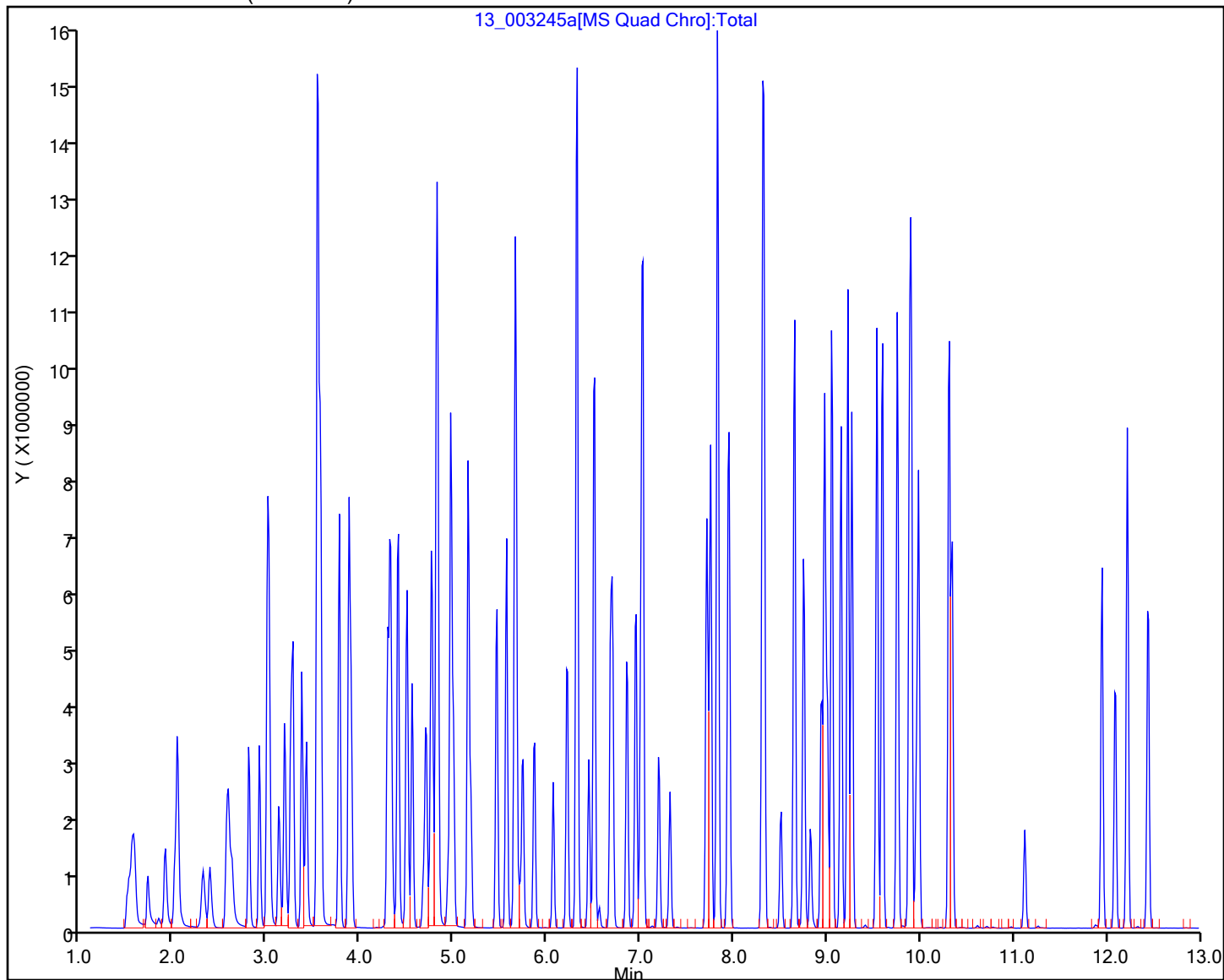
1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003255.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 10-Jul-2023 21:45:38 ALS Bottle#: 0 Worklist Smp#: 34
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 280-0123341-034
 Operator ID: ccf Instrument ID: VMS_MS13
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 10-Jul-2023 23:58:47 Calib Date: 08-Jul-2023 02:29:25
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003253.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1625

First Level Reviewer: AK2J

Date: 10-Jul-2023 23:53:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1685035	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	405057	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.958	9.958	0.000	96	659211	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.673	0.000	93	429602	50.0	51.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	523295	50.0	51.3	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1750093	50.0	52.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	609873	50.0	48.6	
\$ 8 BFB	95	8.818	8.818	0.000	84	609873	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003255.D

Injection Date: 10-Jul-2023 21:45:38

Instrument ID: VMS_MS13

Lims ID: BFB

Client ID:

Operator ID: ccf

ALS Bottle#: 0 Worklist Smp#: 34

Injection Vol: 5.0 mL

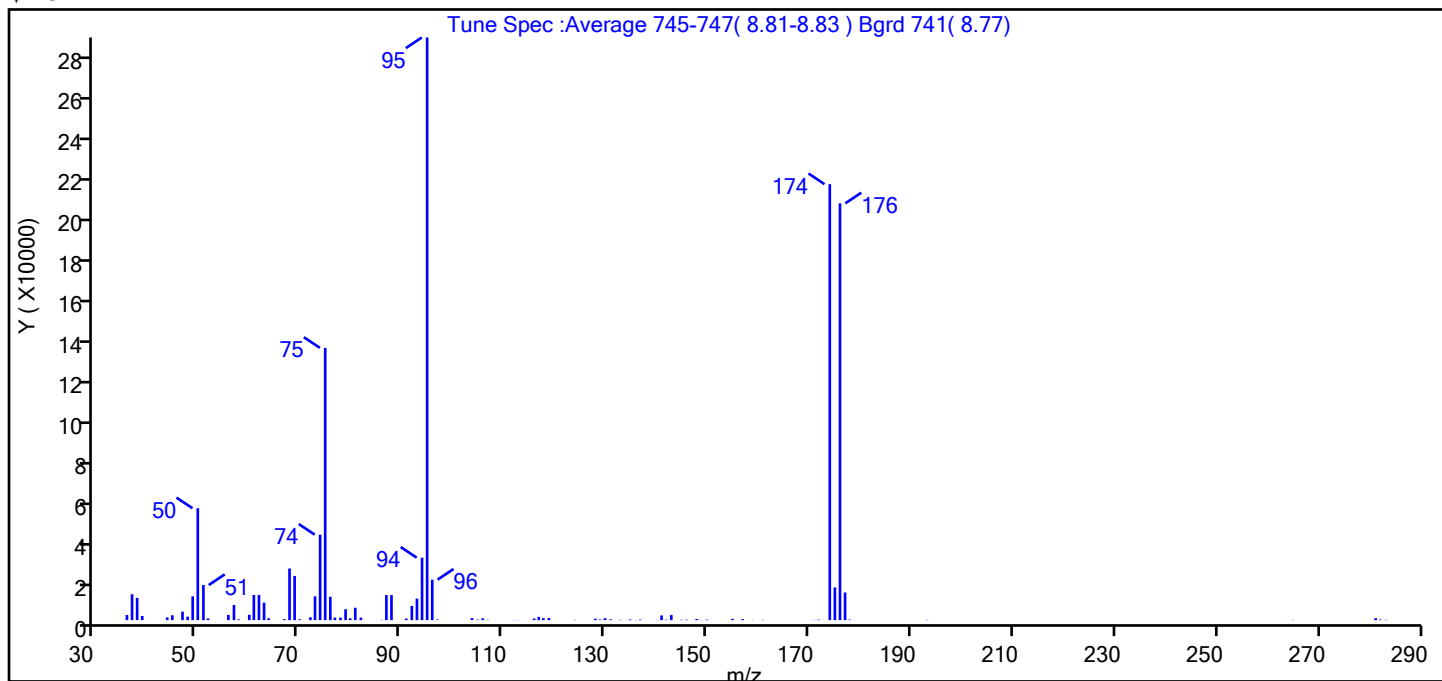
Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.2
75	30 to 60% of m/z 95	46.7
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	74.8
175	5 to 9% of m/z 174	5.6 (7.5)
176	Greater than 95% but less than 101% of m/z 174	71.5 (95.6)
177	5 to 9% of m/z 176	4.8 (6.6)

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003255.D\AQ_VMS13_8260.rsl\tsps
Injection Date: 10-Jul-2023 21:45:38
Spectrum: Tune Spec :Average 745-747(8.81-8.83) Bgrd 741(8.77)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2504	70.00	425	105.00	268	146.00	259
37.00	12609	72.00	1400	106.00	888	148.00	563
38.00	10841	73.00	11595	107.00	161	149.00	91
39.00	2029	74.00	41576	112.00	86	150.00	275
44.00	1368	75.00	132480	113.00	95	155.00	617
45.00	2389	76.00	11366	116.00	770	157.00	507
47.00	4149	77.00	1242	117.00	1574	159.00	98
48.00	1678	78.00	1219	118.00	954	161.00	128
49.00	11577	79.00	5319	119.00	1053	171.00	112
50.00	54456	80.00	880	124.00	124	172.00	253
51.00	17088	81.00	6045	128.00	721	174.00	212160
52.00	834	82.00	1226	129.00	327	175.00	15956
56.00	2531	86.00	138	130.00	948	176.00	202816
57.00	7384	87.00	12205	131.00	388	177.00	13476
58.00	372	88.00	12207	133.00	179	178.00	239
60.00	2635	91.00	792	135.00	342	193.00	148
61.00	12277	92.00	6919	136.00	90	265.00	105
62.00	12257	93.00	10496	137.00	288	281.00	977
63.00	8522	94.00	30392	140.00	102	282.00	314
64.00	914	95.00	283520	141.00	2287	283.00	186
67.00	526	96.00	19712	142.00	236		
68.00	25136	97.00	327	143.00	2462		
69.00	21496	104.00	1022	145.00	175		

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230707-123341.b\VMS13_003255.D

Injection Date: 10-Jul-2023 21:45:38

Instrument ID: VMS_MS13

Lims ID: BFB

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

34

Injection Vol: 5.0 mL

Dil. Factor:

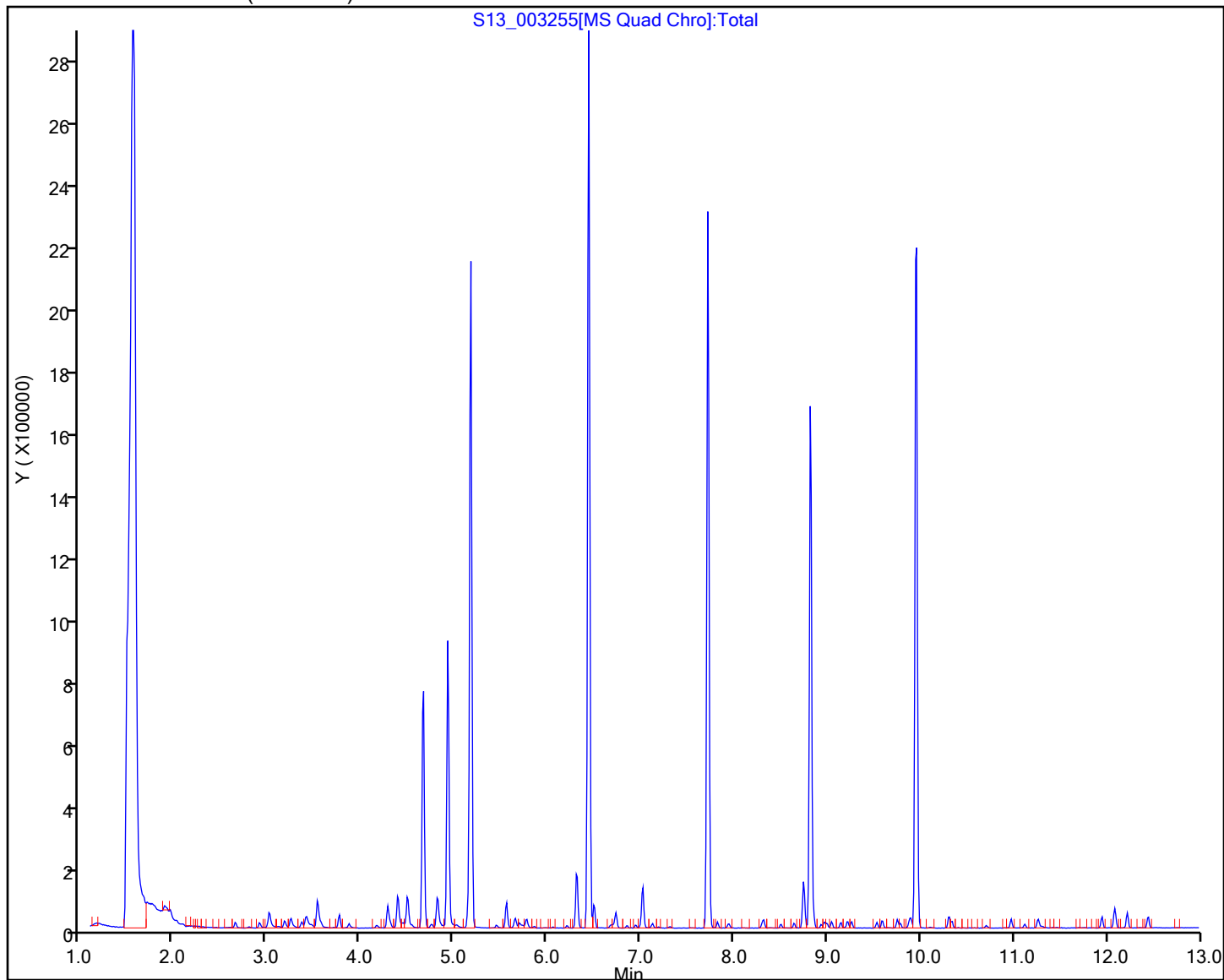
1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003257.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 10-Jul-2023 22:39:35 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 280-0123383-001
 Operator ID: ccf Instrument ID: VMS_MS13
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 13-Jul-2023 09:39:39 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1688

First Level Reviewer: RWB2

Date: 13-Jul-2023 09:39:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	8.818	8.818	0.000	84	548903	NR	NR	a
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

Reagents:

mv-Cent BFB_00005

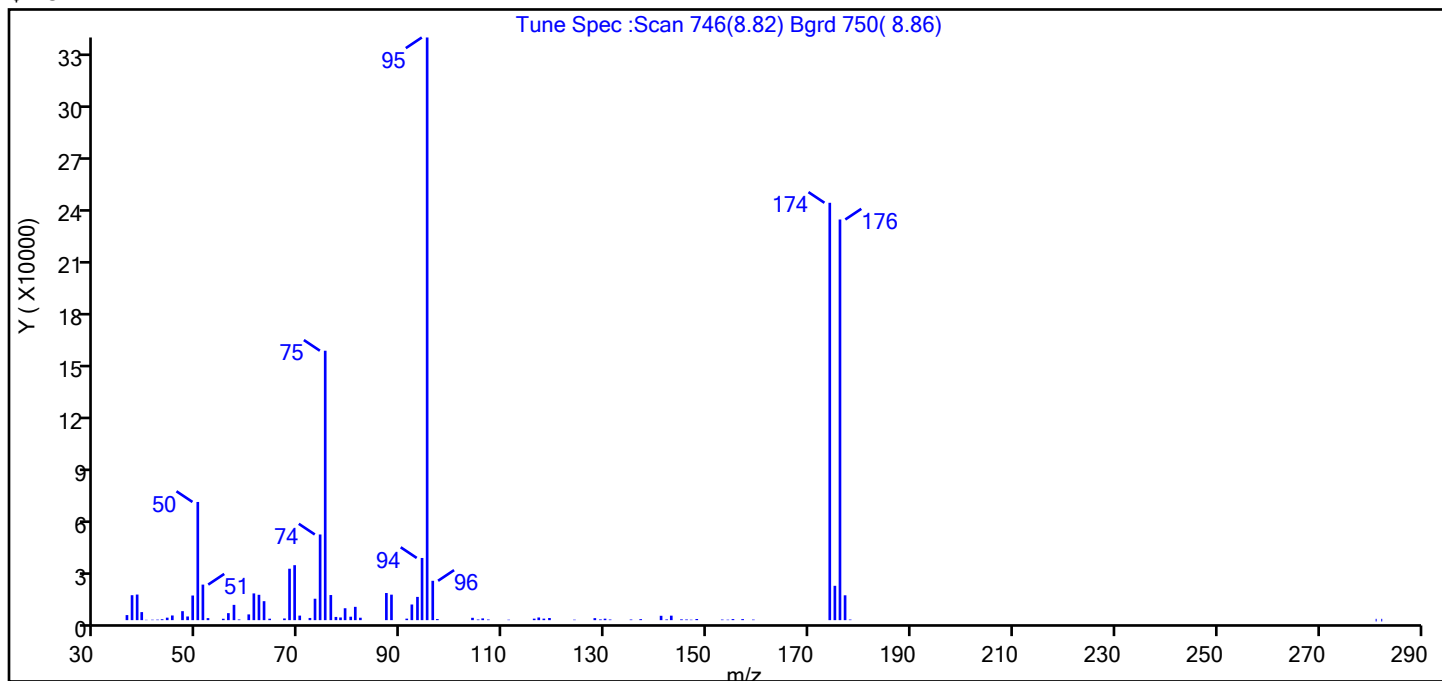
Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003257.D
Injection Date: 10-Jul-2023 22:39:35 Instrument ID: VMS_MS13
Lims ID: BFB
Client ID:
Operator ID: ccf ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.3
75	30 to 60% of m/z 95	46.2
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	71.6
175	5 to 9% of m/z 174	5.9 (8.2)
176	Greater than 95% but less than 101% of m/z 174	68.8 (96.0)
177	5 to 9% of m/z 176	4.3 (6.2)

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003257.D\AQ_VMS13_8260.rsl\sp
Injection Date: 10-Jul-2023 22:39:35
Spectrum: Tune Spec :Scan 746(8.82) Bgrd 750(8.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2921	61.00	15464	91.00	865	135.00	361
37.00	14429	62.00	14663	92.00	9049	137.00	576
38.00	14804	63.00	10972	93.00	13446	141.00	2514
39.00	4652	64.00	842	94.00	35968	142.00	413
40.00	190	67.00	974	95.00	337024	143.00	2594
41.00	251	68.00	29744	96.00	22760	145.00	451
42.00	293	69.00	31792	97.00	615	146.00	387
43.00	522	70.00	2624	104.00	1352	147.00	250
44.00	1435	72.00	1267	105.00	367	148.00	653
45.00	2704	73.00	12386	106.00	1013	153.00	332
47.00	5189	74.00	49552	107.00	364	154.00	263
48.00	2129	75.00	155840	111.00	254	155.00	610
49.00	14243	76.00	14522	116.00	855	157.00	587
50.00	68360	77.00	1855	117.00	1538	159.00	314
51.00	20560	78.00	1549	118.00	877	174.00	241408
52.00	1179	79.00	6888	119.00	1234	175.00	19856
55.00	804	80.00	1991	124.00	265	176.00	231744
56.00	4050	81.00	7693	128.00	1155	177.00	14368
57.00	8838	82.00	1399	129.00	433	178.00	336
58.00	404	87.00	15688	130.00	848	281.00	0
60.00	3324	88.00	14742	131.00	365	282.00	0

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003257.D

Injection Date: 10-Jul-2023 22:39:35

Instrument ID: VMS_MS13

Lims ID: BFB

Client ID:

Operator ID: ccf

ALS Bottle#:

0

Worklist Smp#:

1

Injection Vol: 5.0 mL

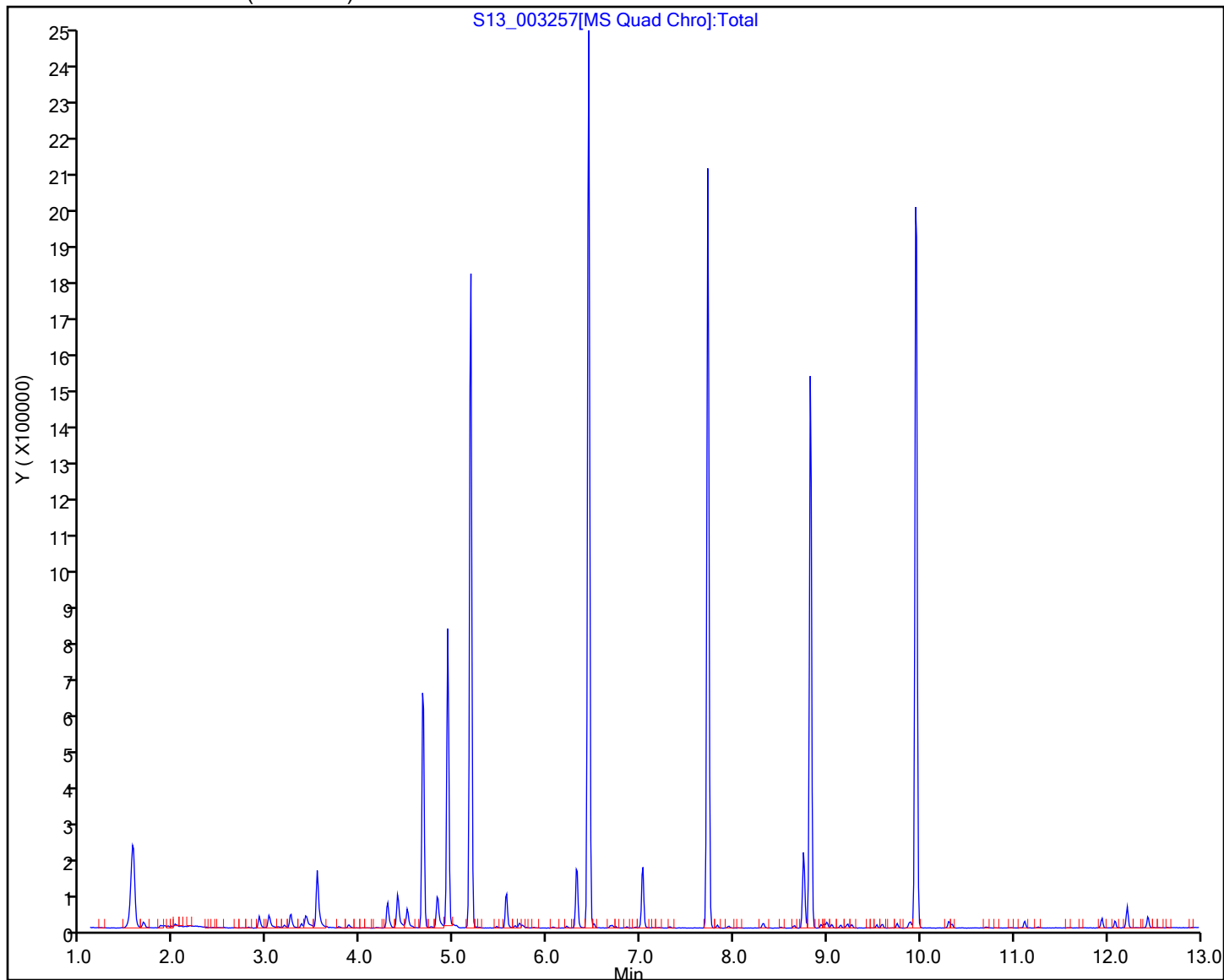
Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004047.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 01-Aug-2023 08:14:00 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Operator ID: COULTER Instrument ID: VMS_MS13
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 13:07:39 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1684

First Level Reviewer: NNS5

Date: 01-Aug-2023 09:04:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	8.818	8.818	0.000	85	459065	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

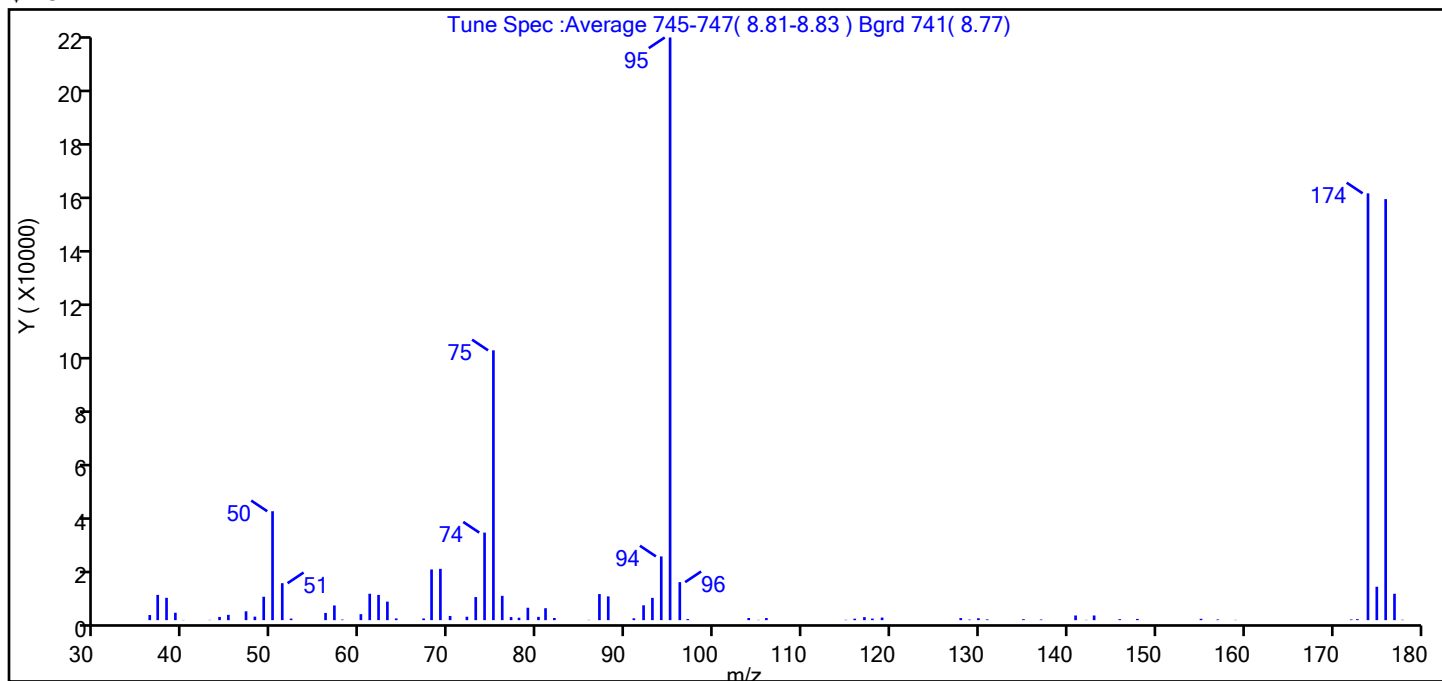
Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004047.D
Injection Date: 01-Aug-2023 08:14:00 Instrument ID: VMS_MS13
Lims ID: BFB
Client ID:
Operator ID: COULTER ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.7
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	73.2
175	5 to 9% of m/z 174	5.7 (7.8)
176	Greater than 95% but less than 101% of m/z 174	72.3 (98.7)
177	5 to 9% of m/z 176	4.5 (6.3)

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\MS13_004047.D\AQ_VMS13_8260.rsl\sp
 Injection Date: 01-Aug-2023 08:14:00
 Spectrum: Tune Spec :Average 745-747(8.81-8.83) Bgrd 741(8.77)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 76

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1872	62.00	9252	87.00	9561	130.00	698
37.00	9255	63.00	6794	88.00	8706	131.00	277
38.00	8184	64.00	627	91.00	676	135.00	347
39.00	2714	67.00	626	92.00	5439	137.00	235
40.00	83	68.00	18584	93.00	8163	141.00	1706
43.00	97	69.00	18808	94.00	23368	142.00	98
44.00	1180	70.00	1530	95.00	213632	143.00	1710
45.00	1939	72.00	1252	96.00	13933	146.00	350
47.00	3245	73.00	8462	97.00	396	148.00	445
48.00	1281	74.00	32096	104.00	782	155.00	491
49.00	8582	75.00	98920	105.00	96	157.00	256
50.00	39928	76.00	8905	106.00	773	159.00	93
51.00	13549	77.00	1116	115.00	129	172.00	248
52.00	580	78.00	889	116.00	537	173.00	369
56.00	2646	79.00	4547	117.00	1102	174.00	156480
57.00	5384	80.00	1197	118.00	569	175.00	12251
58.00	213	81.00	4371	119.00	945	176.00	154368
60.00	2194	82.00	788	128.00	764	177.00	9671
61.00	9675	86.00	96	129.00	202	178.00	144

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004047.D

Injection Date: 01-Aug-2023 08:14:00

Instrument ID: VMS_MS13

Lims ID: BFB

Client ID:

Operator ID: COULTER

ALS Bottle#: 0

Worklist Smp#: 1

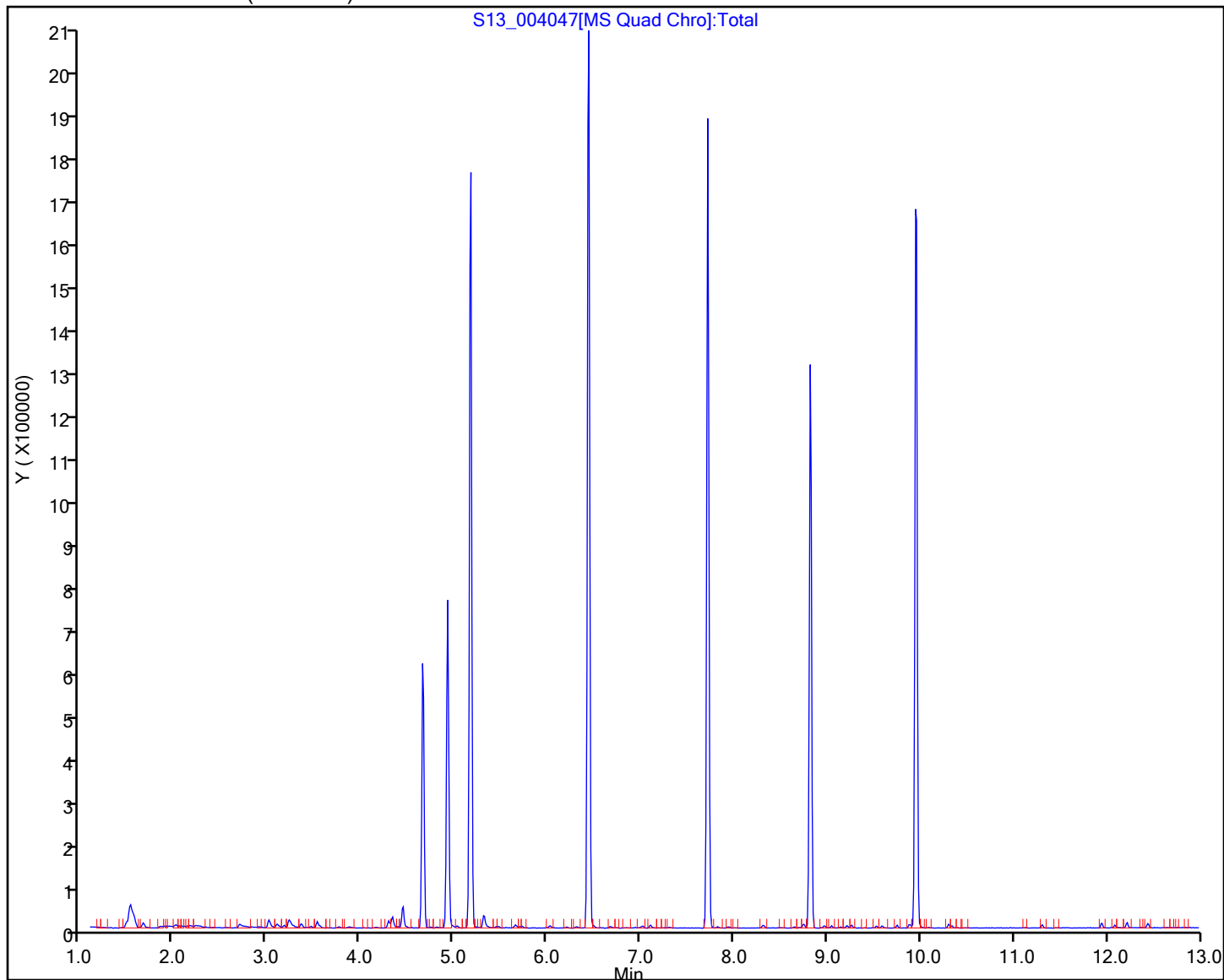
Injection Vol: 5.0 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\R2068.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 20-Jun-2018 23:30:30 ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Operator ID: LINESJ Instrument ID: VMS_R1
 Method: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 21-Jun-2018 19:47:37 Calib Date: 21-Jun-2018 09:10:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\R2090.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX0303

First Level Reviewer: linesj

Date: 21-Jun-2018 17:56:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 4 BFB	95	4.207	4.207	0.000	0	133407	NR	NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

MV-BFB_00026

Amount Added: 1.00

Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\R2068.D

Injection Date: 20-Jun-2018 23:30:30

Instrument ID: VMS_R1

Lims ID: BFB

Client ID:

Operator ID: LINESJ

ALS Bottle#: 100

Worklist Smp#: 1

Injection Vol: 1.0 uL

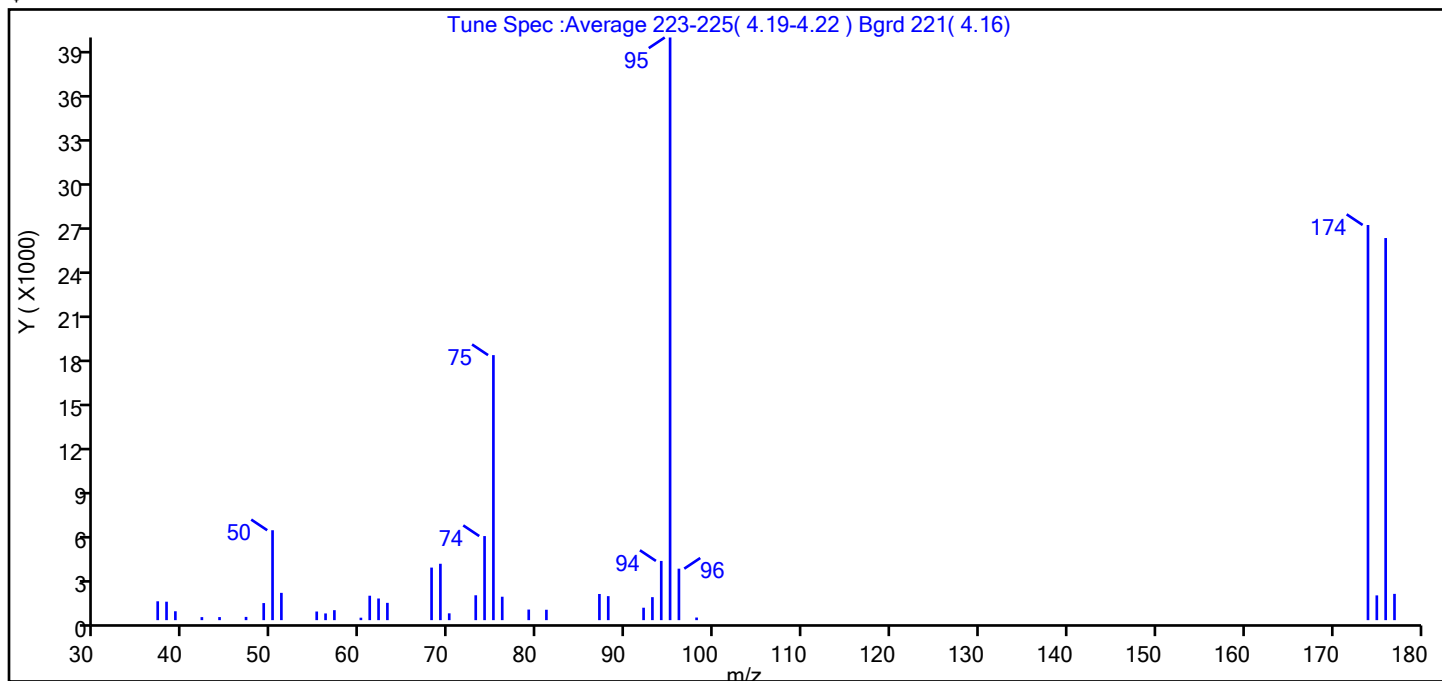
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.4
75	30 to 60% of m/z 95	45.5
96	5 to 9% of m/z 95	8.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	67.8
175	5 to 9% of m/z 174	4.2 (6.3)
176	Greater than 95% but less than 101% of m/z 174	65.6 (96.7)
177	5 to 9% of m/z 176	4.5 (6.9)

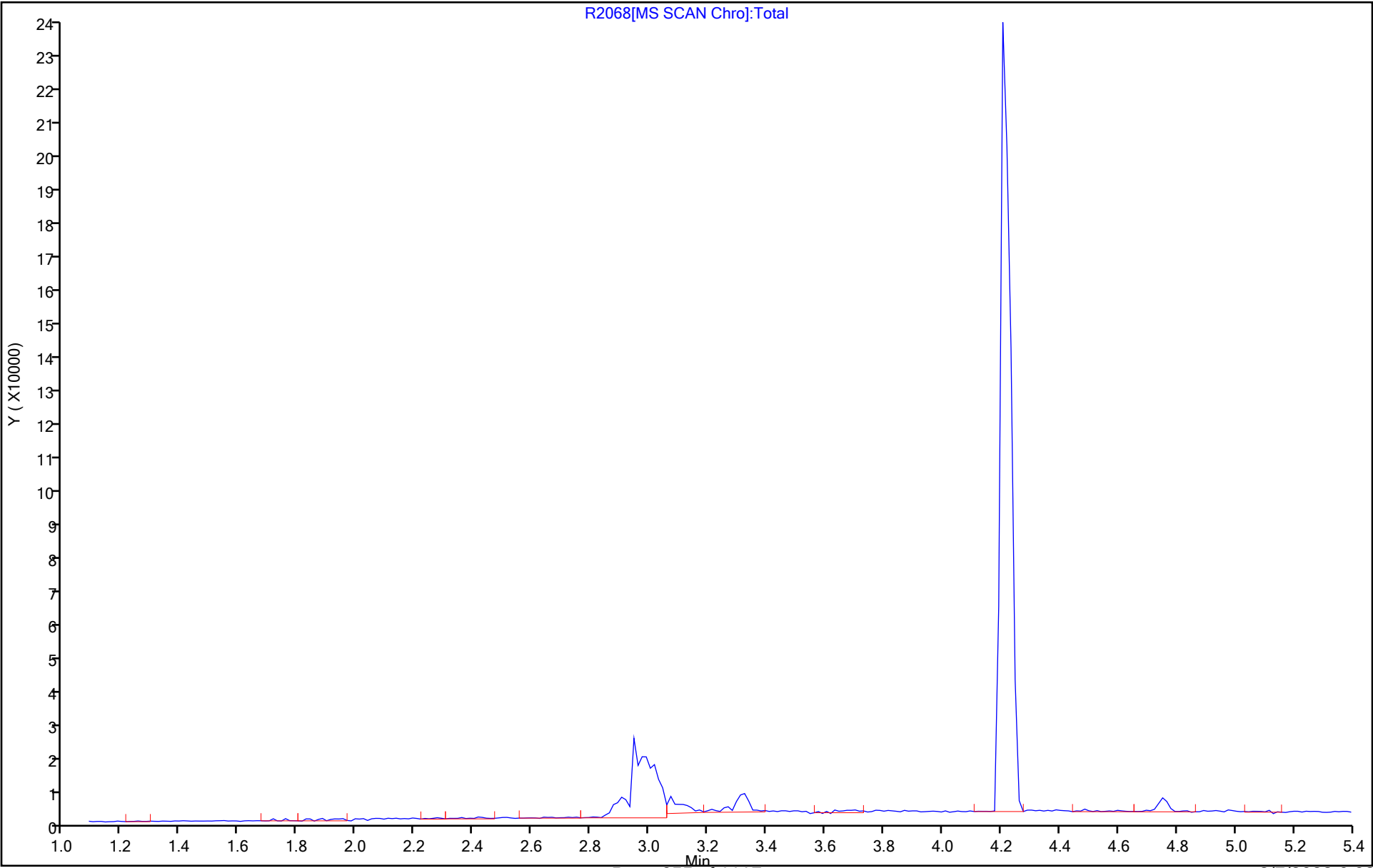
Data File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\I2068.D\AQ_VMSR1_8260.rslt\spectra.d
Injection Date: 20-Jun-2018 23:30:30
Spectrum: Tune Spec :Average 223-225(4.19-4.22) Bgrd 221(4.16)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 37

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1285	56.00	457	74.00	5728	95.00	39696
38.00	1257	57.00	679	75.00	18056	96.00	3507
39.00	605	60.00	167	76.00	1595	98.00	178
42.00	206	61.00	1664	79.00	721	174.00	26920
44.00	209	62.00	1475	81.00	708	175.00	1687
47.00	221	63.00	1178	87.00	1782	176.00	26032
49.00	1163	68.00	3581	88.00	1635	177.00	1790
50.00	6125	69.00	3841	92.00	847		
51.00	1859	70.00	464	93.00	1566		
55.00	588	73.00	1694	94.00	4034		

TestAmerica Denver
Data File: \\ChromNA\Denver\ChromData\VMS_R1\20180621-71198.b\R2068.D
Injection Date: 20-Jun-2018 23:30:30 Instrument ID: VMS_R1
Lims ID: BFB
Client ID:
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm)

Operator ID: LINESJ
Worklist Smp#: 1
ALS Bottle#: 100

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3107.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 29-Mar-2022 15:57:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 280-0109642-001
 Operator ID: peppinga Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 21:11:04 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 16:53:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 9 BFB	95	8.500	8.500	0.000	89	723698	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00004

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3107.D

Injection Date: 29-Mar-2022 15:57:30

Instrument ID: VMS_R1

Lims ID: BFB

Client ID:

Operator ID: peppinga

ALS Bottle#: 1

Worklist Smp#: 1

Injection Vol: 2.0 uL

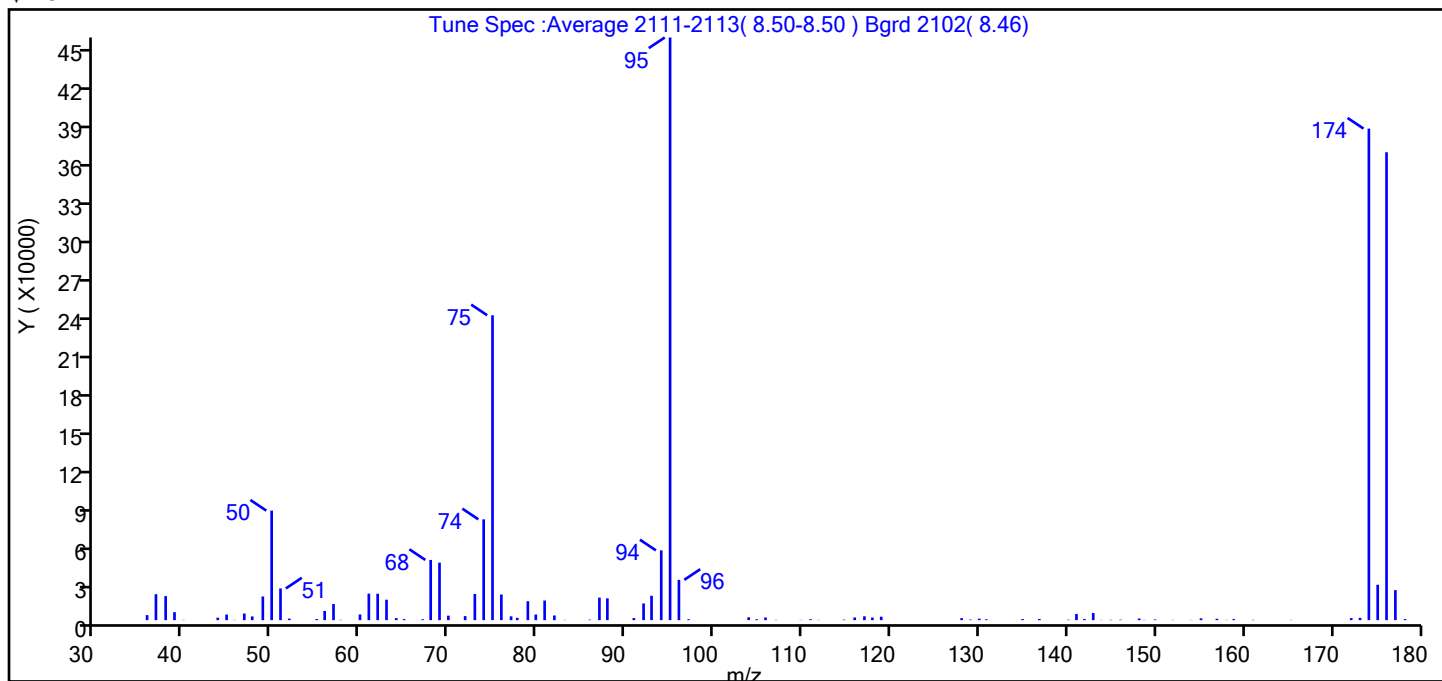
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.8
75	30 to 60% of m/z 95	52.3
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	84.4
175	5 to 9% of m/z 174	6.1 (7.2)
176	Greater than 95% but less than 101% of m/z 174	80.3 (95.2)
177	5 to 9% of m/z 176	5.2 (6.4)

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3107.D\AQ_VMSR1_8260.rslt\spectra.d
Injection Date: 29-Mar-2022 15:57:30
Spectrum: Tune Spec :Average 2111-2113(8.50-8.50) Bgrd 2102(8.46)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3900	67.00	686	96.00	31200	144.00	175
37.00	20064	68.00	46624	97.00	685	145.00	294
38.00	18616	69.00	44528	104.00	2214	146.00	362
39.00	6193	70.00	3461	105.00	720	148.00	1285
40.00	196	72.00	3116	106.00	2053	149.00	186
44.00	1911	73.00	20288	107.00	237	150.00	526
45.00	4317	74.00	78080	110.00	187	152.00	171
46.00	182	75.00	236160	111.00	737	154.00	175
47.00	5121	76.00	19864	112.00	168	155.00	1416
48.00	2872	77.00	2951	115.00	405	157.00	1066
49.00	18312	78.00	1795	116.00	2077	158.00	181
50.00	84832	79.00	14652	117.00	2984	159.00	824
51.00	24552	80.00	4353	118.00	2010	161.00	270
52.00	1138	81.00	15193	119.00	2679	165.00	211
55.00	858	82.00	3630	128.00	1550	172.00	1563
56.00	7149	83.00	179	129.00	450	173.00	1791
57.00	12487	86.00	419	130.00	1150	174.00	380736
58.00	241	87.00	17456	131.00	653	175.00	27408
60.00	4404	88.00	16880	135.00	841	176.00	362432
61.00	20528	91.00	1634	137.00	906	177.00	23248
62.00	20456	92.00	12907	140.00	368	178.00	824
63.00	15832	93.00	18872	141.00	4798		
64.00	1592	94.00	54032	142.00	860		
65.00	824	95.00	451328	143.00	5542		

Report Date: 29-Mar-2022 21:11:05

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3107.D

Injection Date: 29-Mar-2022 15:57:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

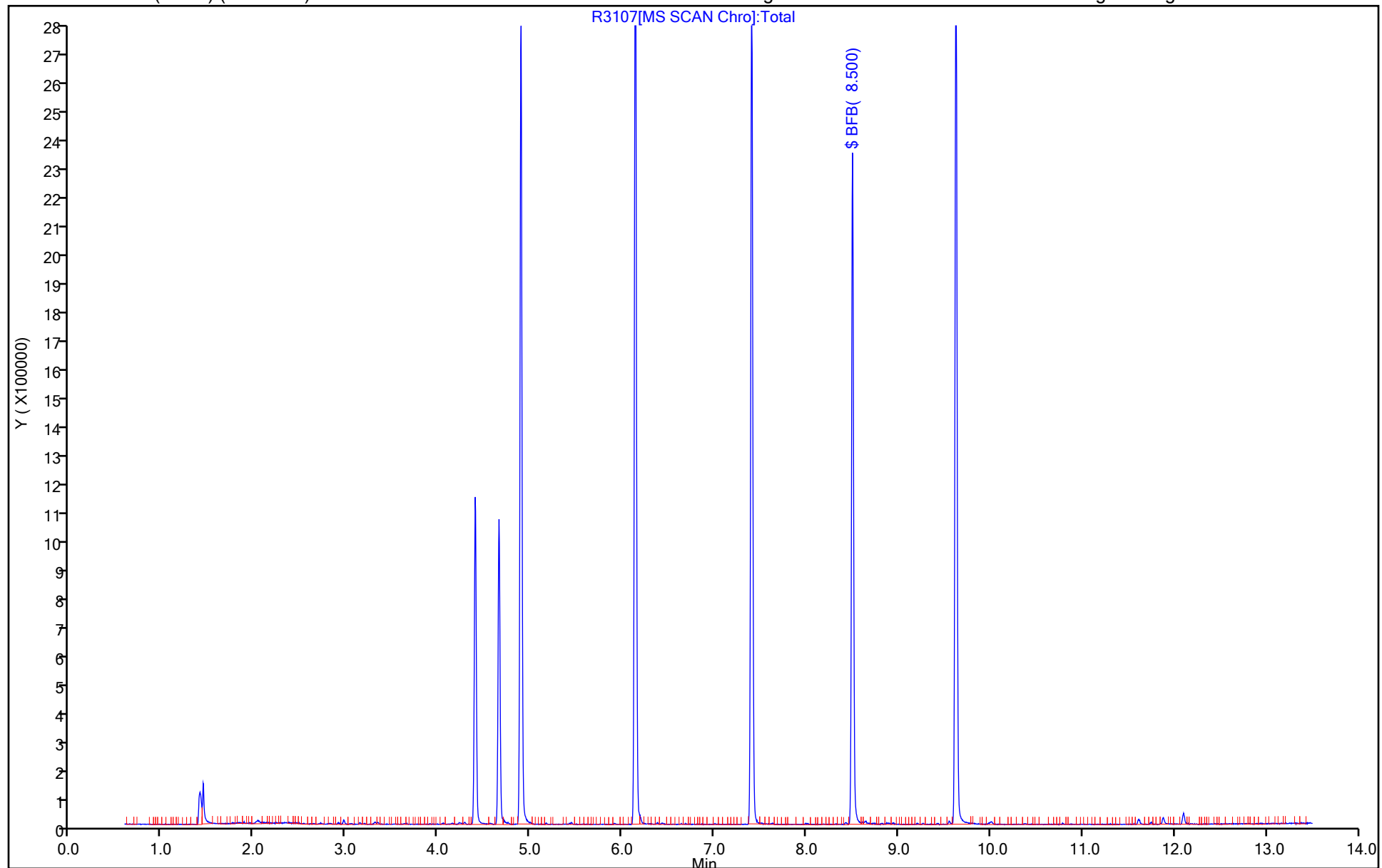
ALS Bottle#: 1

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/7/2023 6:03

PM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6567.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Jul-2023 15:30:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Operator ID: bustillose Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 31-Jul-2023 09:03:57 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1684

First Level Reviewer: LP8K

Date: 30-Jul-2023 16:51:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	3.389	3.389	0.000	82	707114	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6567.D

Injection Date: 30-Jul-2023 15:30:30

Instrument ID: VMS_R1

Lims ID: BFB

Client ID:

Operator ID: bustillose

ALS Bottle#: 100

Worklist Smp#: 1

Injection Vol: 2.0 uL

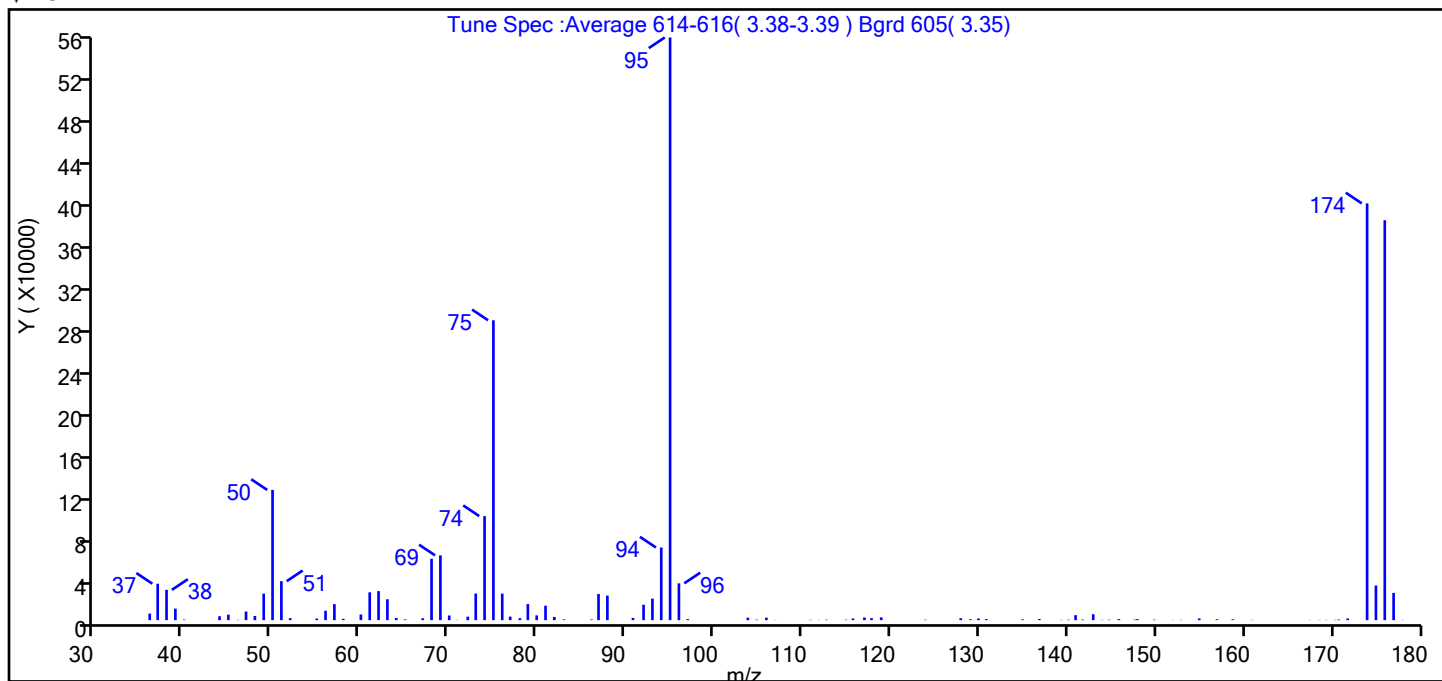
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.3
75	30 to 60% of m/z 95	51.5
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	71.5
175	5 to 9% of m/z 174	5.9 (8.3)
176	Greater than 95% but less than 101% of m/z 174	68.6 (96.0)
177	5 to 9% of m/z 176	4.7 (6.8)

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6567.D\AQ_VMSR1_8260.rsl\spectra.d
Injection Date: 30-Jul-2023 15:30:30
Spectrum: Tune Spec :Average 614-616(3.38-3.39) Bgrd 605(3.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6317	68.00	58968	97.00	1009	144.00	223
37.00	35008	69.00	62256	104.00	2377	145.00	419
38.00	29096	70.00	4490	105.00	519	146.00	1001
39.00	11083	71.00	210	106.00	2388	148.00	452
40.00	509	72.00	3331	107.00	170	148.00	970
44.00	3761	73.00	25576	111.00	349	150.00	477
45.00	5297	74.00	99984	112.00	184	152.00	169
46.00	311	75.00	288192	113.00	446	153.00	234
47.00	8287	76.00	25472	115.00	444	155.00	1664
48.00	4030	77.00	3400	116.00	1629	157.00	850
49.00	25480	78.00	1899	117.00	2534	159.00	799
50.00	125128	79.00	15427	118.00	1935	161.00	217
51.00	37464	80.00	4577	119.00	2663	167.00	198
52.00	1905	81.00	13879	124.00	415	168.00	221
55.00	1550	82.00	3089	128.00	1865	169.00	244
56.00	9049	83.00	717	129.00	872	170.00	313
57.00	15384	86.00	623	130.00	1597	171.00	591
58.00	1254	87.00	25088	131.00	1028	172.00	1610
60.00	5468	88.00	23576	135.00	740	174.00	400512
61.00	26752	91.00	2134	137.00	1088	175.00	33272
62.00	27928	92.00	14799	139.00	218	176.00	384320
63.00	20056	93.00	20696	140.00	431	177.00	26184
64.00	2090	94.00	69816	141.00	4788	178.00	200
65.00	670	95.00	559936	142.00	589		
67.00	1808	96.00	35376	143.00	5666		

Report Date: 31-Jul-2023 09:03:57

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6567.D

Injection Date: 30-Jul-2023 15:30:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

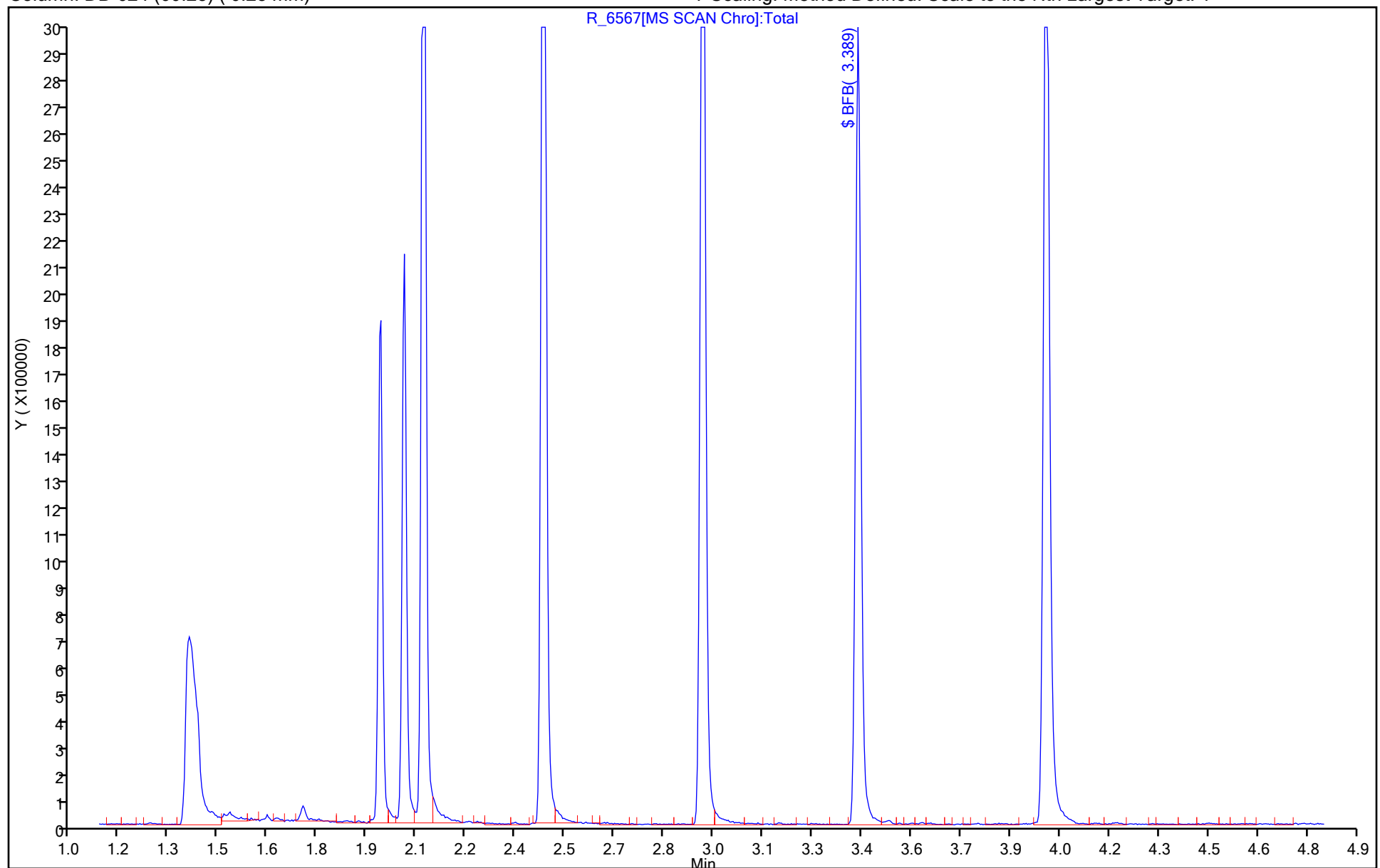
ALS Bottle#: 100

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6730a.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 02-Aug-2023 16:22:30 ALS Bottle#: 28 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124100-033
 Operator ID: wickhamt Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 02-Aug-2023 20:22:40 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1636

First Level Reviewer: LP8K

Date: 02-Aug-2023 16:48:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	8.414	8.414	0.000	82	706816	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6730a.D

Injection Date: 02-Aug-2023 16:22:30

Instrument ID: VMS_R1

Lims ID: BFB

Client ID:

Operator ID: wickhamt

ALS Bottle#:

28

Worklist Smp#:

1

Injection Vol: 2.0 uL

Dil. Factor:

1.0000

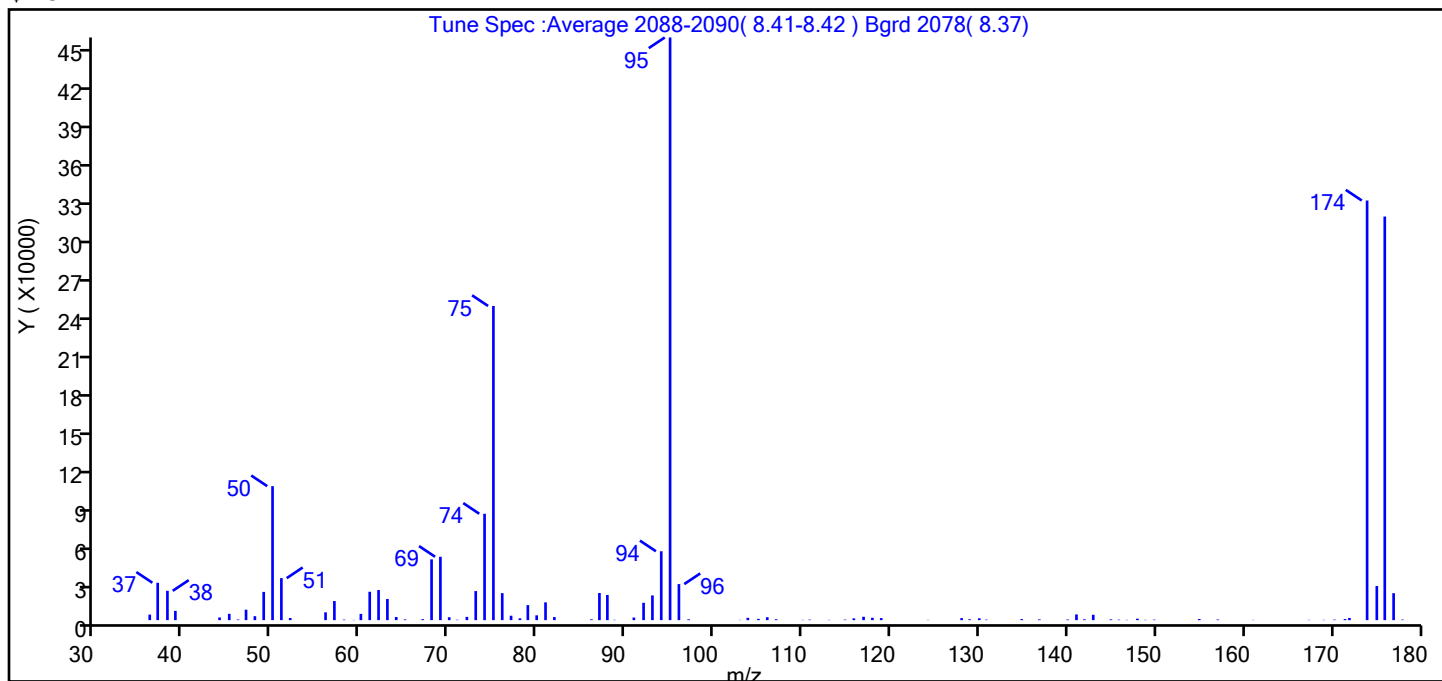
Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.0
75	30 to 60% of m/z 95	53.9
96	5 to 9% of m/z 95	6.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	72.0
175	5 to 9% of m/z 174	5.9 (8.1)
176	Greater than 95% but less than 101% of m/z 174	69.3 (96.2)
177	5 to 9% of m/z 176	4.6 (6.7)

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6730a.D\AQ_VMSR1_8260.rsl\spectra.d
Injection Date: 02-Aug-2023 16:22:30
Spectrum: Tune Spec :Average 2088-2090(8.41-8.42) Bgrd 2078(8.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4297	68.00	47072	96.00	27928	142.00	669
37.00	28960	69.00	49088	97.00	639	143.00	4149
38.00	22712	70.00	2245	103.00	183	145.00	607
39.00	7188	71.00	318	104.00	1776	146.00	373
44.00	2092	72.00	2532	105.00	989	147.00	230
45.00	4894	73.00	22520	106.00	2264	148.00	1113
46.00	495	74.00	82400	107.00	712	149.00	247
47.00	8101	75.00	243328	110.00	198	150.00	401
48.00	3053	76.00	20920	111.00	415	155.00	890
49.00	21880	77.00	3429	113.00	231	157.00	489
50.00	103776	78.00	1418	115.00	422	161.00	190
51.00	32528	79.00	11640	116.00	1386	167.00	224
52.00	1660	80.00	3724	117.00	2621	169.00	228
56.00	6050	81.00	13783	118.00	1842	170.00	415
57.00	14791	82.00	2394	119.00	1574	171.00	854
58.00	422	86.00	630	124.00	193	172.00	1715
59.00	182	87.00	21040	128.00	1564	174.00	324992
60.00	4832	88.00	19496	129.00	682	175.00	26432
61.00	21984	89.00	269	130.00	1414	176.00	312576
62.00	23320	91.00	2015	131.00	399	177.00	20888
63.00	16371	92.00	13448	135.00	802	178.00	423
64.00	2457	93.00	19144	137.00	577		
65.00	554	94.00	53344	140.00	519		
67.00	759	95.00	451264	141.00	4424		

Report Date: 02-Aug-2023 20:22:40

Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6730a.D

Injection Date: 02-Aug-2023 16:22:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

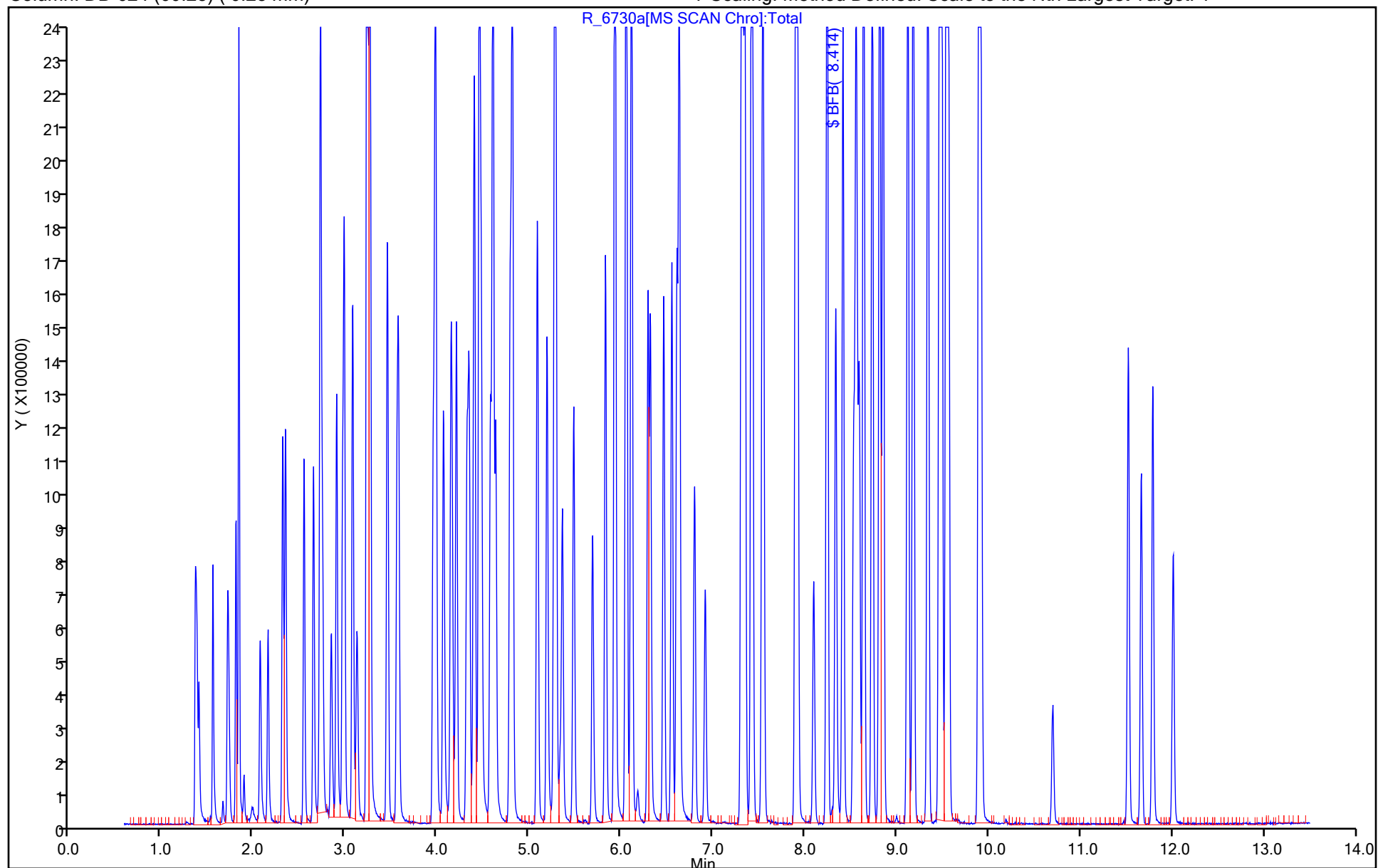
ALS Bottle#: 28

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787c.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 03-Aug-2023 16:12:30 ALS Bottle#: 29 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-033
 Operator ID: wickhamt Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:27:58 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 16:42:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	8.414	8.414	0.000	82	789115	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787c.D

Injection Date: 03-Aug-2023 16:12:30

Instrument ID: VMS_R1

Lims ID: BFB

Client ID:

Operator ID: wickhamt

ALS Bottle#:

29

Worklist Smp#:

1

Injection Vol: 2.0 uL

Dil. Factor:

1.0000

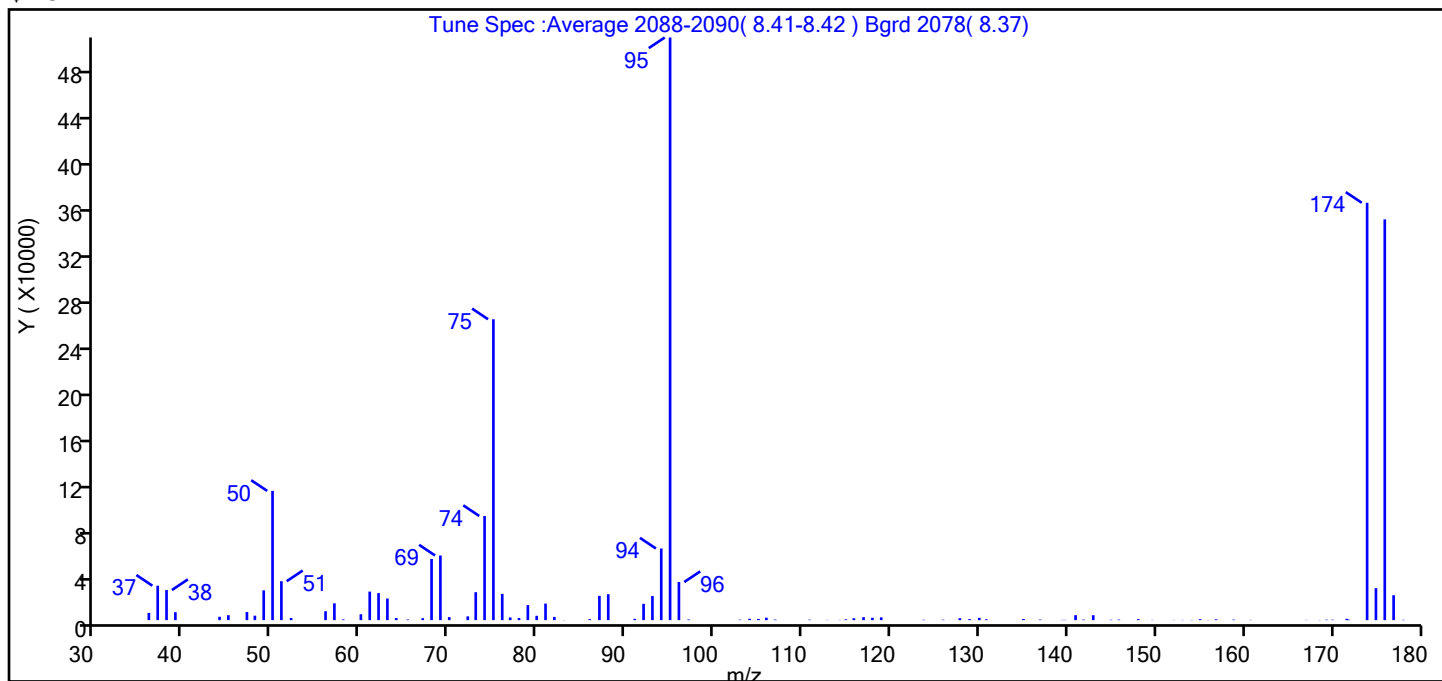
Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.2
75	30 to 60% of m/z 95	51.6
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	71.6
175	5 to 9% of m/z 174	5.5 (7.7)
176	Greater than 95% but less than 101% of m/z 174	68.8 (96.0)
177	5 to 9% of m/z 176	4.3 (6.2)

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\B_6787c.D\AQ_VMSR1_8260.rsl\spectra.d
Injection Date: 03-Aug-2023 16:12:30
Spectrum: Tune Spec :Average 2088-2090(8.41-8.42) Bgrd 2078(8.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6295	70.00	2591	104.00	1181	143.00	4257
37.00	29768	72.00	3267	105.00	1056	145.00	353
38.00	26008	73.00	24160	106.00	2125	146.00	491
39.00	6843	74.00	90024	107.00	492	148.00	851
44.00	2939	75.00	260032	111.00	436	150.00	184
45.00	4272	76.00	22720	113.00	184	152.00	173
47.00	6995	77.00	2335	114.00	182	153.00	172
48.00	3867	78.00	1825	115.00	670	154.00	166
49.00	25760	79.00	13025	116.00	1648	155.00	813
50.00	111704	80.00	3769	117.00	2543	156.00	169
51.00	33648	81.00	14311	118.00	2056	157.00	730
52.00	1885	82.00	2807	119.00	2417	159.00	465
56.00	7713	83.00	123	124.00	346	161.00	226
57.00	14543	86.00	870	126.00	402	167.00	188
58.00	631	87.00	21008	128.00	1638	168.00	167
60.00	5100	88.00	22416	129.00	874	169.00	407
61.00	24656	91.00	1123	130.00	1991	170.00	368
62.00	23360	92.00	14121	131.00	731	172.00	1165
63.00	18696	93.00	20824	135.00	986	172.00	444
64.00	1846	94.00	61912	137.00	488	174.00	360704
65.00	555	95.00	503552	139.00	195	175.00	27640
67.00	1675	96.00	32936	140.00	212	176.00	346368
68.00	52872	97.00	565	141.00	4302	177.00	21536
69.00	55880	103.00	410	142.00	465	178.00	319

Report Date: 04-Aug-2023 23:27:58

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787c.D

Injection Date: 03-Aug-2023 16:12:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

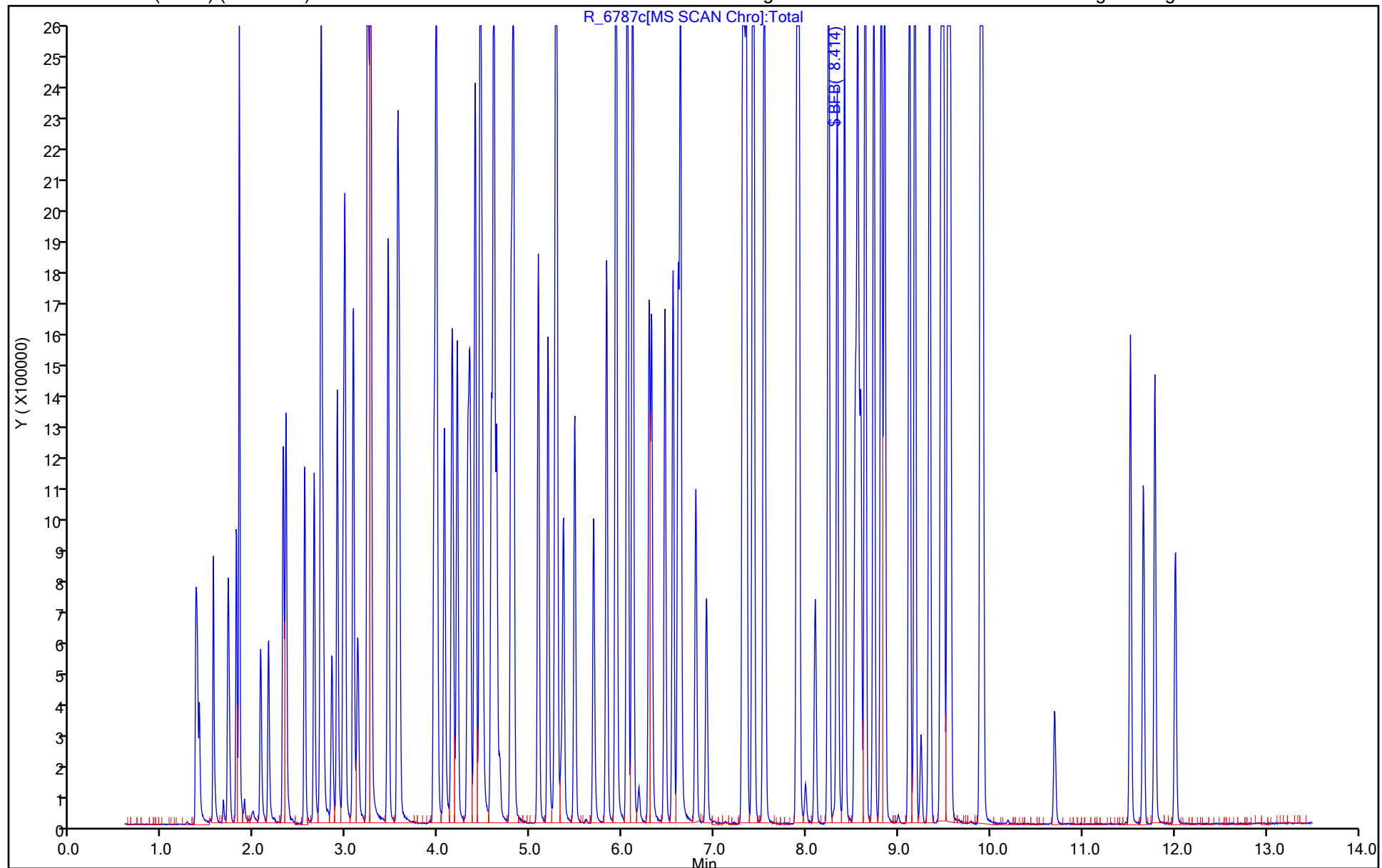
ALS Bottle#: 29

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621382/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS13_004055.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/01/2023 11:48</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621382</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621382/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS13_004055.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/01/2023 11:48</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621382</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-621382/9
Matrix: Water Lab File ID: MS13_004055.D
Analysis Method: 8260D Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/01/2023 11:48
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621382 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-127
460-00-4	4-Bromofluorobenzene (Surr)	98		78-120
2037-26-5	Toluene-d8 (Surr)	96		80-125
1868-53-7	Dibromofluoromethane (Surr)	92		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004055.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 01-Aug-2023 11:48:28 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Operator ID: COULTER Instrument ID: VMS_MS13
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 16:41:37 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1: Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1677

First Level Reviewer: J6NB

Date: 01-Aug-2023 16:41:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1363692	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	326835	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	96	520913	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.663	0.011	93	319157	50.0	45.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	400850	50.0	46.3	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	92	1322805	50.0	48.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	482434	50.0	49.2	
\$ 8 BFB	95	8.818	8.818	0.000	85	482434		NR	
9 Dichlorodifluoromethane	85		1.709					ND	
10 Chloromethane	50		1.895					ND	
11 Vinyl chloride	62		1.999					ND	
12 Bromomethane	94		2.310					ND	
13 Chloroethane	64		2.393					ND	
14 Dichlorofluoromethane	67		2.569					ND	
15 Trichlorofluoromethane	101		2.590					ND	
16 Ethanol	45		2.694					ND	
17 Propene oxide	58		2.738					ND	
18 Ethyl ether	59		2.797					ND	
19 Acrolein	56	2.921	2.911	0.010	45	1267		1.45	
20 1,1-Dichloroethene	96		2.994					ND	
22 1,1,2-Trichloro-1,2,2-trifluoro	151		3.015					ND	
21 Acetone	43		3.015					ND	7
23 Isopropyl alcohol	45		3.098					ND	
24 Iodomethane	142		3.118					ND	
25 Carbon disulfide	76	3.191	3.180	0.011	97	4041		0.2059	
26 Acetonitrile	41		3.232					ND	U
27 Methyl acetate	43		3.253					ND	
28 3-Chloro-1-propene	41		3.274					ND	U
29 Methylene Chloride	84		3.367					ND	7
30 2-Methyl-2-propanol	59		3.419					ND	
31 Acrylonitrile	53	3.543	3.533	0.010	86	3515		0.7440	
32 Methyl tert-butyl ether	73		3.554					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 trans-1,2-Dichloroethene	96		3.574					ND	
34 Hexane	57		3.771					ND	7
35 Vinyl acetate	43		3.875					ND	7
36 Isopropyl ether	87		3.885					ND	
37 1,1-Dichloroethane	63		3.896					ND	
38 2-Chloro-1,3-butadiene	53		3.947					ND	
39 Tert-butyl ethyl ether	59		4.155					ND	
40 2-Butanone (MEK)	43		4.289					ND	
41 Ethyl acetate	43		4.300					ND	U
42 cis-1,2-Dichloroethene	96		4.310					ND	
43 2,2-Dichloropropane	77		4.320					ND	
44 Propionitrile	54		4.331					ND	
45 sec-Butyl Alcohol	45		4.393					ND	
46 Methacrylonitrile	41		4.445					ND	
47 Chlorobromomethane	128		4.486					ND	
48 Tetrahydrofuran	42		4.497					ND	
49 Chloroform	83		4.548					ND	
50 1,1,1-Trichloroethane	97		4.693					ND	
51 Cyclohexane	56		4.756					ND	
52 1,1-Dichloropropene	75		4.807					ND	
53 Carbon tetrachloride	117		4.818					ND	
54 Isobutyl alcohol	41		4.818					ND	
56 Benzene	78		4.963					ND	7
57 1,2-Dichloroethane	62		4.994					ND	
55 n-Butanol	56		5.025					ND	
58 Tert-amyl methyl ether	73		5.025					ND	
59 n-Heptane	43		5.149					ND	
60 Trichloroethene	95		5.450					ND	
61 2-Pentanone	43		5.564					ND	
62 Methylcyclohexane	55		5.647					ND	
64 1,2-Dichloropropane	63		5.668					ND	
63 Methyl methacrylate	100		5.668					ND	
65 1,4-Dioxane	88		5.699					ND	
66 Dibromomethane	93		5.730					ND	
67 Dichlorobromomethane	83		5.854					ND	
68 2-Nitropropane	41		6.030					ND	
69 2-Chloroethyl vinyl ether	63		6.061					ND	
70 cis-1,3-Dichloropropene	75		6.207					ND	
71 4-Methyl-2-pentanone (MIBK)	43		6.310					ND	
72 Toluene	91		6.497					ND	
73 trans-1,3-Dichloropropene	75		6.673					ND	
74 Ethyl methacrylate	69		6.694					ND	
75 1,1,2-Trichloroethane	97		6.849					ND	
76 Tetrachloroethene	164		6.942					ND	
77 1,3-Dichloropropane	76		7.004					ND	
78 2-Hexanone	43		7.015					ND	
79 Chlorodibromomethane	129		7.191					ND	
80 Ethylene Dibromide	107		7.315					ND	
81 1-Chlorohexane	91		7.709					ND	U
82 Chlorobenzene	112		7.751					ND	
83 1,1,1,2-Tetrachloroethane	131		7.823					ND	
84 Ethylbenzene	106		7.823					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 m-Xylene & p-Xylene	106		7.937					ND	7
86 o-Xylene	106		8.300					ND	
87 Styrene	104		8.321					ND	
88 Bromoform	173		8.497					ND	
89 Isopropylbenzene	105		8.642					ND	7
90 cis-1,4-Dichloro-2-butene	53		8.694					ND	
91 Cyclohexanone	55		8.745					ND	U
92 1,1,2,2-Tetrachloroethane	83		8.932					ND	
93 Bromobenzene	156		8.963					ND	
94 trans-1,4-Dichloro-2-butene	53		8.973					ND	
95 1,2,3-Trichloropropane	110		8.994					ND	
96 N-Propylbenzene	120		9.046					ND	
97 2-Chlorotoluene	126		9.139					ND	
98 1,3,5-Trimethylbenzene	105	9.212	9.222	-0.010	90	2699		0.1103	
99 4-Chlorotoluene	126	9.264	9.264	0.000	90	1040		0.1418	
100 Pentachloroethane	167		9.479					ND	
101 tert-Butylbenzene	119		9.533					ND	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	90	2620		0.1041	
103 sec-Butylbenzene	134		9.751					ND	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	90	2701		0.1872	
105 4-Isopropyltoluene	119		9.896					ND	
106 1,4-Dichlorobenzene	146		9.979					ND	7
107 1,2,3-Trimethylbenzene	105		10.000					ND	
108 n-Butylbenzene	91	10.300	10.300	0.000	95	5220		0.2060	
109 1,2-Dichlorobenzene	146	10.331	10.331	0.000	0	1872		0.1410	
110 1,2-Dibromo-3-Chloropropane	157		11.119					ND	
111 1,3,5-Trichlorobenzene	180		11.305					ND	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	86	3079		0.1012	
113 Hexachlorobutadiene	225		12.082					ND	
114 Naphthalene	128	12.217	12.217	0.000	95	9584		0.2866	
115 1,2,3-Trichlorobenzene	180		12.435					ND	7
123 1,3-Dibromobenzene	1		0.000					ND	
125 t-Amyl alcohol	1		0.000					ND	
127 Butadiene	54		0.000					ND	
116 Tetrahydrothiophene TIC	1		0.000					ND	
121 Benzyl chloride	126		0.000					ND	
124 n-Nonyl Aldehyde	1		0.000					ND	
117 Isooctane	57		0.000					ND	
118 Ethylene oxide TIC	1		0.000					ND	
120 Ethyl acrylate	55		0.000					ND	
126 n-Butyl acetate	43		0.000					ND	
119 1-Chlorohexane TIC	1		0.000					ND	
122 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
S 133 1,2-Dichloroethene, Total	1		0.000					ND	7
S 132 TAH	1				0			0	7
S 131 1,3-Dichloropropene, Total	1		0.000					ND	7
S 130 Total BTEX	1		0.000					ND	7
S 129 Trihalomethanes, Total	1		0.000					ND	7
S 128 Xylenes, Total	106		0.000					ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004055.D

Injection Date: 01-Aug-2023 11:48:28

Instrument ID: VMS_MS13

Lims ID: MB

Client ID:

Operator ID: COULTER

ALS Bottle#:

0

Worklist Smp#:

9

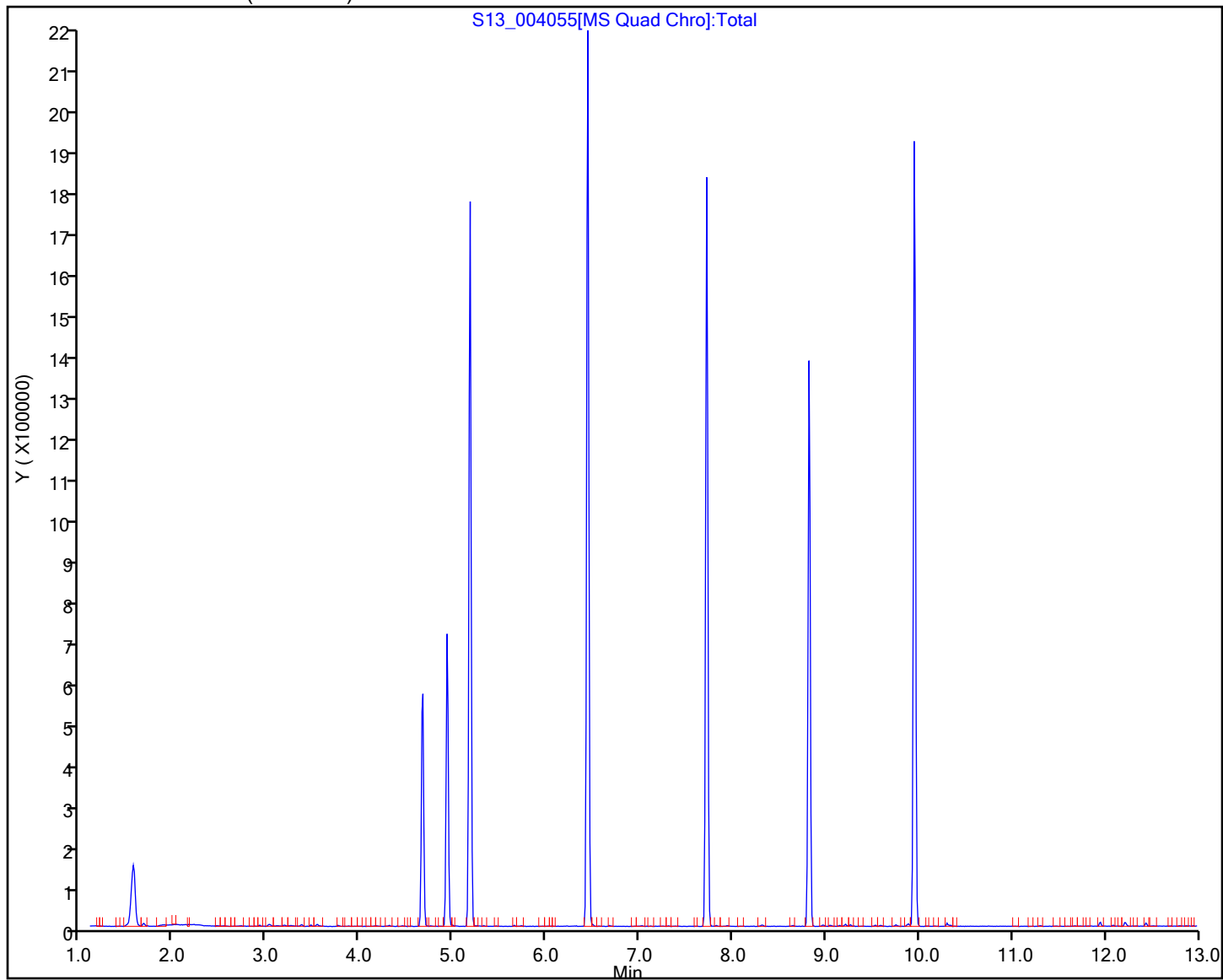
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004055.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Aug-2023 11:48:28 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: COULTER Instrument ID: VMS_MS13
Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2023 16:41:37 Calib Date: 11-Jul-2023 01:38:26
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
Process Host: CTX1677

First Level Reviewer: J6NB

Date: 01-Aug-2023 16:41:37

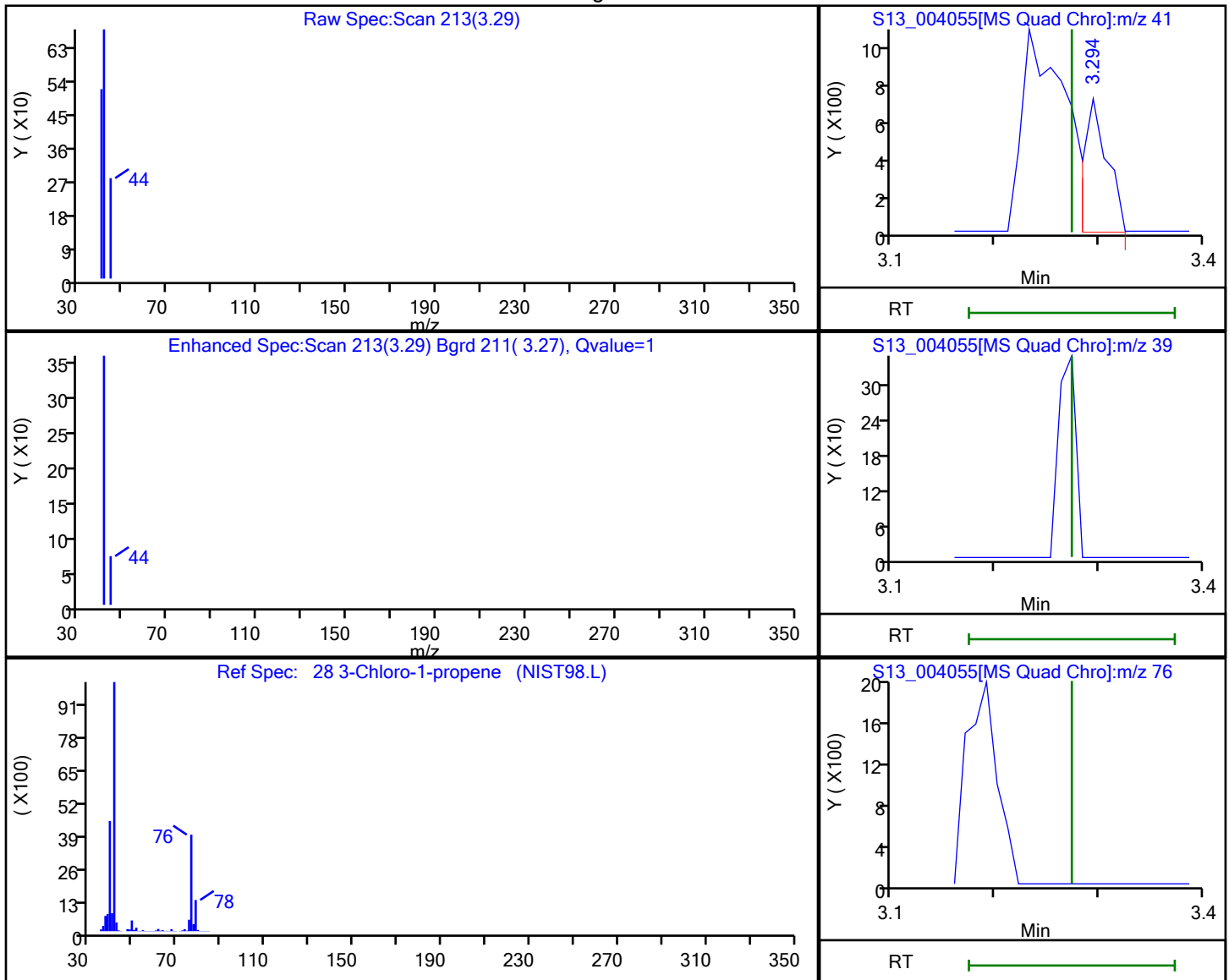
Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	45.8	91.60
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	46.3	92.56
\$ 6 Toluene-d8 (Surr)	50.0	48.1	96.14
\$ 7 4-Bromofluorobenzene (Surr)	50.0	49.2	98.32

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\MS13_004055.D
Injection Date: 01-Aug-2023 11:48:28 Instrument ID: VMS_MS13
Lims ID: MB
Client ID:
Operator ID: COULTER ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

28 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.29	41.00	1068	0.101028
3.27	39.00	0	
3.27	76.00	0	

Reviewer: J6NB, 01-Aug-2023 16:40:29 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

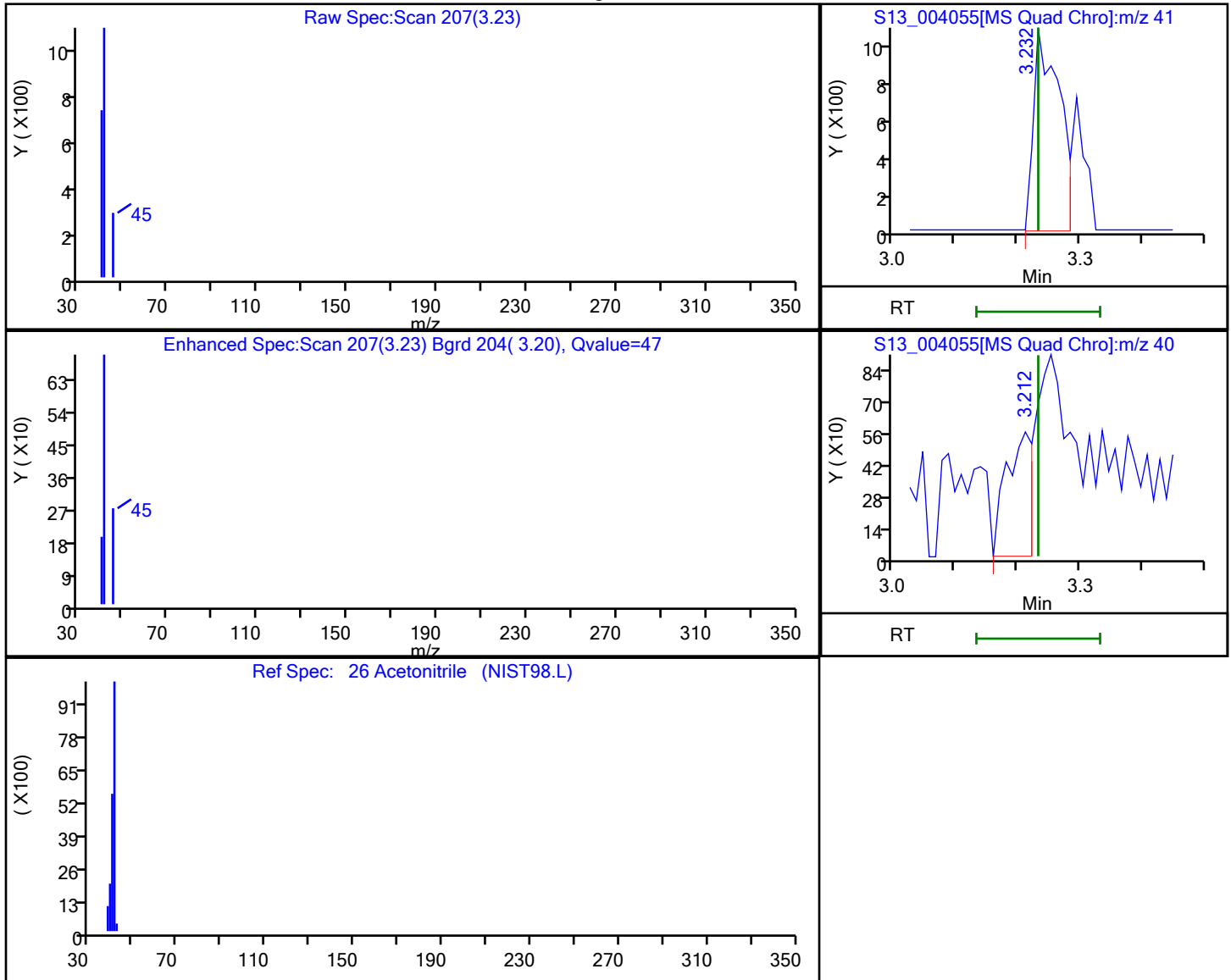
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\MS13_004055.D
Injection Date: 01-Aug-2023 11:48:28 Instrument ID: VMS_MS13
Lims ID: MB
Client ID:
Operator ID: COULTER ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS13_8260 Limit Group: MSV - 8260B Water and Solid
Column: Rxi-624Sil MS (0.25 mm) Detector: MS Quad

26 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
3.23	41.00	3001	7.077471
3.21	40.00	1650	

Reviewer: J6NB, 01-Aug-2023 16:40:44 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 280-621621/9

Matrix: Water Lab File ID: R_6735.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 18:24

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 621621 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621621/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6735.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 18:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-621621/9
Matrix: Water Lab File ID: R_6735.D
Analysis Method: 8260D Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 18:24
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621621 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	104		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6735.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 02-Aug-2023 18:24:30 ALS Bottle#: 4 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1636

First Level Reviewer: J6NB

Date: 02-Aug-2023 19:29:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.812	0.003	98	1763493	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	428863	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.539	0.003	98	651519	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.317	0.003	92	482341	50.0	52.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	624166	50.0	56.3	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.052	0.004	95	1891028	50.0	51.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.414	0.004	83	649702	50.0	51.5	
\$ 8 BFB	95	8.418	8.414	0.004	83	649702		NR	
9 Dichlorodifluoromethane	85		1.554					ND	
10 Chloromethane	50		1.715					ND	
11 Vinyl chloride	62		1.805					ND	
13 Bromomethane	94		2.067					ND	
12 Ethylene oxide	43		2.075					ND	U
14 Chloroethane	64		2.154					ND	
15 Dichlorofluoromethane	67		2.311					ND	
16 Trichlorofluoromethane	101		2.345					ND	
17 Ethanol	45		2.457					ND	
18 Ethyl ether	59		2.544					ND	
19 Propene oxide	58		2.630					ND	
20 Acrolein	56		2.649					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.720					ND	
22 1,1-Dichloroethene	96		2.723					ND	
23 Acetone	43		2.746					ND	7
24 Isopropyl alcohol	45		2.832					ND	U
25 Iodomethane	142		2.843					ND	
26 Carbon disulfide	76		2.900					ND	7
27 Acetonitrile	41	2.952	2.941	0.011	97	6224		5.93	
28 Methyl acetate	43		2.963					ND	
29 3-Chloro-1-propene	41		2.982					ND	
30 Methylene Chloride	84	3.076	3.076	0.000	14	1503		0.1632	
31 2-Methyl-2-propanol	59		3.121					ND	
32 Acrylonitrile	53		3.230					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		3.256					ND	
34 trans-1,2-Dichloroethene	96		3.267					ND	
35 Hexane	57		3.451					ND	
36 Chlorotrifluoroethene	116		3.531					ND	
37 Vinyl acetate	43		3.556					ND	
39 1,1-Dichloroethane	63		3.574					ND	
38 Isopropyl ether	87		3.578					ND	
40 2-Chloro-1,3-butadiene	53		3.623					ND	
41 Tert-butyl ethyl ether	59		3.829					ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		3.951					ND	
43 2-Butanone (MEK)	43		3.953					ND	
44 Ethyl acetate	43		3.968					ND	
45 cis-1,2-Dichloroethene	96		3.972					ND	
46 2,2-Dichloropropane	77		3.979					ND	
47 Propionitrile	54		3.998					ND	
48 sec-Butyl Alcohol	45		4.062					ND	
49 Methacrylonitrile	41		4.107					ND	
50 Chlorobromomethane	128		4.144					ND	
51 Tetrahydrofuran	42		4.159					ND	
52 Chloroform	83		4.204					ND	
53 1,1,1-Trichloroethane	97		4.343					ND	
54 Cyclohexane	56		4.399					ND	
55 1,1-Dichloropropene	75		4.452					ND	
56 Carbon tetrachloride	117		4.455					ND	
57 Isobutyl alcohol	41		4.474					ND	
58 Benzene	78		4.602					ND	
59 1,2-Dichloroethane	62		4.632					ND	7
61 Tert-amyl methyl ether	73		4.673					ND	
60 1,2-Dichloro-1,1,2-trifluoroethane	117		4.678					ND	
62 1,1,1-Trifluoro-2,2-dichloroethane	83		4.706					ND	
63 n-Heptane	43		4.789					ND	
64 n-Butanol	56		4.965					ND	
65 Trichloroethene	95		5.085					ND	
66 2-Pentanone	43		5.190					ND	
67 Methylcyclohexane	55		5.273					ND	
68 1,2-Dichloropropane	63		5.288					ND	
69 Methyl methacrylate	100		5.299					ND	
70 1,4-Dioxane	88		5.336					ND	
71 Dibromomethane	93		5.359					ND	
72 Dichlorobromomethane	83		5.482					ND	
73 2-Nitropropane	41		5.644					ND	
74 2-Chloroethyl vinyl ether	63		5.689					ND	
75 cis-1,3-Dichloropropene	75		5.827					ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929					ND	
77 Toluene	91		6.112					ND	
78 trans-1,3-Dichloropropene	75		6.292					ND	
79 Ethyl methacrylate	69		6.318					ND	
80 1,1,2-Trichloroethane	97		6.461					ND	
81 Tetrachloroethene	164		6.551					ND	
82 1,3-Dichloropropane	76		6.607					ND	
83 2-Hexanone	43		6.630					ND	
84 Chlorodibromomethane	129		6.798					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Tetrahydrothiophene	60		6.847					ND	
86 Ethylene Dibromide	107		6.914					ND	
87 1-Chlorohexane	91		7.308					ND	U
88 Chlorobenzene	112		7.346					ND	
89 1,1,1,2-Tetrachloroethane	131		7.421					ND	
90 Ethylbenzene	106		7.424					ND	
91 m-Xylene & p-Xylene	106		7.544					ND	
92 o-Xylene	106		7.900					ND	
93 Styrene	104		7.919					ND	
94 Bromoform	173		8.099					ND	
95 Isopropylbenzene	105		8.241					ND	
96 cis-1,4-Dichloro-2-butene	53		8.298					ND	
97 Cyclohexanone	55		8.335					ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530					ND	
99 Bromobenzene	156		8.556					ND	
100 trans-1,4-Dichloro-2-butene	53		8.568					ND	
101 1,2,3-Trichloropropane	110		8.590					ND	
102 N-Propylbenzene	120		8.639					ND	
103 2-Chlorotoluene	126		8.733					ND	
104 1,3,5-Trimethylbenzene	105		8.815					ND	
105 4-Chlorotoluene	126		8.849					ND	
106 tert-Butylbenzene	119		9.122					ND	
107 1,2,4-Trimethylbenzene	105		9.179					ND	
108 sec-Butylbenzene	134		9.340					ND	
109 Pentachloroethane	167		9.392					ND	
110 1,3-Dichlorobenzene	146		9.464					ND	
111 4-Isopropyltoluene	119		9.490					ND	
112 1,4-Dichlorobenzene	146		9.565					ND	7
113 1,2,3-Trimethylbenzene	105		9.584					ND	
114 n-Butylbenzene	91		9.895					ND	
115 1,2-Dichlorobenzene	146		9.917					ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701					ND	
117 1,3,5-Trichlorobenzene	180		10.888					ND	
118 1,2,4-Trichlorobenzene	180		11.522					ND	
119 Hexachlorobutadiene	225		11.660					ND	
120 Naphthalene	128		11.788					ND	
121 1,2,3-Trichlorobenzene	180		12.009					ND	
127 t-Amyl alcohol	1		0.000					ND	
134 2-Methylhexane	1		0.000					ND	
122 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
126 cis-1,4-Dichloro-2-butene TIC	1		0.000					ND	
129 Ethyl acrylate	55		0.000					ND	
131 Pentachloroethane TIC	1		0.000					ND	
130 2,2,3-Trimethylbutane	1		0.000					ND	
132 2,4-Dimethylpentane	1		0.000					ND	
124 n-Nonyl Aldehyde	1		0.000					ND	
125 Ethylene oxide TIC	1		0.000					ND	
133 3,3-Dimethylpentane	1		0.000					ND	
123 3-Ethylpentane	1		0.000					ND	
137 Dimethyl disulfide	1		0.000					ND	
136 2,2-Dimethylpentane	1		0.000					ND	
135 2,3-Dimethylpentane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
128 3-Methylhexane	1		0.000					ND	
138 Propene oxide TIC	58		5.334					ND	
S 144 TAH	1				0			0	
S 143 1,3-Dichloropropene, Total	1		0.000				ND		7
S 142 Trihalomethanes, Total	1		0.000				ND		7
S 141 Xylenes, Total	106		0.000				ND		7
S 140 1,2-Dichloroethene, Total	1		0.000				ND		7
S 139 Total BTEX	1		0.000				ND		7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 02-Aug-2023 20:22:56

Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6735.D

Injection Date: 02-Aug-2023 18:24:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

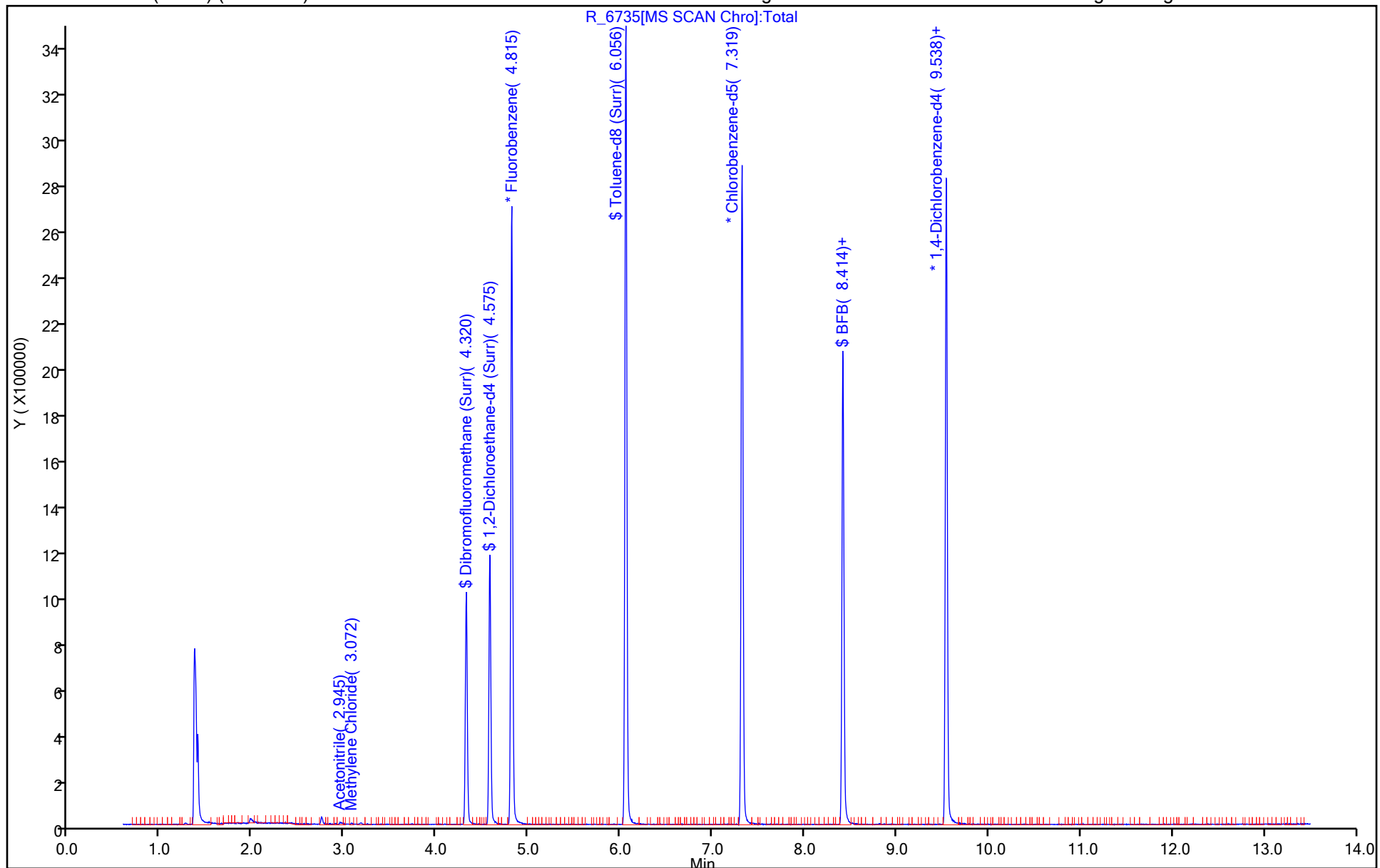
ALS Bottle#: 4

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6735.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 02-Aug-2023 18:24:30 ALS Bottle#: 4 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1636

First Level Reviewer: J6NB

Date: 02-Aug-2023 19:29:05

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	52.1	104.11
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	56.3	112.69
\$ 6 Toluene-d8 (Surr)	50.0	51.2	102.39
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.5	103.01

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621775/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6792.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 18:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621775/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6792.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 18:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-621775/9
Matrix: Water Lab File ID: R_6792.D
Analysis Method: 8260D Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 18:17
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621775 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	104		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	102		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Aug-2023 18:17:30 ALS Bottle#: 4 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:12:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.815	-0.003	98	1829089	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	89	440179	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	660337	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.320	0.001	92	489623	50.0	50.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	604963	50.0	52.7	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1938707	50.0	51.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	663634	50.0	51.9	
\$ 8 BFB	95	8.414	8.414	0.000	82	663634		NR	
9 Dichlorodifluoromethane	85		1.554					ND	
10 Chloromethane	50		1.715					ND	
11 Vinyl chloride	62		1.801					ND	
13 Bromomethane	94		2.068					ND	
12 Ethylene oxide	43		2.075					ND	U
14 Chloroethane	64		2.150					ND	
15 Dichlorofluoromethane	67		2.311					ND	
16 Trichlorofluoromethane	101		2.341					ND	
17 Ethanol	45		2.457					ND	
18 Ethyl ether	59		2.547					ND	
19 Propene oxide	58		2.630					ND	
20 Acrolein	56		2.649					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.724					ND	
22 1,1-Dichloroethene	96		2.724					ND	
23 Acetone	43		2.746					ND	7
24 Isopropyl alcohol	45		2.832					ND	
25 Iodomethane	142		2.840					ND	
26 Carbon disulfide	76		2.900					ND	7
27 Acetonitrile	41		2.945					ND	U
28 Methyl acetate	43		2.967					ND	
29 3-Chloro-1-propene	41		2.982					ND	
30 Methylene Chloride	84		3.072					ND	7
31 2-Methyl-2-propanol	59		3.125					ND	
32 Acrylonitrile	53		3.230					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		3.256					ND	
34 trans-1,2-Dichloroethene	96		3.267					ND	
35 Hexane	57		3.455					ND	
36 Chlorotrifluoroethene	116		3.531					ND	
37 Vinyl acetate	43		3.556					ND	
38 Isopropyl ether	87		3.574					ND	
39 1,1-Dichloroethane	63		3.575					ND	
40 2-Chloro-1,3-butadiene	53		3.627					ND	
41 Tert-butyl ethyl ether	59		3.833					ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		3.951					ND	
43 2-Butanone (MEK)	43		3.953					ND	
44 Ethyl acetate	43		3.968					ND	
45 cis-1,2-Dichloroethene	96		3.972					ND	
46 2,2-Dichloropropane	77		3.983					ND	
47 Propionitrile	54		3.998					ND	
48 sec-Butyl Alcohol	45		4.066					ND	
49 Methacrylonitrile	41		4.107					ND	
50 Chlorobromomethane	128		4.148					ND	
51 Tetrahydrofuran	42		4.156					ND	
52 Chloroform	83		4.204					ND	
53 1,1,1-Trichloroethane	97		4.343					ND	
54 Cyclohexane	56		4.399					ND	
55 1,1-Dichloropropene	75		4.455					ND	
56 Carbon tetrachloride	117		4.459					ND	
57 Isobutyl alcohol	41		4.474					ND	U
58 Benzene	78		4.602					ND	7
59 1,2-Dichloroethane	62		4.632					ND	U
61 Tert-amyl methyl ether	73		4.673					ND	
60 1,2-Dichloro-1,1,2-trifluoroethane	117		4.678					ND	
62 1,1,1-Trifluoro-2,2-dichloroethane	83		4.706					ND	
63 n-Heptane	43		4.789					ND	
64 n-Butanol	56		4.969					ND	
65 Trichloroethene	95		5.085					ND	
66 2-Pentanone	43		5.190					ND	
67 Methylcyclohexane	55		5.273					ND	
68 1,2-Dichloropropane	63		5.288					ND	
69 Methyl methacrylate	100		5.299					ND	
70 1,4-Dioxane	88		5.336					ND	
71 Dibromomethane	93		5.359					ND	
72 Dichlorobromomethane	83		5.483					ND	
73 2-Nitropropane	41		5.647					ND	
74 2-Chloroethyl vinyl ether	63		5.685					ND	
75 cis-1,3-Dichloropropene	75		5.827					ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929					ND	
77 Toluene	91		6.112					ND	
78 trans-1,3-Dichloropropene	75		6.289					ND	
79 Ethyl methacrylate	69		6.319					ND	
80 1,1,2-Trichloroethane	97		6.461					ND	
81 Tetrachloroethene	164		6.551					ND	
82 1,3-Dichloropropane	76		6.607					ND	
83 2-Hexanone	43		6.630					ND	
84 Chlorodibromomethane	129		6.798					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Tetrahydrothiophene	60		6.847					ND	
86 Ethylene Dibromide	107		6.915					ND	
87 1-Chlorohexane	91		7.308					ND	U
88 Chlorobenzene	112		7.346					ND	
89 1,1,1,2-Tetrachloroethane	131		7.417					ND	
90 Ethylbenzene	106		7.424					ND	
91 m-Xylene & p-Xylene	106		7.544					ND	7
92 o-Xylene	106		7.900					ND	
93 Styrene	104		7.915					ND	
94 Bromoform	173		8.095					ND	
95 Isopropylbenzene	105		8.242					ND	
96 cis-1,4-Dichloro-2-butene	53		8.298					ND	
97 Cyclohexanone	55	8.414	8.335	0.079	5	1045		13.8	
98 1,1,2,2-Tetrachloroethane	83		8.530					ND	
99 Bromobenzene	156		8.553					ND	
100 trans-1,4-Dichloro-2-butene	53		8.568					ND	
101 1,2,3-Trichloropropane	110		8.590					ND	
102 N-Propylbenzene	120		8.639					ND	
103 2-Chlorotoluene	126		8.733					ND	
104 1,3,5-Trimethylbenzene	105		8.815					ND	
105 4-Chlorotoluene	126		8.849					ND	
106 tert-Butylbenzene	119		9.119					ND	
107 1,2,4-Trimethylbenzene	105		9.179					ND	
108 sec-Butylbenzene	134		9.340					ND	
109 Pentachloroethane	167		9.392					ND	
110 1,3-Dichlorobenzene	146		9.464					ND	
111 4-Isopropyltoluene	119		9.490					ND	
112 1,4-Dichlorobenzene	146		9.565					ND	
113 1,2,3-Trimethylbenzene	105		9.584					ND	
114 n-Butylbenzene	91		9.891					ND	
115 1,2-Dichlorobenzene	146		9.917					ND	
116 1,2-Dibromo-3-Chloropropane	157		10.697					ND	
117 1,3,5-Trichlorobenzene	180		10.888					ND	
118 1,2,4-Trichlorobenzene	180		11.522					ND	
119 Hexachlorobutadiene	225		11.664					ND	
120 Naphthalene	128		11.788					ND	
121 1,2,3-Trichlorobenzene	180		12.013					ND	
127 t-Amyl alcohol	1		0.000					ND	
134 2-Methylhexane	1		0.000					ND	
122 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
126 cis-1,4-Dichloro-2-butene TIC	1		0.000					ND	
129 Ethyl acrylate	55		0.000					ND	
131 Pentachloroethane TIC	1		0.000					ND	
130 2,2,3-Trimethylbutane	1		0.000					ND	
132 2,4-Dimethylpentane	1		0.000					ND	
124 n-Nonyl Aldehyde	1		0.000					ND	
125 Ethylene oxide TIC	1		0.000					ND	
133 3,3-Dimethylpentane	1		0.000					ND	
123 3-Ethylpentane	1		0.000					ND	
137 Dimethyl disulfide	1		0.000					ND	
136 2,2-Dimethylpentane	1		0.000					ND	
135 2,3-Dimethylpentane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
128 3-Methylhexane	1		0.000					ND	
138 Propene oxide TIC	58		5.334					ND	
S 144 TAH	1				0			0	
S 143 1,3-Dichloropropene, Total	1		0.000				ND		7
S 142 Trihalomethanes, Total	1		0.000				ND		7
S 141 Xylenes, Total	106		0.000				ND		7
S 140 1,2-Dichloroethene, Total	1		0.000				ND		7
S 139 Total BTEX	1		0.000				ND		7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 23:28:13

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D

Injection Date: 03-Aug-2023 18:17:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

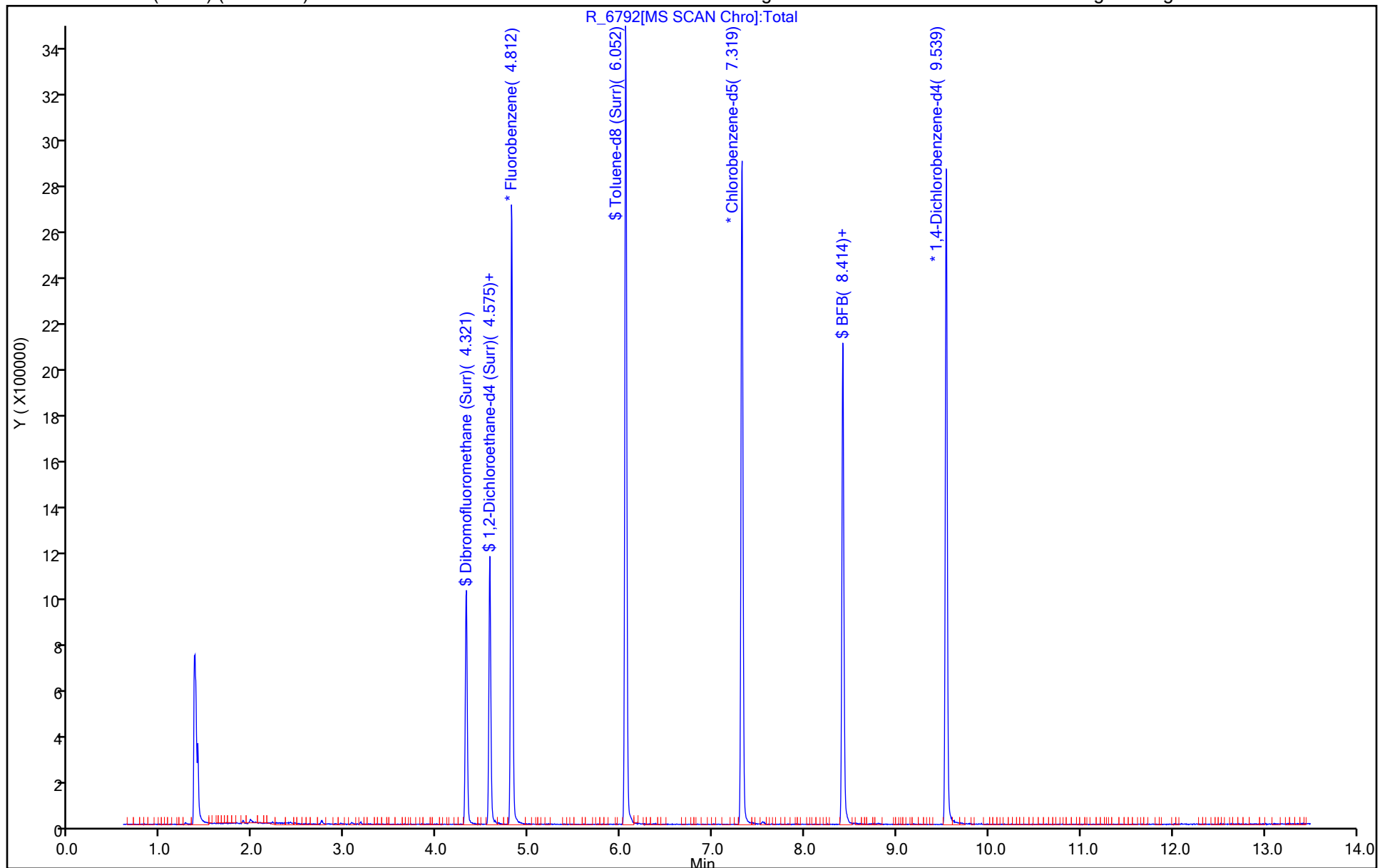
ALS Bottle#: 4

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Aug-2023 18:17:30 ALS Bottle#: 4 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:12:23

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.9	101.89
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.31
\$ 6 Toluene-d8 (Surr)	50.0	51.1	102.27
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.9	103.81

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D

Injection Date: 03-Aug-2023 18:17:30

Instrument ID: VMS_R1

Lims ID: MB

Client ID:

Operator ID: sjd

ALS Bottle#:

4

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

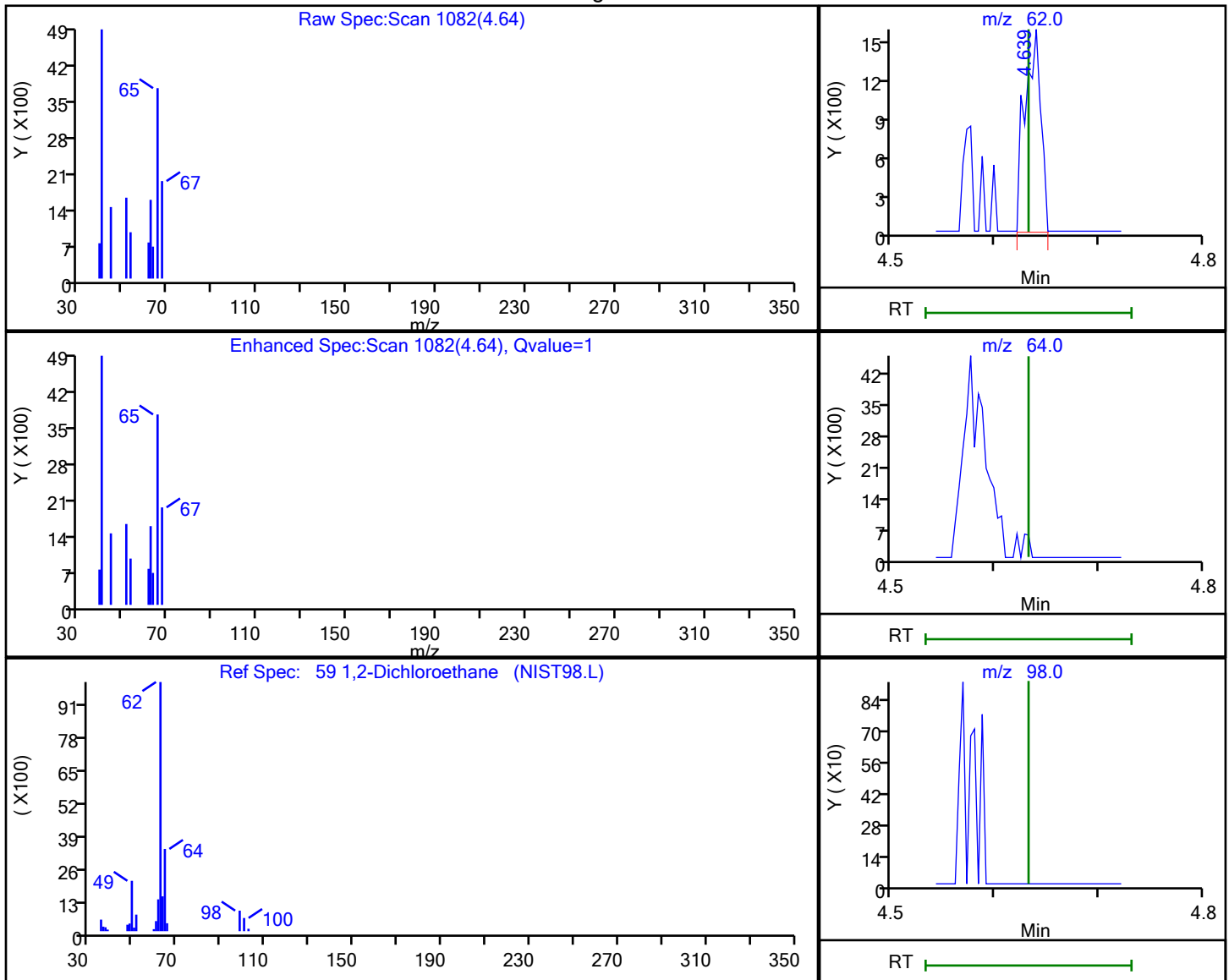
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.64	62.00	1656	0.132055
4.63	64.00	0	
4.63	98.00	0	

Reviewer: J6NB, 03-Aug-2023 23:12:04 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D

Injection Date: 03-Aug-2023 18:17:30

Instrument ID: VMS_R1

Lims ID: MB

Client ID:

Operator ID: sjd

ALS Bottle#:

4

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

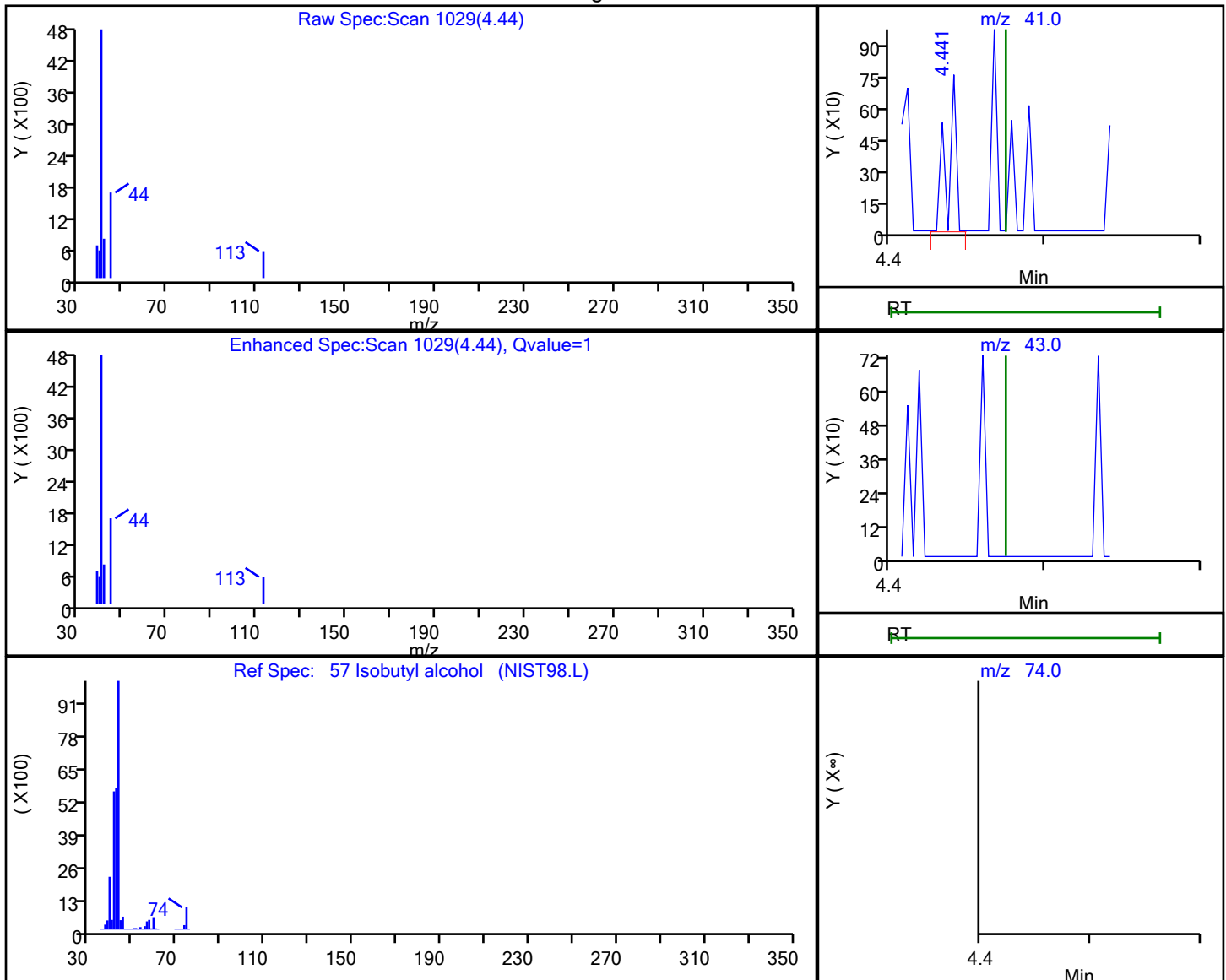
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

57 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.44	41.00	289	11.006183
4.47	43.00	0	
4.47	74.00	0	

Reviewer: J6NB, 03-Aug-2023 23:11:58 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D

Injection Date: 03-Aug-2023 18:17:30

Instrument ID: VMS_R1

Lims ID: MB

Client ID:

Operator ID: sjd

ALS Bottle#:

4

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

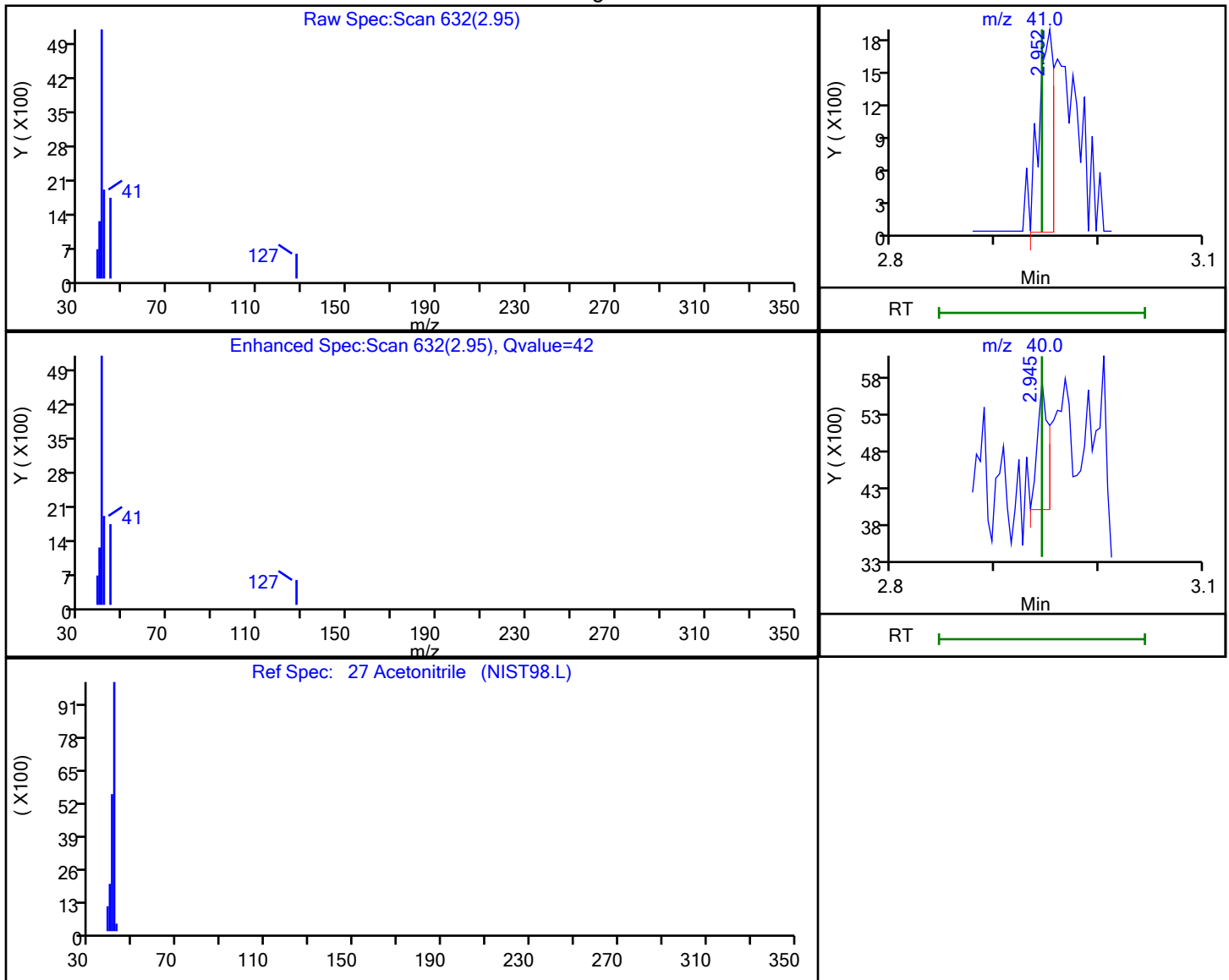
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

27 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
2.95	41.00	1809	1.660756
2.94	40.00	1238	

Reviewer: J6NB, 03-Aug-2023 23:12:16 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621382/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS13_004051A.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/01/2023 10:18</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621382</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	59.5		1.0	0.58
71-55-6	1,1,1-Trichloroethane	53.9		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	52.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	51.1		1.0	0.27
75-34-3	1,1-Dichloroethane	50.6		1.0	0.22
75-35-4	1,1-Dichloroethene	50.3		1.0	0.23
563-58-6	1,1-Dichloropropene	50.9		1.0	0.42
96-18-4	1,2,3-Trichloropropane	52.6		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	51.2		5.0	1.8
95-50-1	1,2-Dichlorobenzene	52.7		1.0	0.37
107-06-2	1,2-Dichloroethane	47.0		1.0	0.54
78-87-5	1,2-Dichloropropane	51.1		1.0	0.52
541-73-1	1,3-Dichlorobenzene	51.2		1.0	0.33
142-28-9	1,3-Dichloropropane	53.6		1.0	0.38
106-46-7	1,4-Dichlorobenzene	55.0		1.0	0.39
594-20-7	2,2-Dichloropropane	56.5		1.0	0.38
591-78-6	2-Hexanone	187		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	180		5.0	0.98
67-64-1	Acetone	179		15	6.6
71-43-2	Benzene	50.8		1.0	0.31
75-25-2	Bromoform	56.1		2.0	1.2
74-83-9	Bromomethane	54.4		5.0	2.4
75-15-0	Carbon disulfide	45.4		2.0	0.63
56-23-5	Carbon tetrachloride	55.5		1.0	0.57
108-90-7	Chlorobenzene	52.6		1.0	0.42
74-97-5	Chlorobromomethane	50.9		1.0	0.40
124-48-1	Chlorodibromomethane	60.2		2.0	0.62
75-00-3	Chloroethane	50.5		4.0	1.4
67-66-3	Chloroform	51.5		1.0	0.36
74-87-3	Chloromethane	52.5		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	48.7		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	58.0		2.0	0.63
74-95-3	Dibromomethane	47.8		1.0	0.34
75-27-4	Dichlorobromomethane	52.9		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621382/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS13_004051A.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/01/2023 10:18</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621382</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	53.3		3.0	0.96
100-41-4	Ethylbenzene	54.8		1.0	0.30
74-88-4	Iodomethane	51.6		5.0	2.6
78-83-1	Isobutyl alcohol	974		110	37
75-09-2	Methylene Chloride	51.4		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	54.4		2.0	0.36
95-47-6	o-Xylene	54.9		1.0	0.33
100-42-5	Styrene	56.0		1.0	0.36
127-18-4	Tetrachloroethene	54.9		1.0	0.40
108-88-3	Toluene	50.3		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	49.5		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	51.8		2.0	0.65
79-01-6	Trichloroethene	53.7		1.0	0.30
75-69-4	Trichlorofluoromethane	48.7		2.0	0.57
108-05-4	Vinyl acetate	102		3.0	0.94
75-01-4	Vinyl chloride	53.9		2.0	0.51
1330-20-7	Xylenes, Total	109		1.0	0.33
78-93-3	2-Butanone (MEK)	166		15	6.0
107-02-8	Acrolein	788		20	4.9
107-13-1	Acrylonitrile	431		20	4.5
106-93-4	1,2-Dibromoethane	54.1		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	52.0		1.0	0.58
107-05-1	Allyl chloride	48.9		2.0	0.17
97-63-2	Ethyl methacrylate	56.3		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	80.9		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	93		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\MS13_004051A.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Aug-2023 10:18:27 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV 2
 Operator ID: COULTER Instrument ID: VMS_MS13
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 13:07:45 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\MS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1684

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	98	1357159	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	85	314511	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	95	486084	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.673	4.663	0.011	93	322220	50.0	46.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	401488	50.0	46.6	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1323707	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	460929	50.0	50.3	
9 Dichlorodifluoromethane	85	1.709	1.709	0.000	99	237482	50.0	53.3	
10 Chloromethane	50	1.895	1.895	0.000	99	365700	50.0	52.5	
11 Vinyl chloride	62	1.999	1.999	0.000	98	322219	50.0	53.9	
12 Bromomethane	94	2.310	2.310	0.000	90	213456	50.0	54.4	
13 Chloroethane	64	2.393	2.393	0.000	99	226224	50.0	50.5	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	97	516722	50.0	51.2	
15 Trichlorofluoromethane	101	2.590	2.590	0.000	97	373737	50.0	48.7	
18 Ethyl ether	59	2.797	2.797	0.000	95	330315	50.0	50.8	
19 Acrolein	56	2.911	2.911	0.000	100	686951	493.8	787.9	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	97	270557	50.0	50.3	
22 1,1,2-Trichloro-1,2,2-trifluoro	151	3.015	3.015	0.000	86	184552	50.0	52.6	
21 Acetone	43	3.015	3.015	0.000	100	552092	200.0	178.9	
24 Iodomethane	142	3.118	3.118	0.000	99	464909	50.0	51.6	
25 Carbon disulfide	76	3.180	3.180	0.000	99	887794	50.0	45.4	
27 Methyl acetate	43	3.253	3.253	0.000	99	717567	100.0	87.8	
28 3-Chloro-1-propene	41	3.274	3.274	0.000	94	514658	50.0	48.9	
29 Methylene Chloride	84	3.367	3.367	0.000	96	327114	50.0	51.4	
30 2-Methyl-2-propanol	59	3.419	3.419	0.000	99	607609	500.0	380.6	
31 Acrylonitrile	53	3.533	3.533	0.000	99	2026544	500.0	431.0	
32 Methyl tert-butyl ether	73	3.554	3.554	0.000	96	940134	50.0	52.1	
33 trans-1,2-Dichloroethene	96	3.574	3.574	0.000	96	316452	50.0	49.5	
34 Hexane	57	3.771	3.771	0.000	87	555881	50.0	52.0	
35 Vinyl acetate	43	3.875	3.875	0.000	97	1629421	100.0	101.7	
37 1,1-Dichloroethane	63	3.896	3.896	0.000	96	638071	50.0	50.6	
40 2-Butanone (MEK)	43	4.289	4.289	0.000	100	1020882	200.0	165.5	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	83	357977	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2,2-Dichloropropane	77	4.320	4.320	0.000	86	366938	50.0	56.5	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	1173745	1200.0	987.9	
47 Chlorobromomethane	128	4.486	4.486	0.000	96	168537	50.0	50.9	
48 Tetrahydrofuran	42	4.497	4.497	0.000	90	324370	100.0	83.5	
49 Chloroform	83	4.548	4.548	0.000	94	549238	50.0	51.5	
50 1,1,1-Trichloroethane	97	4.693	4.693	0.000	99	450036	50.0	53.9	
51 Cyclohexane	56	4.756	4.756	0.000	89	637978	50.0	50.0	
52 1,1-Dichloropropene	75	4.807	4.807	0.000	97	434225	50.0	50.9	
53 Carbon tetrachloride	117	4.818	4.818	0.000	96	365739	50.0	55.5	
54 Isobutyl alcohol	41	4.818	4.818	0.000	97	463959	1250.0	973.9	
56 Benzene	78	4.963	4.963	0.000	97	1320616	50.0	50.8	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	96	463031	50.0	47.0	
59 n-Heptane	43	5.149	5.149	0.000	91	453063	50.0	40.6	
60 Trichloroethene	95	5.450	5.450	0.000	98	339320	50.0	53.7	
61 2-Pentanone	43	5.564	5.564	0.000	99	1337101	160.0	137.9	
62 Methylcyclohexane	55	5.647	5.647	0.000	96	479679	50.0	46.6	
64 1,2-Dichloropropane	63	5.668	5.668	0.000	98	386817	50.0	51.1	
65 1,4-Dioxane	88	5.699	5.699	0.000	95	76869	1000.0	749.8	
66 Dibromomethane	93	5.730	5.730	0.000	95	214596	50.0	47.8	
67 Dichlorobromomethane	83	5.854	5.854	0.000	99	401916	50.0	52.9	
69 2-Chloroethyl vinyl ether	63	6.061	6.061	0.000	90	264476	50.0	44.3	
70 cis-1,3-Dichloropropene	75	6.207	6.207	0.000	97	511549	50.0	58.0	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	95	2028846	200.0	179.5	
72 Toluene	91	6.497	6.497	0.000	99	1394138	50.0	50.3	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	95	497158	50.0	51.8	
74 Ethyl methacrylate	69	6.694	6.694	0.000	89	494053	50.0	56.3	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	92	307179	50.0	51.1	
76 Tetrachloroethene	164	6.942	6.942	0.000	96	253135	50.0	54.9	
77 1,3-Dichloropropane	76	7.004	7.004	0.000	93	535824	50.0	53.6	
78 2-Hexanone	43	7.015	7.015	0.000	94	1550420	200.0	187.2	
79 Chlorodibromomethane	129	7.191	7.191	0.000	90	307138	50.0	60.2	
80 Ethylene Dibromide	107	7.315	7.315	0.000	98	323754	50.0	54.1	
81 1-Chlorohexane	91	7.709	7.709	0.000	96	374073	40.0	43.6	
82 Chlorobenzene	112	7.751	7.751	0.000	95	913766	50.0	52.6	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	96	292032	50.0	59.5	
84 Ethylbenzene	106	7.823	7.823	0.000	98	493167	50.0	54.8	
85 m-Xylene & p-Xylene	106	7.937	7.937	0.000	99	613773	50.0	54.4	
86 o-Xylene	106	8.300	8.300	0.000	96	603473	50.0	54.9	
87 Styrene	104	8.321	8.321	0.000	96	1039714	50.0	56.0	
88 Bromoform	173	8.497	8.497	0.000	96	187306	50.0	56.1	
89 Isopropylbenzene	105	8.642	8.642	0.000	96	1524066	50.0	55.7	
91 Cyclohexanone	55	8.745	8.745	0.000	90	960004	1500.0	1448.7	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	461588	50.0	52.9	
93 Bromobenzene	156	8.963	8.963	0.000	96	356331	50.0	52.3	
94 trans-1,4-Dichloro-2-butene	53	8.973	8.973	0.000	80	137991	50.0	80.9	
95 1,2,3-Trichloropropane	110	8.994	8.994	0.000	84	147792	50.0	52.6	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	415244	50.0	54.3	
97 2-Chlorotoluene	126	9.139	9.139	0.000	96	350400	50.0	55.4	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	1249972	50.0	54.7	
99 4-Chlorotoluene	126	9.264	9.264	0.000	97	366092	50.0	53.5	
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	1064992	50.0	53.7	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	1272354	50.0	54.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	302814	50.0	52.3	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	689541	50.0	51.2	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	97	1321123	50.0	53.1	
106 1,4-Dichlorobenzene	146	9.979	9.979	0.000	94	697188	50.0	55.0	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	1188406	50.0	50.3	
109 1,2-Dichlorobenzene	146	10.331	10.331	0.000	98	652926	50.0	52.7	
110 1,2-Dibromo-3-Chloropropane	157	11.119	11.119	0.000	85	102666	50.0	51.2	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	94	413151	50.0	52.0	
113 Hexachlorobutadiene	225	12.082	12.082	0.000	98	137815	50.0	42.1	
114 Naphthalene	128	12.217	12.217	0.000	97	1464594	50.0	46.9	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	96	383092	50.0	49.1	
127 Butadiene	54		0.000				ND	ND	
S 133 1,2-Dichloroethene, Total	1				0		100.0	98.2	
S 131 1,3-Dichloropropene, Total	1				0		100.0	109.8	
S 129 Trihalomethanes, Total	1				0		200.0	220.7	
S 128 Xylenes, Total	106				0		100.0	109.2	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

MV-Gas B_00141

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004051A.D

Injection Date: 01-Aug-2023 10:18:27

Instrument ID: VMS_MS13

Lims ID: LCS

Client ID:

Operator ID: COULTER

ALS Bottle#:

0

Worklist Smp#:

4

Purge Vol: 5.000 mL

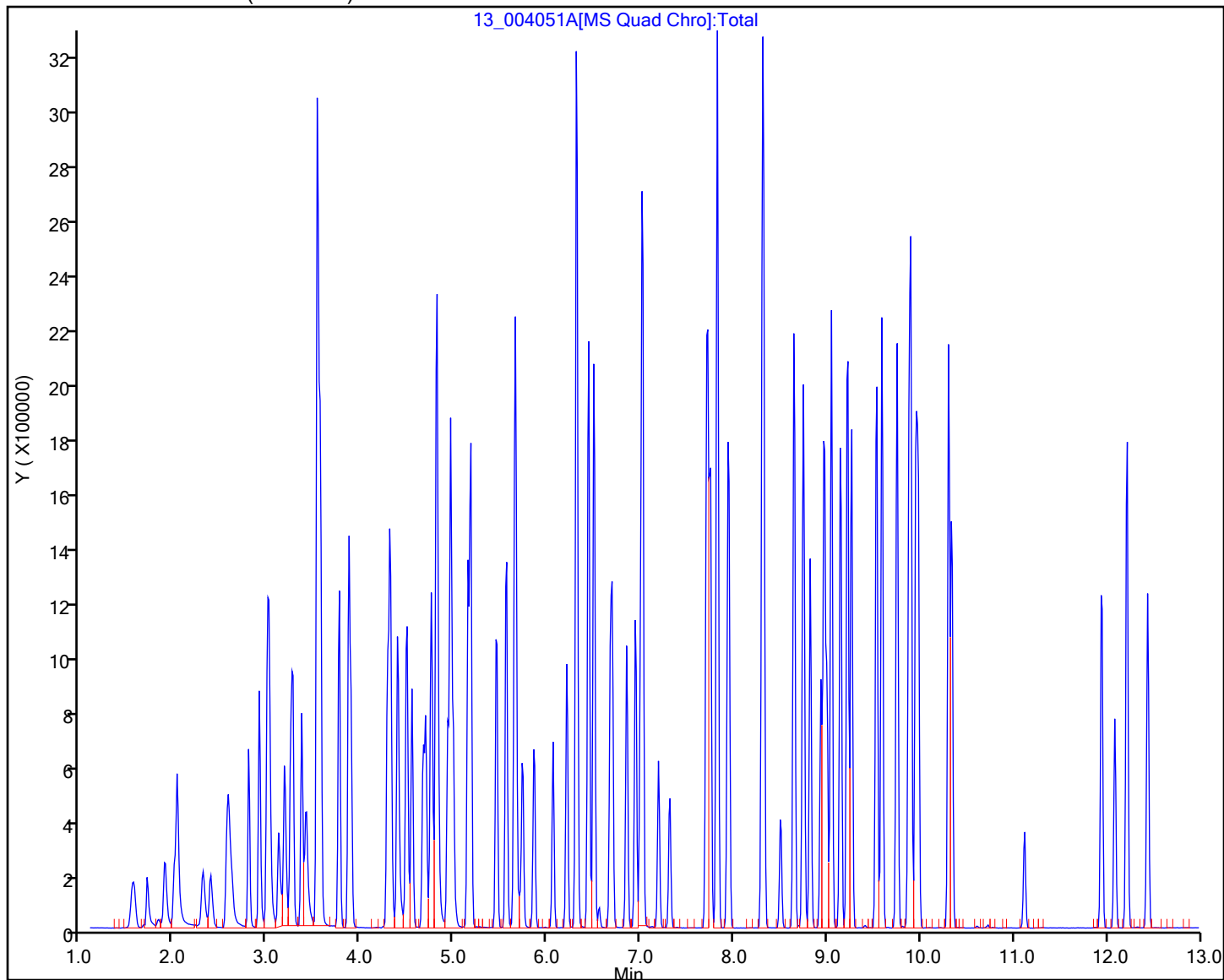
Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group:

MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004051A.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2023 10:18:27 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV 2
Operator ID: COULTER Instrument ID: VMS_MS13
Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2023 13:07:45 Calib Date: 11-Jul-2023 01:38:26
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
Process Host: CTX1684

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	46.5	92.92
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	46.6	93.16
\$ 6 Toluene-d8 (Surr)	50.0	50.0	99.98
\$ 7 4-Bromofluorobenzene (Surr)	50.0	50.3	100.66

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-621382/5
 Matrix: Water Lab File ID: MS13_004049A.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/01/2023 09:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621382 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	20.3		3.0	1.2
75-05-8	Acetonitrile	159		30	9.6
126-98-7	Methacrylonitrile	193		15	5.3
80-62-6	Methyl methacrylate	42.7		4.0	1.1
107-12-0	Propionitrile	173		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	95		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004049A.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-Aug-2023 09:08:57 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCV
 Operator ID: COULTER Instrument ID: VMS_MS13
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 13:07:45 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1684

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1382635	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	317493	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	95	491662	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.663	4.663	0.000	92	335810	50.0	47.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	95	405985	50.0	46.2	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1330859	50.0	49.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	468554	50.0	50.6	
16 Ethanol	45	2.694	2.694	0.000	98	101068	1500.0	786.3	
23 Isopropyl alcohol	45	3.098	3.098	0.000	99	116002	250.0	141.5	
26 Acetonitrile	41	3.232	3.232	0.000	100	235654	250.0	158.7	
36 Isopropyl ether	87	3.885	3.885	0.000	97	131377	25.0	21.4	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	91	252236	25.0	20.3	
39 Tert-butyl ethyl ether	59	4.155	4.155	0.000	99	528112	25.0	21.2	
41 Ethyl acetate	43	4.300	4.300	0.000	99	476594	50.0	40.6	
44 Propionitrile	54	4.331	4.331	0.000	99	363501	250.0	173.1	
46 Methacrylonitrile	41	4.445	4.445	0.000	91	1219459	250.0	192.9	
55 n-Butanol	56	5.025	5.025	0.000	50	176731	625.0	428.1	
58 Tert-amyl methyl ether	73	5.025	5.025	0.000	87	445593	25.0	20.9	
63 Methyl methacrylate	100	5.668	5.668	0.000	93	113659	50.0	42.7	
68 2-Nitropropane	41	6.030	6.030	0.000	97	56515	50.0	33.6	
90 cis-1,4-Dichloro-2-butene	53	8.694	8.694	0.000	95	93889	50.0	62.9	
107 1,2,3-Trimethylbenzene	105	10.000	10.000	0.000	98	584442	25.0	23.4	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	97	192399	25.0	20.9	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00064

Amount Added: 25.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004049A.D

Injection Date: 01-Aug-2023 09:08:57

Instrument ID: VMS_MS13

Lims ID: LCS

Client ID:

Operator ID: COULTER

ALS Bottle#: 0

Worklist Smp#: 5

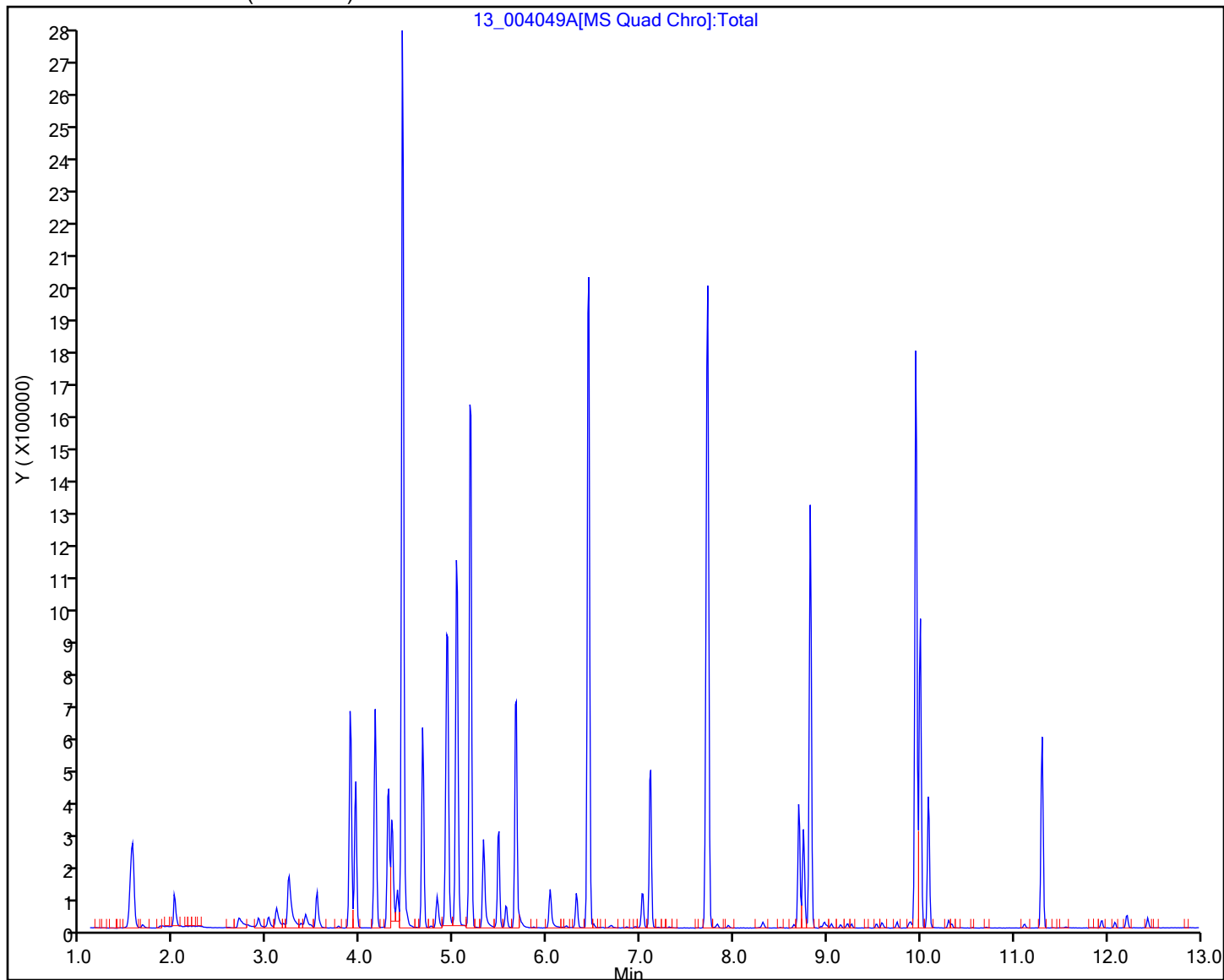
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004049A.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2023 09:08:57 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCV
Operator ID: COULTER Instrument ID: VMS_MS13
Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2023 13:07:45 Calib Date: 11-Jul-2023 01:38:26
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
Process Host: CTX1684

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	47.5	95.06
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	46.2	92.47
\$ 6 Toluene-d8 (Surr)	50.0	49.8	99.57
\$ 7 4-Bromofluorobenzene (Surr)	50.0	50.6	101.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621621/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6730c.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/02/2023 16:22</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	52.1		1.0	0.58
71-55-6	1,1,1-Trichloroethane	52.4		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	47.8		1.0	0.21
79-00-5	1,1,2-Trichloroethane	52.7		1.0	0.27
75-34-3	1,1-Dichloroethane	52.7		1.0	0.22
75-35-4	1,1-Dichloroethene	50.1		1.0	0.23
563-58-6	1,1-Dichloropropene	52.4		1.0	0.42
96-18-4	1,2,3-Trichloropropane	52.7		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	48.9		5.0	1.8
95-50-1	1,2-Dichlorobenzene	51.5		1.0	0.37
107-06-2	1,2-Dichloroethane	55.1		1.0	0.54
78-87-5	1,2-Dichloropropane	53.5		1.0	0.52
541-73-1	1,3-Dichlorobenzene	50.2		1.0	0.33
142-28-9	1,3-Dichloropropane	54.5		1.0	0.38
106-46-7	1,4-Dichlorobenzene	48.4		1.0	0.39
594-20-7	2,2-Dichloropropane	45.7		1.0	0.38
591-78-6	2-Hexanone	229		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	219		5.0	0.98
67-64-1	Acetone	220		15	6.6
71-43-2	Benzene	51.7		1.0	0.31
75-25-2	Bromoform	52.0		2.0	1.2
74-83-9	Bromomethane	36.8		5.0	2.4
75-15-0	Carbon disulfide	47.6		2.0	0.63
56-23-5	Carbon tetrachloride	52.9		1.0	0.57
108-90-7	Chlorobenzene	49.9		1.0	0.42
74-97-5	Chlorobromomethane	53.9		1.0	0.40
124-48-1	Chlorodibromomethane	52.1		2.0	0.62
75-00-3	Chloroethane	49.1		4.0	1.4
67-66-3	Chloroform	52.8		1.0	0.36
74-87-3	Chloromethane	50.1		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	50.0		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	51.7		2.0	0.63
74-95-3	Dibromomethane	52.3		1.0	0.34
75-27-4	Dichlorobromomethane	54.3		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621621/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6730c.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/02/2023 16:22</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621621</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	50.9		3.0	0.96
100-41-4	Ethylbenzene	51.9		1.0	0.30
74-88-4	Iodomethane	50.2		5.0	2.6
78-83-1	Isobutyl alcohol	1380		110	37
75-09-2	Methylene Chloride	49.7		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	51.3		2.0	0.36
95-47-6	o-Xylene	53.4		1.0	0.33
100-42-5	Styrene	55.4		1.0	0.36
127-18-4	Tetrachloroethene	49.6		1.0	0.40
108-88-3	Toluene	51.0		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	49.2		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	52.7		2.0	0.65
79-01-6	Trichloroethene	55.0		1.0	0.30
75-69-4	Trichlorofluoromethane	50.0		2.0	0.57
108-05-4	Vinyl acetate	51.9		3.0	0.94
75-01-4	Vinyl chloride	51.6		2.0	0.51
1330-20-7	Xylenes, Total	105		1.0	0.33
78-93-3	2-Butanone (MEK)	233		15	6.0
107-02-8	Acrolein	490		20	4.9
107-13-1	Acrylonitrile	581		20	4.5
106-93-4	1,2-Dibromoethane	53.9		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	46.7		1.0	0.58
107-05-1	Allyl chloride	47.3		2.0	0.17
97-63-2	Ethyl methacrylate	51.7		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	51.9		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6730c.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 02-Aug-2023 16:22:30 ALS Bottle#: 28 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124100-033
 Operator ID: wickham Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1636

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.812	0.003	99	1796863	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	448733	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.539	0.003	97	725902	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.317	0.003	91	468494	50.0	49.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	599238	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1931430	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	706816	50.0	50.3	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	439127	50.0	50.9	
10 Chloromethane	50	1.715	1.715	0.000	99	683588	50.0	50.1	
11 Vinyl chloride	62	1.805	1.805	0.000	98	565915	50.0	51.6	
13 Bromomethane	94	2.067	2.067	0.000	92	264644	50.0	36.8	
14 Chloroethane	64	2.154	2.154	0.000	99	348030	50.0	49.1	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	848442	50.0	50.9	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	601833	50.0	50.0	
18 Ethyl ether	59	2.544	2.544	0.000	97	397195	50.0	52.7	
20 Acrolein	56	2.649	2.649	0.000	99	619410	493.8	490.1	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.720	2.720	0.000	96	255591	50.0	51.3	
22 1,1-Dichloroethene	96	2.723	2.723	0.000	93	347124	50.0	50.1	
23 Acetone	43	2.746	2.746	0.000	99	682483	200.0	220.4	
25 Iodomethane	142	2.843	2.843	0.000	100	485762	50.0	50.2	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1307581	50.0	47.6	
28 Methyl acetate	43	2.963	2.963	0.000	99	845611	100.0	115.0	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	812207	50.0	47.3	
30 Methylene Chloride	84	3.076	3.076	0.000	98	466821	50.0	49.7	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	94	415427	500.0	516.0	
32 Acrylonitrile	53	3.230	3.230	0.000	99	2097675	500.0	581.5	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	1207967	50.0	53.0	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	406629	50.0	49.2	
35 Hexane	57	3.451	3.451	0.000	97	582647	50.0	50.0	
37 Vinyl acetate	43	3.556	3.556	0.000	97	1010201	100.0	51.9	
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	911904	50.0	52.7	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1052652	200.0	233.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	455425	50.0	50.0	
46 2,2-Dichloropropane	77	3.979	3.979	0.000	92	558612	50.0	45.7	
48 sec-Butyl Alcohol	45	4.062	4.062	0.000	99	976494	1200.0	1195.8	
50 Chlorobromomethane	128	4.144	4.144	0.000	91	206115	50.0	53.9	
51 Tetrahydrofuran	42	4.159	4.159	0.000	91	345572	100.0	117.3	
52 Chloroform	83	4.204	4.204	0.000	95	811005	50.0	52.8	
53 1,1,1-Trichloroethane	97	4.343	4.343	0.000	97	630792	50.0	52.4	
54 Cyclohexane	56	4.399	4.399	0.000	96	801822	50.0	53.5	
55 1,1-Dichloropropene	75	4.452	4.452	0.000	95	636946	50.0	52.4	
56 Carbon tetrachloride	117	4.455	4.455	0.000	96	543854	50.0	52.9	
57 Isobutyl alcohol	41	4.474	4.474	0.000	94	478732	1250.0	1383.9	
58 Benzene	78	4.602	4.602	0.000	98	1861624	50.0	51.7	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	678379	50.0	55.1	
63 n-Heptane	43	4.789	4.789	0.000	96	526000	50.0	49.1	
65 Trichloroethene	95	5.085	5.085	0.000	95	476207	50.0	55.0	
66 2-Pentanone	43	5.190	5.190	0.000	98	1277394	160.0	176.4	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	584837	50.0	54.1	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	95	536709	50.0	53.5	
70 1,4-Dioxane	88	5.336	5.336	0.000	99	114189	1000.0	915.0	
71 Dibromomethane	93	5.359	5.359	0.000	90	282066	50.0	52.3	
72 Dichlorobromomethane	83	5.482	5.482	0.000	98	640029	50.0	54.3	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	92	296385	50.0	49.4	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	93	763898	50.0	51.7	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2217171	200.0	218.9	
77 Toluene	91	6.112	6.112	0.000	97	1900039	50.0	51.0	
78 trans-1,3-Dichloropropene	75	6.292	6.292	0.000	94	693320	50.0	52.7	
79 Ethyl methacrylate	69	6.318	6.318	0.000	93	590858	50.0	51.7	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	93	387883	50.0	52.7	
81 Tetrachloroethene	164	6.551	6.551	0.000	92	292543	50.0	49.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	96	762409	50.0	54.5	
83 2-Hexanone	43	6.630	6.630	0.000	99	1553897	200.0	229.4	
84 Chlorodibromomethane	129	6.798	6.798	0.000	90	434631	50.0	52.1	
86 Ethylene Dibromide	107	6.914	6.914	0.000	98	409155	50.0	53.9	
87 1-Chlorohexane	91	7.308	7.308	0.000	89	438278	40.0	38.8	
88 Chlorobenzene	112	7.346	7.346	0.000	91	1170628	50.0	49.9	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.421	0.000	93	413080	50.0	52.1	
90 Ethylbenzene	106	7.424	7.424	0.000	99	643727	50.0	51.9	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	771993	50.0	51.3	
92 o-Xylene	106	7.900	7.900	0.000	98	777604	50.0	53.4	
93 Styrene	104	7.919	7.919	0.000	95	1335830	50.0	55.4	
94 Bromoform	173	8.099	8.099	0.000	93	280550	50.0	52.0	
95 Isopropylbenzene	105	8.241	8.241	0.000	97	1900235	50.0	51.6	
97 Cyclohexanone	55	8.335	8.335	0.000	96	574353	1500.0	1159.7	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	517370	50.0	47.8	
99 Bromobenzene	156	8.556	8.556	0.000	98	467823	50.0	50.7	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	88	169701	50.0	51.9	
101 1,2,3-Trichloropropane	110	8.590	8.590	0.000	87	157818	50.0	52.7	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	526477	50.0	51.8	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	467032	50.0	51.1	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	95	1622989	50.0	53.0	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	484977	50.0	51.1	
106 tert-Butylbenzene	119	9.122	9.122	0.000	95	1306770	50.0	52.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1707286	50.0	50.6	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	373671	50.0	53.1	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	97	876755	50.0	50.2	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1646975	50.0	49.2	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	892024	50.0	48.4	
114 n-Butylbenzene	91	9.895	9.895	0.000	98	1570361	50.0	50.4	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	96	843903	50.0	51.5	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.701	0.000	76	83235	50.0	48.9	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	380398	50.0	46.7	
119 Hexachlorobutadiene	225	11.660	11.660	0.000	97	168551	50.0	43.9	
120 Naphthalene	128	11.788	11.788	0.000	98	902338	50.0	40.1	
121 1,2,3-Trichlorobenzene	180	12.009	12.009	0.000	94	221922	50.0	38.6	
S 143 1,3-Dichloropropene, Total	1				0		100.0	104.4	
S 142 Trihalomethanes, Total	1				0		200.0	211.2	
S 141 Xylenes, Total	106				0		100.0	104.8	
S 140 1,2-Dichloroethene, Total	1				0		100.0	99.3	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6730c.D

Injection Date: 02-Aug-2023 16:22:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

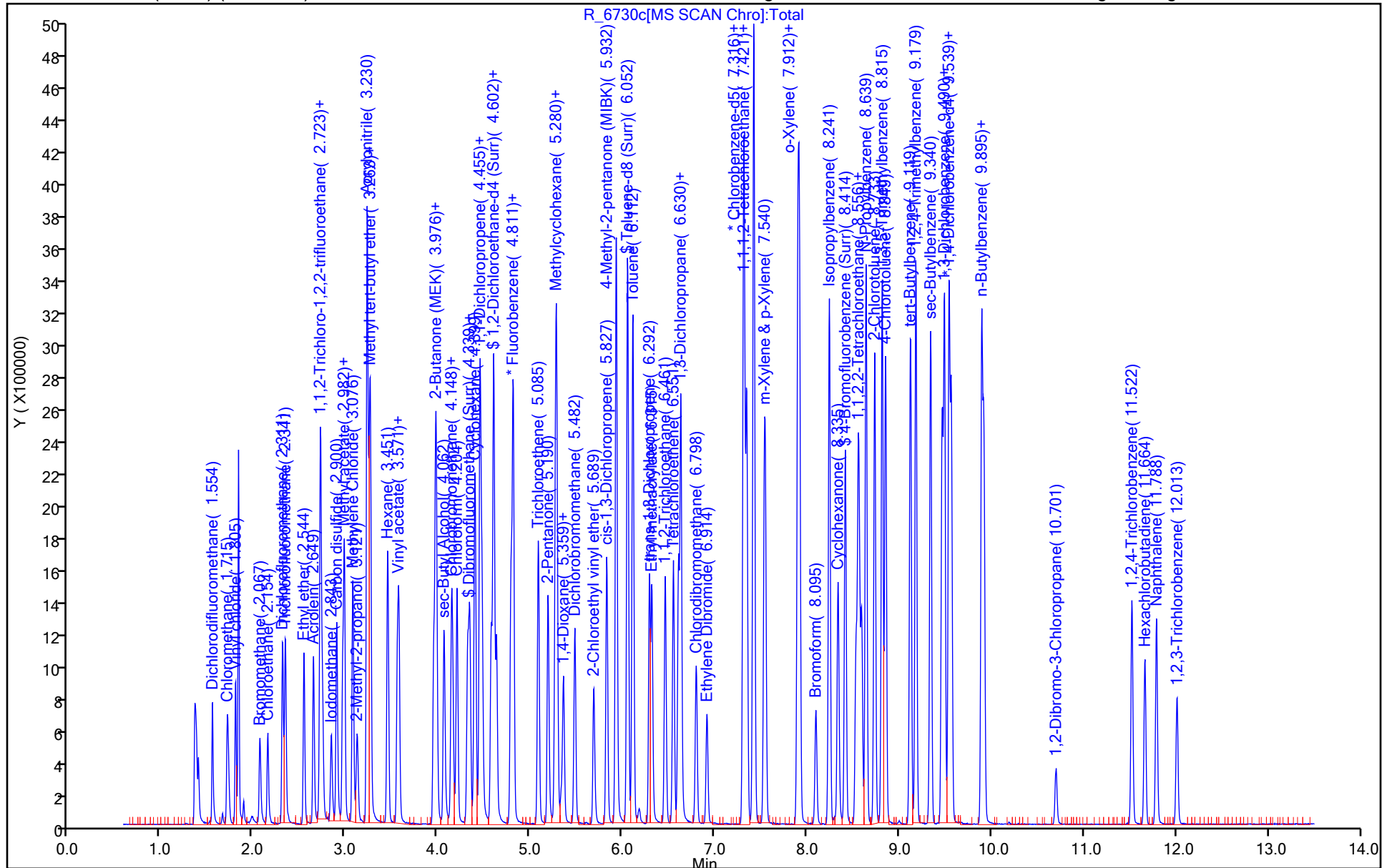
ALS Bottle#: 28

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6730c.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 02-Aug-2023 16:22:30 ALS Bottle#: 28 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc
Misc. Info.: 280-0124100-033
Operator ID: wickhamt Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1636

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.6	99.24
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.18
\$ 6 Toluene-d8 (Surr)	50.0	50.0	99.94
\$ 7 4-Bromofluorobenzene (Surr)	50.0	50.3	100.58

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-621621/5
 Matrix: Water Lab File ID: R_6731aa.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 16:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621621 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	31.1		3.0	1.2
75-05-8	Acetonitrile	368		30	9.6
126-98-7	Methacrylonitrile	343		15	5.3
80-62-6	Methyl methacrylate	44.9		4.0	1.1
107-12-0	Propionitrile	280		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	107		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	103		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6731aa.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 02-Aug-2023 16:43:30 ALS Bottle#: 29 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124100-034
 Operator ID: wickham Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1636

First Level Reviewer: J6NB

Date: 02-Aug-2023 17:40:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.812	0.000	98	1852894	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	454432	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	668667	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.317	0.000	92	499531	50.0	51.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	621888	50.0	53.4	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1958727	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	695699	50.0	53.7	
17 Ethanol	45	2.457	2.457	0.000	98	242027	1500.0	2726.1	
24 Isopropyl alcohol	45	2.832	2.832	0.000	98	150187	250.0	316.8	
27 Acetonitrile	41	2.941	2.941	0.000	99	406616	250.0	368.5	
38 Isopropyl ether	87	3.578	3.578	0.000	95	161279	25.0	24.9	
40 2-Chloro-1,3-butadiene	53	3.623	3.623	0.000	93	378158	25.0	31.1	
41 Tert-butyl ethyl ether	59	3.829	3.829	0.000	97	657182	25.0	29.3	
44 Ethyl acetate	43	3.968	3.968	0.000	99	494073	50.0	70.3	
47 Propionitrile	54	3.998	3.998	0.000	100	371107	250.0	279.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	96	1797301	250.0	343.1	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	96	549845	25.0	26.8	
64 n-Butanol	56	4.965	4.965	0.000	93	134110	625.0	561.3	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	101746	50.0	44.9	
73 2-Nitropropane	41	5.644	5.644	0.000	99	129491	50.0	64.2	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.298	0.000	0	147566	50.0	54.9	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	793812	25.0	25.8	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	222680	25.0	20.6	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 02-Aug-2023 20:22:48

Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6731aa.D

Injection Date: 02-Aug-2023 16:43:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

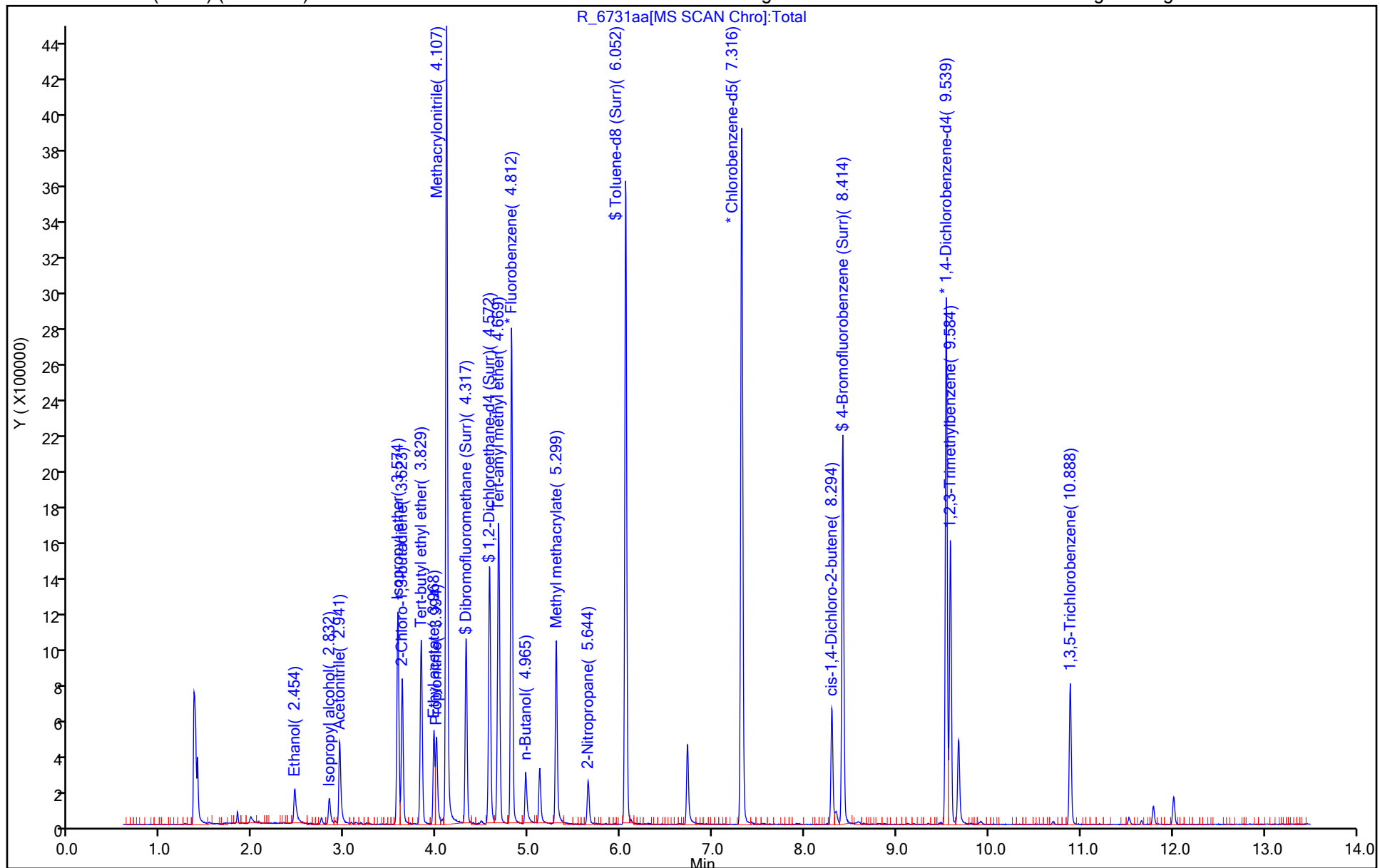
ALS Bottle#: 29

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/7/2023 6:03

PM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6731aa.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 02-Aug-2023 16:43:30 ALS Bottle#: 29 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124100-034
 Operator ID: wickhamt Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1636

First Level Reviewer: J6NB

Date: 02-Aug-2023 17:40:52

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	51.3	102.61
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.4	106.87
\$ 6 Toluene-d8 (Surr)	50.0	50.0	100.09
\$ 7 4-Bromofluorobenzene (Surr)	50.0	53.7	107.47

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621775/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6787bb.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 16:12</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	52.1		1.0	0.58
71-55-6	1,1,1-Trichloroethane	52.7		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	52.0		1.0	0.21
79-00-5	1,1,2-Trichloroethane	51.9		1.0	0.27
75-34-3	1,1-Dichloroethane	52.0		1.0	0.22
75-35-4	1,1-Dichloroethene	49.5		1.0	0.23
563-58-6	1,1-Dichloropropene	52.8		1.0	0.42
96-18-4	1,2,3-Trichloropropane	51.6		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	48.2		5.0	1.8
95-50-1	1,2-Dichlorobenzene	49.8		1.0	0.37
107-06-2	1,2-Dichloroethane	53.1		1.0	0.54
78-87-5	1,2-Dichloropropane	53.0		1.0	0.52
541-73-1	1,3-Dichlorobenzene	49.1		1.0	0.33
142-28-9	1,3-Dichloropropane	54.7		1.0	0.38
106-46-7	1,4-Dichlorobenzene	47.8		1.0	0.39
594-20-7	2,2-Dichloropropane	46.2		1.0	0.38
591-78-6	2-Hexanone	222		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	214		5.0	0.98
67-64-1	Acetone	210		15	6.6
71-43-2	Benzene	51.6		1.0	0.31
75-25-2	Bromoform	50.6		2.0	1.2
74-83-9	Bromomethane	34.5		5.0	2.4
75-15-0	Carbon disulfide	46.6		2.0	0.63
56-23-5	Carbon tetrachloride	52.6		1.0	0.57
108-90-7	Chlorobenzene	49.5		1.0	0.42
74-97-5	Chlorobromomethane	52.4		1.0	0.40
124-48-1	Chlorodibromomethane	51.2		2.0	0.62
75-00-3	Chloroethane	47.6		4.0	1.4
67-66-3	Chloroform	51.4		1.0	0.36
74-87-3	Chloromethane	48.2		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	50.0		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	52.8		2.0	0.63
74-95-3	Dibromomethane	50.8		1.0	0.34
75-27-4	Dichlorobromomethane	53.0		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-621775/4

Matrix: Water Lab File ID: R_6787bb.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 08/03/2023 16:12

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 621775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	53.5		3.0	0.96
100-41-4	Ethylbenzene	51.6		1.0	0.30
74-88-4	Iodomethane	43.7		5.0	2.6
78-83-1	Isobutyl alcohol	1260		110	37
75-09-2	Methylene Chloride	48.8		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	53.6		2.0	0.36
95-47-6	o-Xylene	53.9		1.0	0.33
100-42-5	Styrene	54.5		1.0	0.36
127-18-4	Tetrachloroethene	50.6		1.0	0.40
108-88-3	Toluene	51.1		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	48.9		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	51.9		2.0	0.65
79-01-6	Trichloroethene	51.7		1.0	0.30
75-69-4	Trichlorofluoromethane	54.0		2.0	0.57
108-05-4	Vinyl acetate	99.0		3.0	0.94
75-01-4	Vinyl chloride	51.4		2.0	0.51
1330-20-7	Xylenes, Total	108		1.0	0.33
78-93-3	2-Butanone (MEK)	228		15	6.0
107-02-8	Acrolein	481		20	4.9
107-13-1	Acrylonitrile	557		20	4.5
106-93-4	1,2-Dibromoethane	53.1		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	47.2		1.0	0.58
107-05-1	Allyl chloride	48.1		2.0	0.17
97-63-2	Ethyl methacrylate	52.7		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	49.7		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787bb.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Aug-2023 16:12:30 ALS Bottle#: 29 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-033
 Operator ID: wickham Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:09:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.815	-0.003	98	1989859	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	89	489881	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	97	788548	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.320	0.001	92	525529	50.0	50.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	663653	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2144910	50.0	50.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	789115	50.0	51.7	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	510258	50.0	53.5	
10 Chloromethane	50	1.715	1.715	0.000	99	728370	50.0	48.2	
11 Vinyl chloride	62	1.801	1.801	0.000	98	624663	50.0	51.4	
13 Bromomethane	94	2.068	2.068	0.000	91	274158	50.0	34.5	
14 Chloroethane	64	2.150	2.150	0.000	99	373052	50.0	47.6	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	916433	50.0	49.6	
16 Trichlorofluoromethane	101	2.341	2.341	0.000	99	719446	50.0	54.0	
18 Ethyl ether	59	2.547	2.547	0.000	97	436098	50.0	52.3	
20 Acrolein	56	2.649	2.649	0.000	99	673128	493.8	480.9	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.724	2.724	0.000	96	283397	50.0	51.4	
22 1,1-Dichloroethene	96	2.724	2.724	0.000	93	380349	50.0	49.5	
23 Acetone	43	2.746	2.746	0.000	99	722012	200.0	210.1	
25 Iodomethane	142	2.840	2.840	0.000	100	468858	50.0	43.7	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1417939	50.0	46.6	
28 Methyl acetate	43	2.967	2.967	0.000	99	903667	100.0	111.0	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	914150	50.0	48.1	
30 Methylene Chloride	84	3.072	3.072	0.000	99	507116	50.0	48.8	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	96	466530	500.0	523.3	
32 Acrylonitrile	53	3.230	3.230	0.000	98	2225490	500.0	557.0	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	1347806	50.0	53.4	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	447673	50.0	48.9	
35 Hexane	57	3.455	3.455	0.000	98	643725	50.0	50.6	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2154533	100.0	99.0	
39 1,1-Dichloroethane	63	3.575	3.575	0.000	96	996336	50.0	52.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1137105	200.0	227.6	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	503486	50.0	50.0	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	91	626266	50.0	46.2	
48 sec-Butyl Alcohol	45	4.066	4.066	0.000	99	1089660	1200.0	1204.9	
50 Chlorobromomethane	128	4.148	4.148	0.000	91	222200	50.0	52.4	
51 Tetrahydrofuran	42	4.156	4.156	0.000	93	386319	100.0	118.4	
52 Chloroform	83	4.204	4.204	0.000	95	873515	50.0	51.4	
53 1,1,1-Trichloroethane	97	4.343	4.343	0.000	97	702180	50.0	52.7	
54 Cyclohexane	56	4.399	4.399	0.000	96	911699	50.0	54.9	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	96	709968	50.0	52.8	
56 Carbon tetrachloride	117	4.459	4.459	0.000	96	599353	50.0	52.6	
57 Isobutyl alcohol	41	4.474	4.474	0.000	93	484162	1250.0	1264.7	
58 Benzene	78	4.602	4.602	0.000	98	2056206	50.0	51.6	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	723884	50.0	53.1	
63 n-Heptane	43	4.789	4.789	0.000	98	598778	50.0	50.5	
65 Trichloroethene	95	5.085	5.085	0.000	96	488565	50.0	51.7	
66 2-Pentanone	43	5.190	5.190	0.000	98	1393974	160.0	173.9	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	656712	50.0	54.9	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	95	588636	50.0	53.0	
70 1,4-Dioxane	88	5.336	5.336	0.000	98	123645	1000.0	894.9	
71 Dibromomethane	93	5.359	5.359	0.000	90	303397	50.0	50.8	
72 Dichlorobromomethane	83	5.483	5.483	0.000	98	691799	50.0	53.0	
74 2-Chloroethyl vinyl ether	63	5.685	5.685	0.000	92	344266	50.0	51.8	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	850623	50.0	52.8	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2399779	200.0	214.0	
77 Toluene	91	6.112	6.112	0.000	97	2107028	50.0	51.1	
78 trans-1,3-Dichloropropene	75	6.289	6.289	0.000	94	757166	50.0	51.9	
79 Ethyl methacrylate	69	6.319	6.319	0.000	93	657452	50.0	52.7	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	92	422976	50.0	51.9	
81 Tetrachloroethene	164	6.551	6.551	0.000	92	326058	50.0	50.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	94	835149	50.0	54.7	
83 2-Hexanone	43	6.630	6.630	0.000	98	1638496	200.0	221.7	
84 Chlorodibromomethane	129	6.798	6.798	0.000	91	466450	50.0	51.2	
86 Ethylene Dibromide	107	6.915	6.915	0.000	98	439918	50.0	53.1	
87 1-Chlorohexane	91	7.308	7.308	0.000	89	492704	40.0	40.0	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1269037	50.0	49.5	
89 1,1,1,2-Tetrachloroethane	131	7.417	7.417	0.000	95	450784	50.0	52.1	
90 Ethylbenzene	106	7.424	7.424	0.000	99	697963	50.0	51.6	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	879254	50.0	53.6	
92 o-Xylene	106	7.900	7.900	0.000	98	856394	50.0	53.9	
93 Styrene	104	7.915	7.915	0.000	95	1436256	50.0	54.5	
94 Bromoform	173	8.095	8.095	0.000	93	298156	50.0	50.6	
95 Isopropylbenzene	105	8.242	8.242	0.000	97	2099274	50.0	52.5	
97 Cyclohexanone	55	8.335	8.335	0.000	97	933479	1500.0	1720.9	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	610300	50.0	52.0	
99 Bromobenzene	156	8.553	8.553	0.000	97	502070	50.0	50.1	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	70	176445	50.0	49.7	
101 1,2,3-Trichloropropane	110	8.590	8.590	0.000	87	167624	50.0	51.6	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	568342	50.0	51.5	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	512281	50.0	51.5	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	95	1762586	50.0	53.0	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	527793	50.0	51.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 tert-Butylbenzene	119	9.119	9.119	0.000	95	1439238	50.0	53.0	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1870987	50.0	51.0	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	404569	50.0	52.9	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	97	931808	50.0	49.1	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1772519	50.0	48.8	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	957236	50.0	47.8	
114 n-Butylbenzene	91	9.891	9.891	0.000	98	1659252	50.0	49.0	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	886723	50.0	49.8	
116 1,2-Dibromo-3-Chloropropane	157	10.697	10.697	0.000	77	89013	50.0	48.2	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	417841	50.0	47.2	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	96	176140	50.0	42.2	
120 Naphthalene	128	11.788	11.788	0.000	98	1006694	50.0	41.1	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	246255	50.0	39.4	
S 143 1,3-Dichloropropene, Total	1				0		100.0	104.7	
S 142 Trihalomethanes, Total	1				0		200.0	206.2	
S 141 Xylenes, Total	106				0		100.0	107.5	
S 140 1,2-Dichloroethene, Total	1				0		100.0	98.9	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787bb.D

Injection Date: 03-Aug-2023 16:12:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

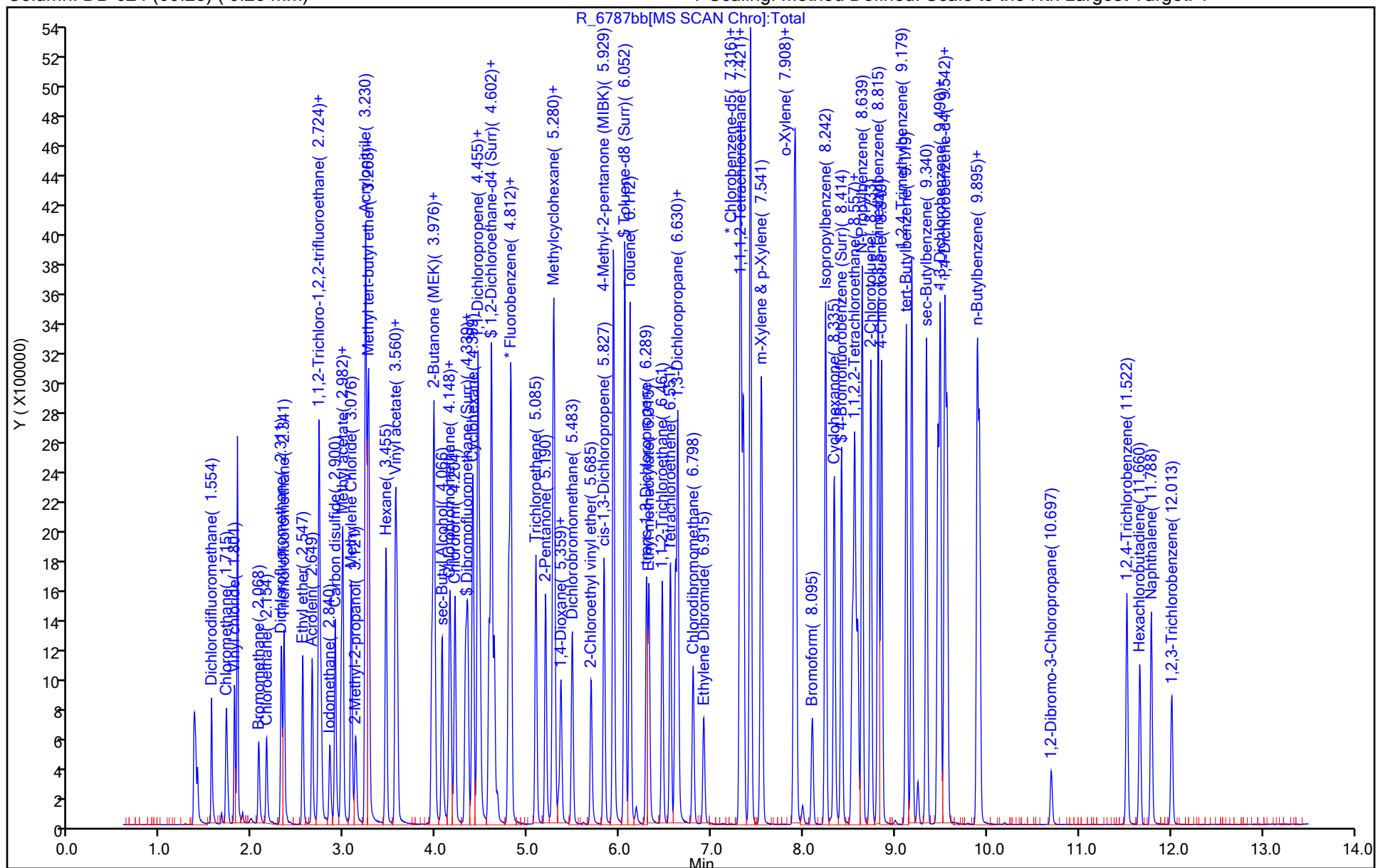
ALS Bottle#: 29

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787bb.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Aug-2023 16:12:30 ALS Bottle#: 29 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-033
 Operator ID: wickham Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:09:12

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.3	100.52
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.19
\$ 6 Toluene-d8 (Surr)	50.0	50.8	101.67
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.7	103.37

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-621775/5
 Matrix: Water Lab File ID: R_6788b.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 16:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	31.1		3.0	1.2
75-05-8	Acetonitrile	359		30	9.6
126-98-7	Methacrylonitrile	334		15	5.3
80-62-6	Methyl methacrylate	45.8		4.0	1.1
107-12-0	Propionitrile	274		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	107		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	102		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788b.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Aug-2023 16:33:30 ALS Bottle#: 30 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-034
 Operator ID: wickham Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:30:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	1961989	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	474990	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	715399	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	525995	50.0	51.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	645188	50.0	52.4	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2058646	50.0	50.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	739427	50.0	53.4	
17 Ethanol	45	2.457	2.457	0.000	100	230074	1500.0	2441.7	
24 Isopropyl alcohol	45	2.832	2.832	0.000	98	164716	250.0	328.1	
27 Acetonitrile	41	2.945	2.945	0.000	100	419209	250.0	358.8	
38 Isopropyl ether	87	3.574	3.574	0.000	95	173918	25.0	25.4	
40 2-Chloro-1,3-butadiene	53	3.627	3.627	0.000	94	400733	25.0	31.1	
41 Tert-butyl ethyl ether	59	3.833	3.833	0.000	99	717298	25.0	30.2	
44 Ethyl acetate	43	3.968	3.968	0.000	99	520043	50.0	69.9	
47 Propionitrile	54	3.998	3.998	0.000	99	384491	250.0	273.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	95	1850469	250.0	333.6	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	92	599097	25.0	27.6	
64 n-Butanol	56	4.969	4.969	0.000	91	141828	625.0	560.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	109901	50.0	45.8	
73 2-Nitropropane	41	5.647	5.647	0.000	99	130655	50.0	61.2	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.298	0.000	0	154920	50.0	53.9	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	840739	25.0	25.6	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	244769	25.0	21.1	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 23:28:05

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788b.D

Injection Date: 03-Aug-2023 16:33:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

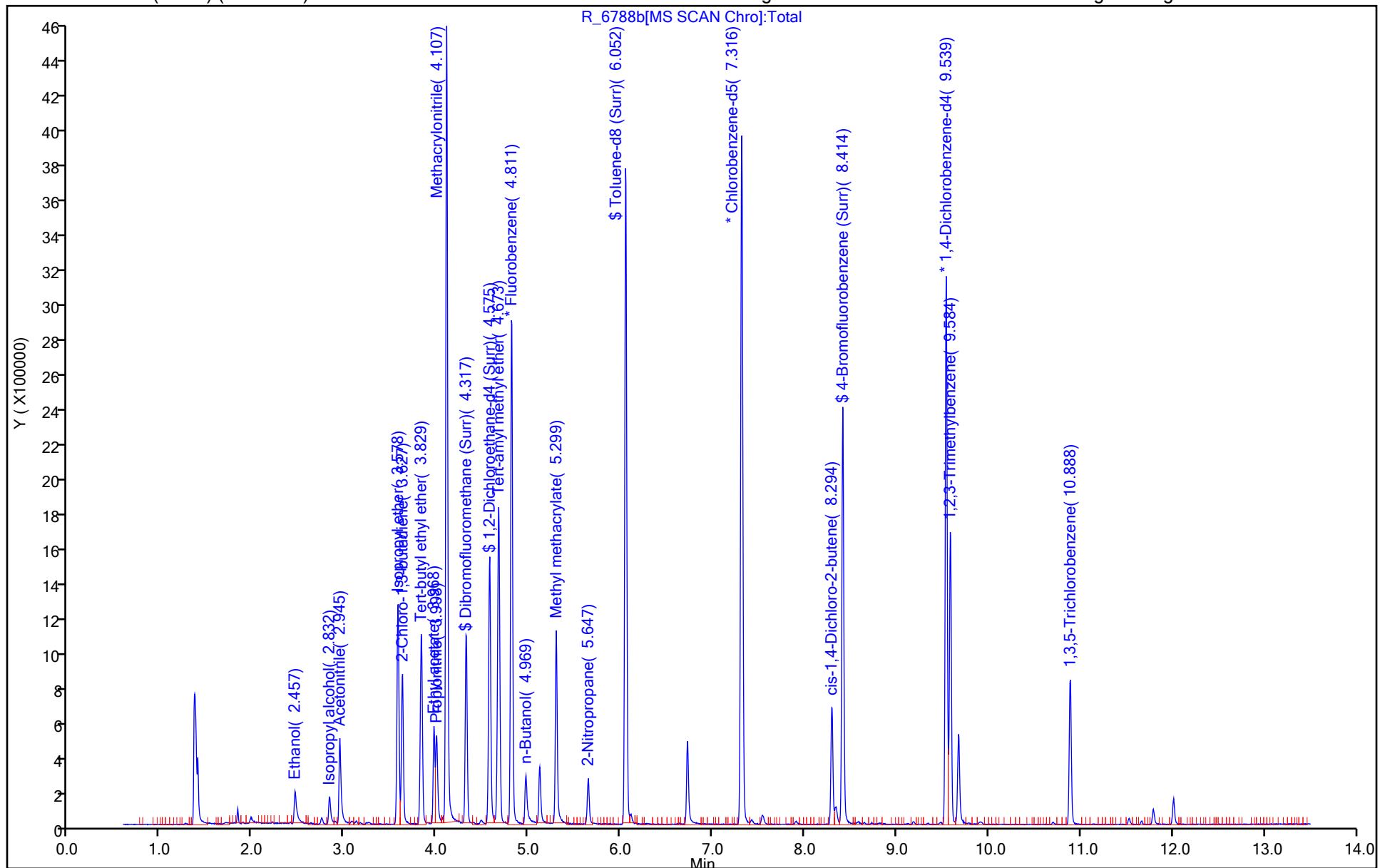
ALS Bottle#: 30

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788b.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Aug-2023 16:33:30 ALS Bottle#: 30 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-034
 Operator ID: wickhamt Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:30:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	51.0	102.04
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.4	104.70
\$ 6 Toluene-d8 (Surr)	50.0	50.3	100.64
\$ 7 4-Bromofluorobenzene (Surr)	50.0	53.4	106.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 280-621382/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS13_004052.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/01/2023 10:40</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621382</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	60.6		1.0	0.58
71-55-6	1,1,1-Trichloroethane	55.5		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	54.2		1.0	0.21
79-00-5	1,1,2-Trichloroethane	52.0		1.0	0.27
75-34-3	1,1-Dichloroethane	51.9		1.0	0.22
75-35-4	1,1-Dichloroethene	53.0		1.0	0.23
563-58-6	1,1-Dichloropropene	53.1		1.0	0.42
96-18-4	1,2,3-Trichloropropane	52.6		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	51.0		5.0	1.8
95-50-1	1,2-Dichlorobenzene	55.0		1.0	0.37
107-06-2	1,2-Dichloroethane	48.2		1.0	0.54
78-87-5	1,2-Dichloropropane	51.4		1.0	0.52
541-73-1	1,3-Dichlorobenzene	52.8		1.0	0.33
142-28-9	1,3-Dichloropropane	55.0		1.0	0.38
106-46-7	1,4-Dichlorobenzene	56.7		1.0	0.39
594-20-7	2,2-Dichloropropane	57.3		1.0	0.38
591-78-6	2-Hexanone	187		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	179		5.0	0.98
67-64-1	Acetone	174		15	6.6
71-43-2	Benzene	51.6		1.0	0.31
75-25-2	Bromoform	58.4		2.0	1.2
74-83-9	Bromomethane	55.5		5.0	2.4
75-15-0	Carbon disulfide	47.0		2.0	0.63
56-23-5	Carbon tetrachloride	57.7		1.0	0.57
108-90-7	Chlorobenzene	55.1		1.0	0.42
74-97-5	Chlorobromomethane	51.3		1.0	0.40
124-48-1	Chlorodibromomethane	61.7		2.0	0.62
75-00-3	Chloroethane	51.2		4.0	1.4
67-66-3	Chloroform	52.8		1.0	0.36
74-87-3	Chloromethane	52.6		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	49.5		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	59.5		2.0	0.63
74-95-3	Dibromomethane	49.1		1.0	0.34
75-27-4	Dichlorobromomethane	54.3		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 280-621382/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS13_004052.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/01/2023 10:40</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621382</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	56.9		3.0	0.96
100-41-4	Ethylbenzene	57.7		1.0	0.30
74-88-4	Iodomethane	52.7		5.0	2.6
78-83-1	Isobutyl alcohol	918		110	37
75-09-2	Methylene Chloride	51.9		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	57.6		2.0	0.36
95-47-6	o-Xylene	56.9		1.0	0.33
100-42-5	Styrene	57.3		1.0	0.36
127-18-4	Tetrachloroethene	57.4		1.0	0.40
108-88-3	Toluene	51.0		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	51.5		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	52.3		2.0	0.65
79-01-6	Trichloroethene	55.9		1.0	0.30
75-69-4	Trichlorofluoromethane	49.7		2.0	0.57
108-05-4	Vinyl acetate	103		3.0	0.94
75-01-4	Vinyl chloride	55.1		2.0	0.51
1330-20-7	Xylenes, Total	115		1.0	0.33
78-93-3	2-Butanone (MEK)	161		15	6.0
107-02-8	Acrolein	806		20	4.9
107-13-1	Acrylonitrile	421		20	4.5
106-93-4	1,2-Dibromoethane	55.0		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	53.5		1.0	0.58
107-05-1	Allyl chloride	49.7		2.0	0.17
97-63-2	Ethyl methacrylate	58.7		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	82.4		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	94		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004052.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 01-Aug-2023 10:40:53 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Operator ID: COULTER Instrument ID: VMS_MS13
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 13:07:45 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1684

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.180	5.181	-0.001	98	1377901	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.719	7.720	-0.001	87	315095	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.947	9.948	-0.001	95	486416	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.662	4.663	0.000	93	331041	50.0	47.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	399634	50.0	45.7	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	92	1332195	50.0	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	472290	50.0	51.5	
9 Dichlorodifluoromethane	85	1.709	1.709	0.000	99	257419	50.0	56.9	
10 Chloromethane	50	1.895	1.895	0.000	98	371730	50.0	52.6	
11 Vinyl chloride	62	1.999	1.999	0.000	98	334362	50.0	55.1	
12 Bromomethane	94	2.310	2.310	0.000	90	221046	50.0	55.5	
13 Chloroethane	64	2.393	2.393	0.000	100	232537	50.0	51.2	
14 Dichlorofluoromethane	67	2.569	2.569	0.000	97	534959	50.0	52.2	
15 Trichlorofluoromethane	101	2.590	2.590	0.000	98	387951	50.0	49.7	
18 Ethyl ether	59	2.797	2.797	0.000	94	342829	50.0	52.0	
19 Acrolein	56	2.911	2.911	0.000	99	713639	493.8	806.2	
20 1,1-Dichloroethene	96	2.994	2.994	0.000	96	289425	50.0	53.0	
22 1,1,2-Trichloro-1,2,2-trifluoro	151	3.014	3.015	-0.001	92	200952	50.0	56.4	
21 Acetone	43	3.014	3.015	-0.001	99	546099	200.0	174.2	
24 Iodomethane	142	3.118	3.118	0.000	99	481414	50.0	52.7	
25 Carbon disulfide	76	3.180	3.180	0.000	99	931375	50.0	47.0	
27 Methyl acetate	43	3.242	3.253	-0.011	98	706755	100.0	85.2	
28 3-Chloro-1-propene	41	3.263	3.274	-0.011	94	530559	50.0	49.7	
29 Methylene Chloride	84	3.367	3.367	0.000	98	335676	50.0	51.9	
30 2-Methyl-2-propanol	59	3.408	3.419	-0.011	99	585879	500.0	361.7	
31 Acrylonitrile	53	3.533	3.533	0.000	99	2010892	500.0	421.2	
32 Methyl tert-butyl ether	73	3.553	3.554	-0.001	96	949787	50.0	51.9	
33 trans-1,2-Dichloroethene	96	3.564	3.574	-0.010	97	334104	50.0	51.5	
34 Hexane	57	3.761	3.771	-0.010	87	586925	50.0	54.8	
35 Vinyl acetate	43	3.864	3.875	-0.011	97	1670672	100.0	102.7	
37 1,1-Dichloroethane	63	3.895	3.896	-0.001	96	664535	50.0	51.9	
40 2-Butanone (MEK)	43	4.289	4.289	0.000	100	1010086	200.0	161.3	
42 cis-1,2-Dichloroethene	96	4.310	4.310	0.000	82	369775	50.0	49.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2,2-Dichloropropane	77	4.320	4.320	0.000	86	377598	50.0	57.3	
45 sec-Butyl Alcohol	45	4.393	4.393	0.000	99	1163687	1200.0	964.7	
47 Chlorobromomethane	128	4.486	4.486	0.000	97	172629	50.0	51.3	
48 Tetrahydrofuran	42	4.496	4.497	-0.001	91	321570	100.0	81.6	
49 Chloroform	83	4.548	4.548	0.000	93	572225	50.0	52.8	
50 1,1,1-Trichloroethane	97	4.693	4.693	0.000	99	470011	50.0	55.5	
51 Cyclohexane	56	4.755	4.756	-0.001	90	665075	50.0	51.4	
52 1,1-Dichloropropene	75	4.807	4.807	0.000	97	460249	50.0	53.1	
53 Carbon tetrachloride	117	4.818	4.818	0.000	95	385974	50.0	57.7	
54 Isobutyl alcohol	41	4.818	4.818	0.000	98	443728	1250.0	917.7	
56 Benzene	78	4.963	4.963	0.000	97	1362214	50.0	51.6	
57 1,2-Dichloroethane	62	4.994	4.994	0.000	97	482400	50.0	48.2	
59 n-Heptane	43	5.149	5.149	0.000	91	476563	50.0	42.1	
60 Trichloroethene	95	5.450	5.450	0.000	98	353586	50.0	55.9	
61 2-Pentanone	43	5.553	5.564	-0.011	99	1315130	160.0	133.6	
62 Methylcyclohexane	55	5.647	5.647	0.000	95	514233	50.0	49.2	
64 1,2-Dichloropropane	63	5.657	5.668	-0.011	97	395523	50.0	51.4	
65 1,4-Dioxane	88	5.699	5.699	0.000	96	84850	1000.0	814.6	
66 Dibromomethane	93	5.730	5.730	0.000	95	224175	50.0	49.1	
67 Dichlorobromomethane	83	5.854	5.854	0.000	99	418912	50.0	54.3	
69 2-Chloroethyl vinyl ether	63	6.061	6.061	0.000	90	280101	50.0	46.2	
70 cis-1,3-Dichloropropene	75	6.206	6.207	0.000	97	525969	50.0	59.5	
71 4-Methyl-2-pentanone (MIBK)	43	6.310	6.310	0.000	94	2054857	200.0	179.1	
72 Toluene	91	6.496	6.497	-0.001	99	1433464	50.0	51.0	
73 trans-1,3-Dichloropropene	75	6.673	6.673	0.000	95	509104	50.0	52.3	
74 Ethyl methacrylate	69	6.693	6.694	-0.001	90	516327	50.0	58.7	
75 1,1,2-Trichloroethane	97	6.849	6.849	0.000	92	317237	50.0	52.0	
76 Tetrachloroethene	164	6.942	6.942	0.000	96	265325	50.0	57.4	
77 1,3-Dichloropropane	76	7.004	7.004	0.000	93	551371	50.0	55.0	
78 2-Hexanone	43	7.015	7.015	0.000	94	1553025	200.0	187.1	
79 Chlorodibromomethane	129	7.191	7.191	0.000	91	315381	50.0	61.7	
80 Ethylene Dibromide	107	7.315	7.315	0.000	99	329827	50.0	55.0	
81 1-Chlorohexane	91	7.709	7.709	0.000	96	399765	40.0	46.5	
82 Chlorobenzene	112	7.750	7.751	-0.001	96	959238	50.0	55.1	
83 1,1,1,2-Tetrachloroethane	131	7.823	7.823	0.000	96	298205	50.0	60.6	
84 Ethylbenzene	106	7.823	7.823	0.000	98	519845	50.0	57.7	
85 m-Xylene & p-Xylene	106	7.937	7.937	0.000	99	651986	50.0	57.6	
86 o-Xylene	106	8.300	8.300	0.000	96	627324	50.0	56.9	
87 Styrene	104	8.320	8.321	-0.001	96	1065652	50.0	57.3	
88 Bromoform	173	8.497	8.497	0.000	96	195570	50.0	58.4	
89 Isopropylbenzene	105	8.642	8.642	0.000	96	1616957	50.0	59.1	
91 Cyclohexanone	55	8.745	8.745	0.000	90	941812	1500.0	1414.3	
92 1,1,2,2-Tetrachloroethane	83	8.932	8.932	0.000	94	472939	50.0	54.2	
93 Bromobenzene	156	8.963	8.963	0.000	97	369226	50.0	54.2	
94 trans-1,4-Dichloro-2-butene	53	8.973	8.973	0.000	80	140685	50.0	82.4	
95 1,2,3-Trichloropropane	110	8.994	8.994	0.000	86	148019	50.0	52.6	
96 N-Propylbenzene	120	9.046	9.046	0.000	99	436345	50.0	57.0	
97 2-Chlorotoluene	126	9.139	9.139	0.000	96	370021	50.0	58.4	
98 1,3,5-Trimethylbenzene	105	9.222	9.222	0.000	94	1309082	50.0	57.3	
99 4-Chlorotoluene	126	9.263	9.264	-0.001	97	388572	50.0	56.7	
101 tert-Butylbenzene	119	9.533	9.533	0.000	93	1116061	50.0	56.2	
102 1,2,4-Trimethylbenzene	105	9.585	9.585	0.000	97	1345703	50.0	57.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 sec-Butylbenzene	134	9.751	9.751	0.000	94	327991	50.0	56.7	
104 1,3-Dichlorobenzene	146	9.875	9.875	0.000	98	711927	50.0	52.8	
105 4-Isopropyltoluene	119	9.896	9.896	0.000	97	1395671	50.0	56.1	
106 1,4-Dichlorobenzene	146	9.979	9.979	-0.001	95	718839	50.0	56.7	
108 n-Butylbenzene	91	10.300	10.300	0.000	98	1249674	50.0	52.8	
109 1,2-Dichlorobenzene	146	10.331	10.331	0.000	98	681159	50.0	55.0	
110 1,2-Dibromo-3-Chloropropane	157	11.118	11.119	-0.001	85	102291	50.0	51.0	
112 1,2,4-Trichlorobenzene	180	11.948	11.948	0.000	94	424943	50.0	53.5	
113 Hexachlorobutadiene	225	12.082	12.082	0.000	98	152140	50.0	46.5	
114 Naphthalene	128	12.217	12.217	0.000	97	1495971	50.0	47.9	
115 1,2,3-Trichlorobenzene	180	12.435	12.435	0.000	96	403016	50.0	51.7	
127 Butadiene	54		0.000				ND	ND	
S 133 1,2-Dichloroethene, Total	1				0		100.0	101.0	
S 131 1,3-Dichloropropene, Total	1				0		100.0	111.7	
S 129 Trihalomethanes, Total	1				0		200.0	227.3	
S 128 Xylenes, Total	106				0		100.0	114.6	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

MV-Gas B_00141

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004052.D

Injection Date: 01-Aug-2023 10:40:53

Instrument ID: VMS_MS13

Lims ID: LCSD

Client ID:

Operator ID: COULTER

ALS Bottle#: 0

Worklist Smp#: 6

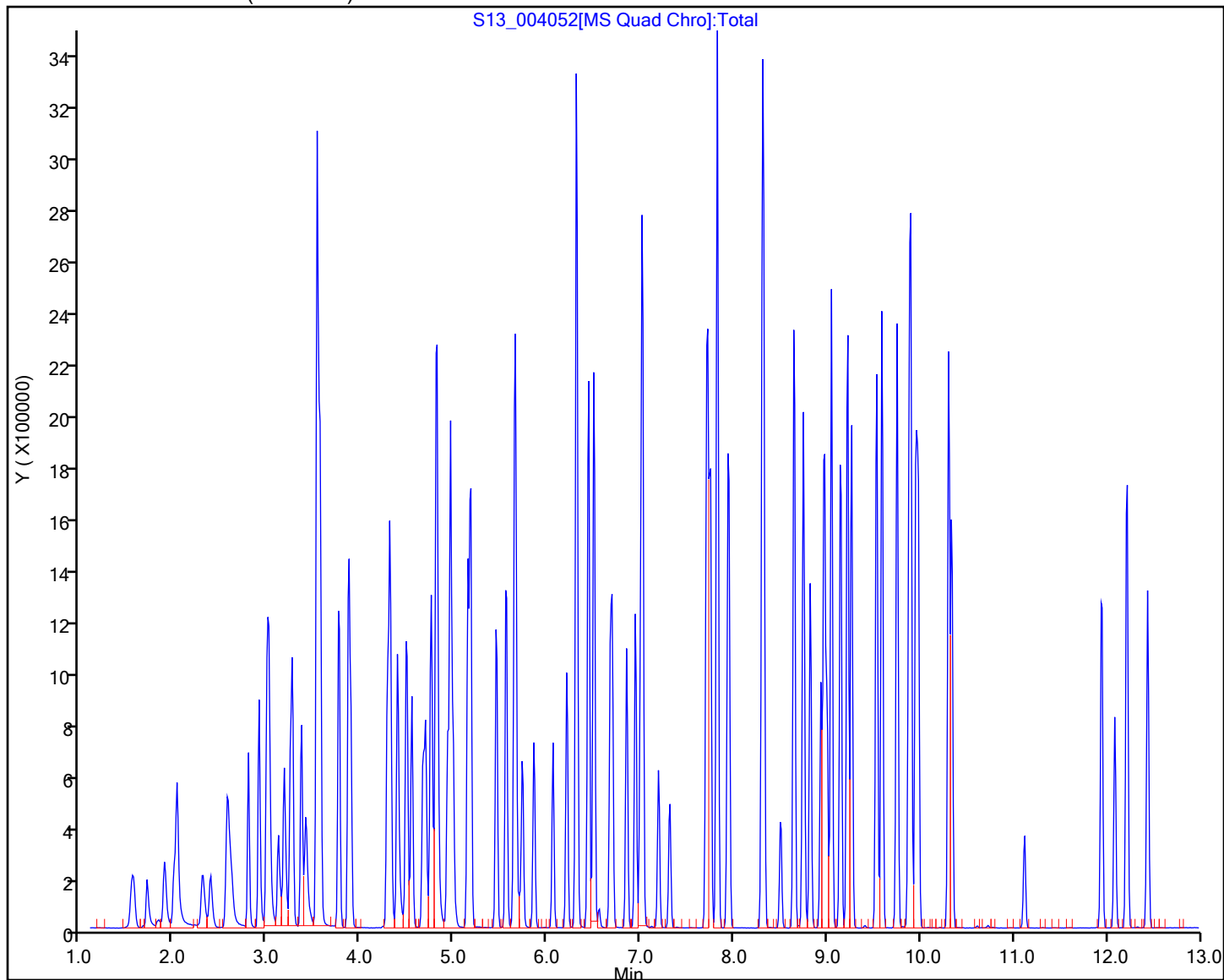
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004052.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Aug-2023 10:40:53 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Operator ID: COULTER Instrument ID: VMS_MS13
Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2023 13:07:45 Calib Date: 11-Jul-2023 01:38:26
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
Process Host: CTX1684

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	47.0	94.03
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	45.7	91.33
\$ 6 Toluene-d8 (Surr)	50.0	50.2	100.43
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.5	103.07

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-621382/7
 Matrix: Water Lab File ID: MS13_004053.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/01/2023 11:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621382 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	19.6		3.0	1.2
75-05-8	Acetonitrile	153		30	9.6
126-98-7	Methacrylonitrile	184		15	5.3
80-62-6	Methyl methacrylate	40.5		4.0	1.1
107-12-0	Propionitrile	163		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	99		80-125
1868-53-7	Dibromofluoromethane (Surr)	93		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004053.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 01-Aug-2023 11:03:15 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Operator ID: COULTER Instrument ID: VMS_MS13
 Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 16:41:37 Calib Date: 11-Jul-2023 01:38:26
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
 Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
 Process Host: CTX1677

First Level Reviewer: J6NB

Date: 01-Aug-2023 16:55:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.181	5.181	0.000	99	1330415	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.720	7.720	0.000	87	302552	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.948	9.948	0.000	95	470228	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.662	4.663	0.000	93	316734	50.0	46.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.932	4.932	0.000	96	382012	50.0	45.2	
\$ 6 Toluene-d8 (Surr)	98	6.445	6.445	0.000	93	1266609	50.0	49.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.818	8.818	0.000	87	456305	50.0	51.5	
16 Ethanol	45	2.693	2.694	-0.001	99	96333	1500.0	778.8	
23 Isopropyl alcohol	45	3.098	3.098	0.000	100	112226	250.0	142.2	
26 Acetonitrile	41	3.232	3.232	0.000	98	217914	250.0	152.8	
36 Isopropyl ether	87	3.896	3.885	0.011	97	124491	25.0	21.1	
38 2-Chloro-1,3-butadiene	53	3.947	3.947	0.000	91	234529	25.0	19.6	
39 Tert-butyl ethyl ether	59	4.155	4.155	0.000	99	498684	25.0	20.8	
41 Ethyl acetate	43	4.300	4.300	0.000	99	438801	50.0	38.8	
44 Propionitrile	54	4.331	4.331	0.000	99	329420	250.0	163.0	
46 Methacrylonitrile	41	4.445	4.445	0.000	91	1121757	250.0	184.4	
55 n-Butanol	56	5.025	5.025	0.000	49	154795	625.0	389.7	
58 Tert-amyl methyl ether	73	5.025	5.025	0.000	89	428691	25.0	20.9	
63 Methyl methacrylate	100	5.668	5.668	0.000	94	103699	50.0	40.5	
68 2-Nitropropane	41	6.030	6.030	0.000	98	50661	50.0	31.3	
90 cis-1,4-Dichloro-2-butene	53	8.694	8.694	0.000	93	109378	50.0	76.0	
107 1,2,3-Trimethylbenzene	105	9.999	10.000	-0.001	98	576613	25.0	24.1	
111 1,3,5-Trichlorobenzene	180	11.305	11.305	0.000	97	193606	25.0	22.0	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00064

Amount Added: 25.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004053.D

Injection Date: 01-Aug-2023 11:03:15

Instrument ID: VMS_MS13

Lims ID: LCSD

Client ID:

Operator ID: COULTER

ALS Bottle#: 0

Worklist Smp#: 7

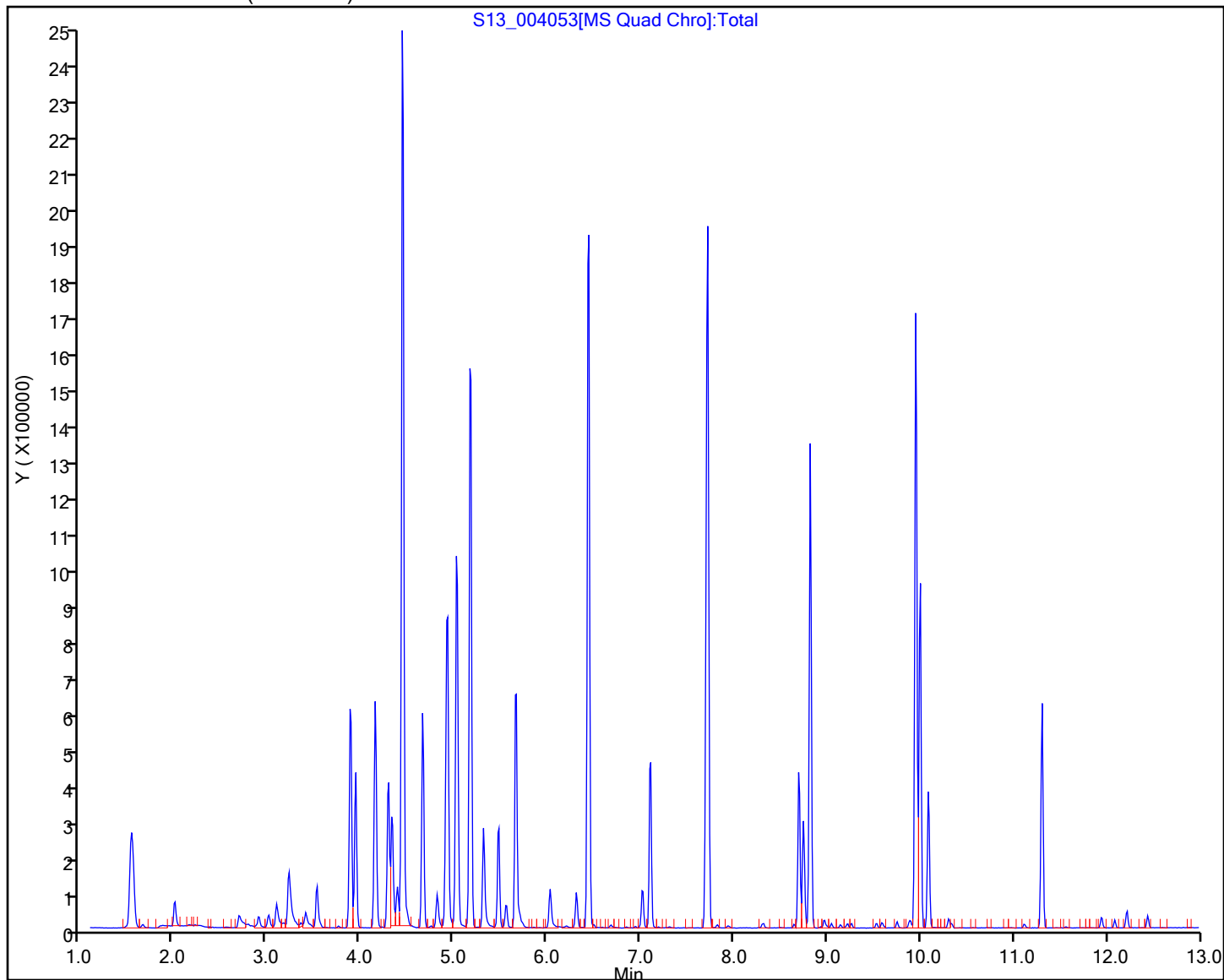
Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS13_8260

Limit Group: MSV - 8260B Water and Solid

Column: Rxi-624Sil MS (0.25 mm)



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\VMS13_004053.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 01-Aug-2023 11:03:15 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Operator ID: COULTER Instrument ID: VMS_MS13
Method: \\chromfs\Denver\ChromData\VMS_MS13\20230801-124057.b\AQ_VMS13_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2023 16:41:37 Calib Date: 11-Jul-2023 01:38:26
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS13\20230710-123383.b\VMS13_003265.D
Column 1 : Rxi-624Sil MS (0.25 mm) Det: MS Quad
Process Host: CTX1677

First Level Reviewer: J6NB

Date: 01-Aug-2023 16:55:38

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	46.6	93.18
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	45.2	90.42
\$ 6 Toluene-d8 (Surr)	50.0	49.7	99.45
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.5	103.01

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-621621/6

Matrix: Water Lab File ID: R_6732.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 17:21

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 621621 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	49.9		1.0	0.58
71-55-6	1,1,1-Trichloroethane	53.3		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	50.5		1.0	0.21
79-00-5	1,1,2-Trichloroethane	51.4		1.0	0.27
75-34-3	1,1-Dichloroethane	51.1		1.0	0.22
75-35-4	1,1-Dichloroethene	50.3		1.0	0.23
563-58-6	1,1-Dichloropropene	53.7		1.0	0.42
96-18-4	1,2,3-Trichloropropane	48.1		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	41.3		5.0	1.8
95-50-1	1,2-Dichlorobenzene	48.8		1.0	0.37
107-06-2	1,2-Dichloroethane	52.8		1.0	0.54
78-87-5	1,2-Dichloropropane	51.9		1.0	0.52
541-73-1	1,3-Dichlorobenzene	48.0		1.0	0.33
142-28-9	1,3-Dichloropropane	51.3		1.0	0.38
106-46-7	1,4-Dichlorobenzene	47.1		1.0	0.39
594-20-7	2,2-Dichloropropane	54.9		1.0	0.38
591-78-6	2-Hexanone	204		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	207		5.0	0.98
67-64-1	Acetone	205		15	6.6
71-43-2	Benzene	51.2		1.0	0.31
75-25-2	Bromoform	46.8		2.0	1.2
74-83-9	Bromomethane	38.8		5.0	2.4
75-15-0	Carbon disulfide	47.2		2.0	0.63
56-23-5	Carbon tetrachloride	54.5		1.0	0.57
108-90-7	Chlorobenzene	47.7		1.0	0.42
74-97-5	Chlorobromomethane	50.9		1.0	0.40
124-48-1	Chlorodibromomethane	49.5		2.0	0.62
75-00-3	Chloroethane	45.0		4.0	1.4
67-66-3	Chloroform	51.8		1.0	0.36
74-87-3	Chloromethane	42.4		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	49.8		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	50.8		2.0	0.63
74-95-3	Dibromomethane	50.5		1.0	0.34
75-27-4	Dichlorobromomethane	53.2		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-621621/6

Matrix: Water Lab File ID: R_6732.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 08/02/2023 17:21

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 621621 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	44.0		3.0	0.96
100-41-4	Ethylbenzene	49.4		1.0	0.30
74-88-4	Iodomethane	49.2		5.0	2.6
78-83-1	Isobutyl alcohol	1200		110	37
75-09-2	Methylene Chloride	48.1		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	49.6		2.0	0.36
95-47-6	o-Xylene	51.2		1.0	0.33
100-42-5	Styrene	52.3		1.0	0.36
127-18-4	Tetrachloroethene	49.8		1.0	0.40
108-88-3	Toluene	50.1		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	49.2		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	53.4		2.0	0.65
79-01-6	Trichloroethene	47.7		1.0	0.30
75-69-4	Trichlorofluoromethane	50.2		2.0	0.57
108-05-4	Vinyl acetate	104		3.0	0.94
75-01-4	Vinyl chloride	47.8		2.0	0.51
1330-20-7	Xylenes, Total	101		1.0	0.33
78-93-3	2-Butanone (MEK)	217		15	6.0
107-02-8	Acrolein	496		20	4.9
107-13-1	Acrylonitrile	528		20	4.5
106-93-4	1,2-Dibromoethane	49.3		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	44.6		1.0	0.58
107-05-1	Allyl chloride	50.1		2.0	0.17
97-63-2	Ethyl methacrylate	48.4		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	51.4		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	98		80-125
1868-53-7	Dibromofluoromethane (Surr)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6732.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 02-Aug-2023 17:21:30 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcsd m
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1636

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.812	-0.001	98	1844290	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	473762	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	-0.001	97	756195	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.317	0.000	91	491575	50.0	50.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	622667	50.0	53.7	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1992871	50.0	48.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	744874	50.0	50.9	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	389359	50.0	44.0	
10 Chloromethane	50	1.711	1.715	-0.004	99	594609	50.0	42.4	
11 Vinyl chloride	62	1.805	1.805	0.000	98	538224	50.0	47.8	
13 Bromomethane	94	2.067	2.067	0.000	92	285968	50.0	38.8	
14 Chloroethane	64	2.154	2.154	0.000	99	326740	50.0	45.0	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	815347	50.0	47.7	
16 Trichlorofluoromethane	101	2.341	2.345	-0.004	98	619974	50.0	50.2	
18 Ethyl ether	59	2.544	2.544	0.000	95	390609	50.0	50.5	
20 Acrolein	56	2.649	2.649	-0.001	99	643356	493.8	495.9	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.723	2.720	0.003	97	263992	50.0	51.6	
22 1,1-Dichloroethene	96	2.723	2.723	0.000	95	357741	50.0	50.3	
23 Acetone	43	2.746	2.746	0.000	99	655261	200.0	205.5	
25 Iodomethane	142	2.840	2.843	-0.003	100	489227	50.0	49.2	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1329961	50.0	47.2	
28 Methyl acetate	43	2.963	2.963	0.000	99	807354	100.0	107.0	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	882791	50.0	50.1	
30 Methylene Chloride	84	3.072	3.076	-0.004	98	463013	50.0	48.1	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	95	391045	500.0	473.2	
32 Acrylonitrile	53	3.230	3.230	0.000	98	1956092	500.0	528.3	
33 Methyl tert-butyl ether	73	3.252	3.256	-0.004	98	1200256	50.0	51.3	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	416941	50.0	49.2	
35 Hexane	57	3.451	3.451	0.000	97	643688	50.0	52.3	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2099635	100.0	104.0	
39 1,1-Dichloroethane	63	3.571	3.574	-0.003	96	907689	50.0	51.1	
43 2-Butanone (MEK)	43	3.949	3.953	-0.004	99	1005316	200.0	217.1	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	465487	50.0	49.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 2,2-Dichloropropane	77	3.979	3.979	0.000	91	689724	50.0	54.9	
48 sec-Butyl Alcohol	45	4.062	4.062	0.000	99	928301	1200.0	1108.5	
50 Chlorobromomethane	128	4.144	4.144	0.000	91	200104	50.0	50.9	
51 Tetrahydrofuran	42	4.155	4.159	-0.004	92	335748	100.0	111.1	
52 Chloroform	83	4.204	4.204	0.000	95	815669	50.0	51.8	
53 1,1,1-Trichloroethane	97	4.343	4.343	0.000	97	657777	50.0	53.3	
54 Cyclohexane	56	4.399	4.399	0.000	96	849318	50.0	55.2	
55 1,1-Dichloropropene	75	4.452	4.452	0.000	96	669419	50.0	53.7	
56 Carbon tetrachloride	117	4.455	4.455	0.000	97	575129	50.0	54.5	
57 Isobutyl alcohol	41	4.474	4.474	0.000	95	426738	1250.0	1203.2	
58 Benzene	78	4.602	4.602	0.000	98	1889717	50.0	51.2	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	667319	50.0	52.8	
63 n-Heptane	43	4.789	4.789	0.000	96	625191	50.0	56.9	
65 Trichloroethene	95	5.085	5.085	0.000	96	436343	50.0	47.7	
66 2-Pentanone	43	5.190	5.190	0.000	98	1214586	160.0	163.6	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	636873	50.0	57.4	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	93	533799	50.0	51.9	
70 1,4-Dioxane	88	5.336	5.336	0.000	97	104905	1000.0	820.1	
71 Dibromomethane	93	5.359	5.359	0.000	89	279749	50.0	50.5	
72 Dichlorobromomethane	83	5.479	5.482	-0.003	98	644519	50.0	53.2	
74 2-Chloroethyl vinyl ether	63	5.685	5.689	-0.004	93	287510	50.0	46.7	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	791798	50.0	50.8	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2151221	200.0	207.0	
77 Toluene	91	6.112	6.112	0.000	97	1916580	50.0	50.1	
78 trans-1,3-Dichloropropene	75	6.292	6.292	0.000	93	721824	50.0	53.4	
79 Ethyl methacrylate	69	6.315	6.318	-0.003	94	582610	50.0	48.4	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	92	388222	50.0	51.4	
81 Tetrachloroethene	164	6.551	6.551	0.000	93	309885	50.0	49.8	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	95	758041	50.0	51.3	
83 2-Hexanone	43	6.630	6.630	0.000	98	1458260	200.0	204.1	
84 Chlorodibromomethane	129	6.798	6.798	0.000	90	436096	50.0	49.5	
86 Ethylene Dibromide	107	6.914	6.914	0.000	98	394987	50.0	49.3	
87 1-Chlorohexane	91	7.308	7.308	0.000	88	472603	40.0	39.7	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1181626	50.0	47.7	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.421	0.000	93	417901	50.0	49.9	
90 Ethylbenzene	106	7.424	7.424	0.000	99	645887	50.0	49.4	
91 m-Xylene & p-Xylene	106	7.540	7.544	-0.004	0	786829	50.0	49.6	
92 o-Xylene	106	7.900	7.900	0.000	98	786900	50.0	51.2	
93 Styrene	104	7.919	7.919	0.000	94	1332301	50.0	52.3	
94 Bromoform	173	8.095	8.099	-0.004	92	266354	50.0	46.8	
95 Isopropylbenzene	105	8.241	8.241	0.000	97	1985232	50.0	51.7	
97 Cyclohexanone	55	8.335	8.335	0.000	97	901926	1500.0	1719.3	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	93	568413	50.0	50.5	
99 Bromobenzene	156	8.556	8.556	0.000	97	466422	50.0	48.6	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.568	0.003	73	175169	50.0	51.4	
101 1,2,3-Trichloropropane	110	8.590	8.590	0.000	86	149838	50.0	48.1	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	546590	50.0	51.6	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	479336	50.0	50.3	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	95	1669521	50.0	52.4	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	497627	50.0	50.4	
106 tert-Butylbenzene	119	9.122	9.122	0.000	94	1345648	50.0	51.7	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1712476	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	393685	50.0	53.7	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	96	872683	50.0	48.0	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1705205	50.0	48.9	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	904116	50.0	47.1	
114 n-Butylbenzene	91	9.895	9.895	0.000	99	1626352	50.0	50.1	
115 1,2-Dichlorobenzene	146	9.921	9.917	0.004	95	832503	50.0	48.8	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.701	0.000	74	73147	50.0	41.3	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	378269	50.0	44.6	
119 Hexachlorobutadiene	225	11.664	11.660	0.004	95	174202	50.0	43.6	
120 Naphthalene	128	11.788	11.788	0.000	98	849412	50.0	36.2	
121 1,2,3-Trichlorobenzene	180	12.013	12.009	0.004	94	206025	50.0	34.5	
S 143 1,3-Dichloropropene, Total	1				0		100.0	104.2	
S 142 Trihalomethanes, Total	1				0		200.0	201.3	
S 141 Xylenes, Total	106				0		100.0	100.8	
S 140 1,2-Dichloroethene, Total	1				0		100.0	99.0	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 02-Aug-2023 20:22:50

Chrom Revision: 2.3 19-Jul-2023 18:28:48

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6732.D

Injection Date: 02-Aug-2023 17:21:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

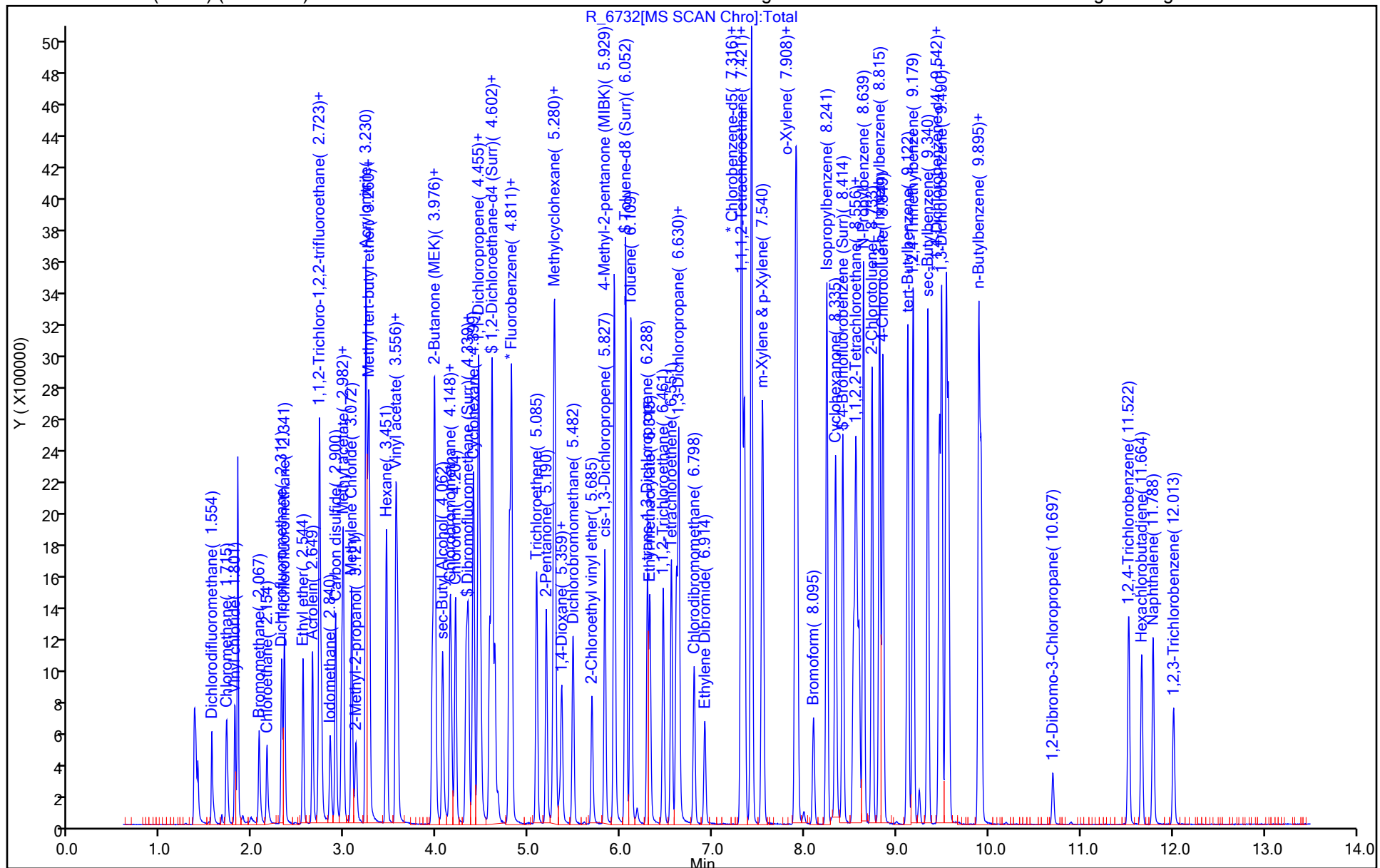
ALS Bottle#: 1

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6732.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 02-Aug-2023 17:21:30 ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd m
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1636

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.7	101.45
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.7	107.50
\$ 6 Toluene-d8 (Surr)	50.0	48.8	97.68
\$ 7 4-Bromofluorobenzene (Surr)	50.0	50.9	101.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-621621/7
 Matrix: Water Lab File ID: R_6733.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/02/2023 17:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621621 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	33.7		3.0	1.2
75-05-8	Acetonitrile	363		30	9.6
126-98-7	Methacrylonitrile	342		15	5.3
80-62-6	Methyl methacrylate	46.4		4.0	1.1
107-12-0	Propionitrile	277		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-127
460-00-4	4-Bromofluorobenzene (Surr)	107		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	102		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6733.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 02-Aug-2023 17:42:30 ALS Bottle#: 2 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcsd s
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1636

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.812	-0.001	98	1871729	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	455985	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.539	0.003	98	678077	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.317	0.003	92	500867	50.0	50.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	640435	50.0	54.5	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.052	0.004	95	1963819	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	704377	50.0	53.6	
17 Ethanol	45	2.457	2.457	0.000	98	214645	1500.0	2386.5	
24 Isopropyl alcohol	45	2.832	2.832	0.000	98	139777	250.0	291.8	
27 Acetonitrile	41	2.945	2.941	0.004	100	405107	250.0	363.4	
38 Isopropyl ether	87	3.578	3.578	0.000	95	162121	25.0	24.8	
40 2-Chloro-1,3-butadiene	53	3.627	3.623	0.004	93	413932	25.0	33.7	
41 Tert-butyl ethyl ether	59	3.833	3.829	0.004	97	664391	25.0	29.3	
44 Ethyl acetate	43	3.968	3.968	0.000	99	497697	50.0	70.1	
47 Propionitrile	54	3.998	3.998	0.000	99	371484	250.0	277.1	
49 Methacrylonitrile	41	4.107	4.107	0.000	96	1811544	250.0	342.3	
61 Tert-amyl methyl ether	73	4.677	4.673	0.004	96	562602	25.0	27.1	
64 n-Butanol	56	4.969	4.965	0.004	92	130472	625.0	541.8	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	106343	50.0	46.4	
73 2-Nitropropane	41	5.647	5.644	0.003	98	140493	50.0	68.9	
96 cis-1,4-Dichloro-2-butene	53	8.294	8.298	-0.004	0	158368	50.0	58.1	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	796336	25.0	25.6	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	234388	25.0	21.3	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6733.D

Injection Date: 02-Aug-2023 17:42:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: LCSD

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

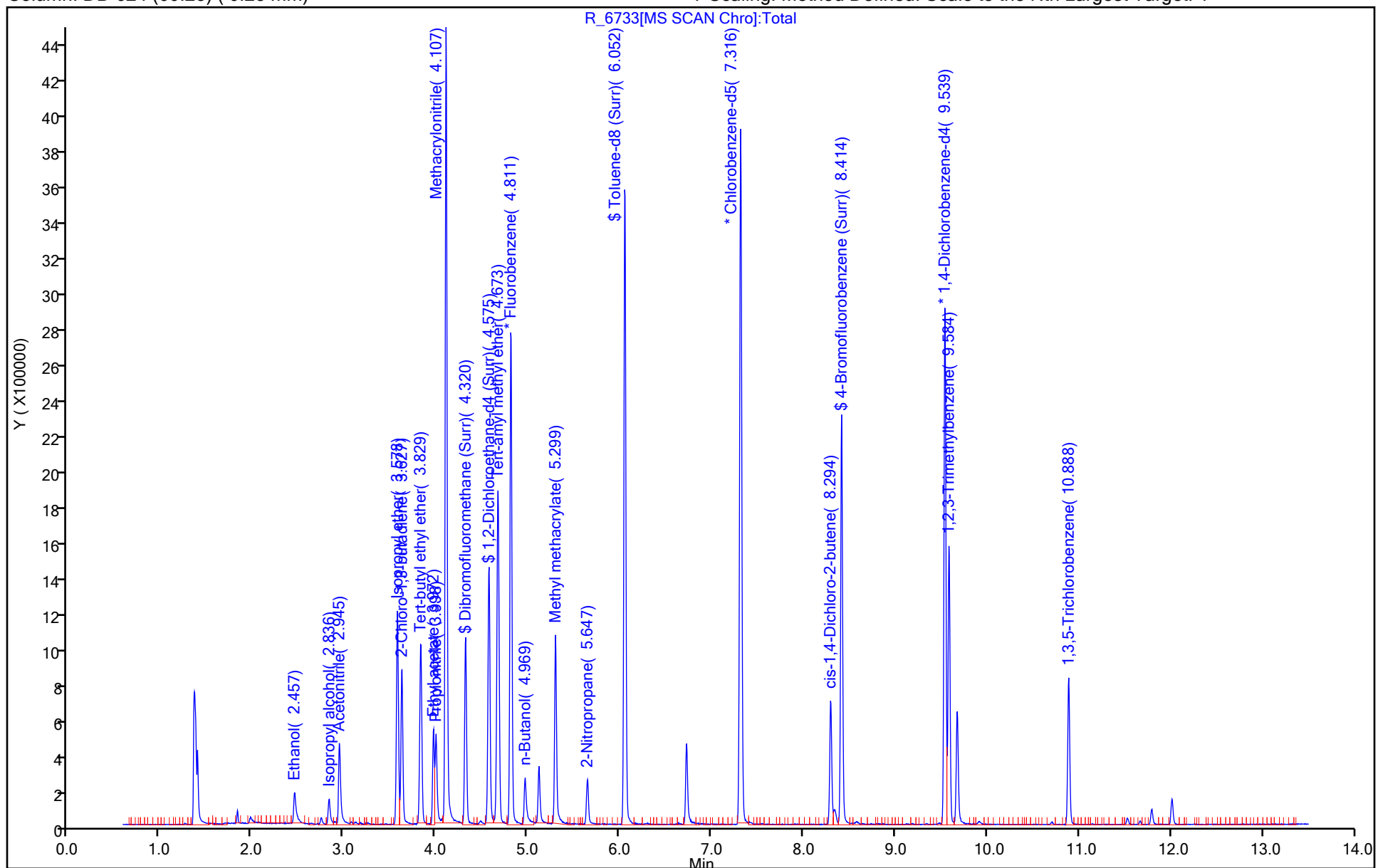
ALS Bottle#: 2

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\R_6733.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 02-Aug-2023 17:42:30 ALS Bottle#: 2 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd s
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230802-124131.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 02-Aug-2023 20:22:43 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1636

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.9	101.85
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	54.5	108.95
\$ 6 Toluene-d8 (Surr)	50.0	50.0	100.00
\$ 7 4-Bromofluorobenzene (Surr)	50.0	53.6	107.30

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 280-621775/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6789.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 17:14</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	50.5		1.0	0.58
71-55-6	1,1,1-Trichloroethane	48.5		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	53.0		1.0	0.21
79-00-5	1,1,2-Trichloroethane	52.5		1.0	0.27
75-34-3	1,1-Dichloroethane	49.2		1.0	0.22
75-35-4	1,1-Dichloroethene	44.0		1.0	0.23
563-58-6	1,1-Dichloropropene	48.5		1.0	0.42
96-18-4	1,2,3-Trichloropropane	51.6		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	47.3		5.0	1.8
95-50-1	1,2-Dichlorobenzene	50.0		1.0	0.37
107-06-2	1,2-Dichloroethane	53.5		1.0	0.54
78-87-5	1,2-Dichloropropane	51.8		1.0	0.52
541-73-1	1,3-Dichlorobenzene	48.7		1.0	0.33
142-28-9	1,3-Dichloropropane	53.2		1.0	0.38
106-46-7	1,4-Dichlorobenzene	47.8		1.0	0.39
594-20-7	2,2-Dichloropropane	51.1		1.0	0.38
591-78-6	2-Hexanone	224		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	218		5.0	0.98
67-64-1	Acetone	219		15	6.6
71-43-2	Benzene	49.4		1.0	0.31
75-25-2	Bromoform	51.2		2.0	1.2
74-83-9	Bromomethane	34.5		5.0	2.4
75-15-0	Carbon disulfide	39.4		2.0	0.63
56-23-5	Carbon tetrachloride	48.2		1.0	0.57
108-90-7	Chlorobenzene	48.3		1.0	0.42
74-97-5	Chlorobromomethane	51.7		1.0	0.40
124-48-1	Chlorodibromomethane	51.9		2.0	0.62
75-00-3	Chloroethane	40.4		4.0	1.4
67-66-3	Chloroform	50.6		1.0	0.36
74-87-3	Chloromethane	37.7		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	48.9		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	53.2		2.0	0.63
74-95-3	Dibromomethane	51.3		1.0	0.34
75-27-4	Dichlorobromomethane	53.1		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-621775/6

Matrix: Water Lab File ID: R_6789.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 08/03/2023 17:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 621775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	33.8		3.0	0.96
100-41-4	Ethylbenzene	49.2		1.0	0.30
74-88-4	Iodomethane	42.2		5.0	2.6
78-83-1	Isobutyl alcohol	1320		110	37
75-09-2	Methylene Chloride	48.4		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	49.9		2.0	0.36
95-47-6	o-Xylene	51.6		1.0	0.33
100-42-5	Styrene	53.1		1.0	0.36
127-18-4	Tetrachloroethene	47.6		1.0	0.40
108-88-3	Toluene	49.1		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	45.7		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	54.8		2.0	0.65
79-01-6	Trichloroethene	46.9		1.0	0.30
75-69-4	Trichlorofluoromethane	43.7		2.0	0.57
108-05-4	Vinyl acetate	114		3.0	0.94
75-01-4	Vinyl chloride	40.0		2.0	0.51
1330-20-7	Xylenes, Total	102		1.0	0.33
78-93-3	2-Butanone (MEK)	231		15	6.0
107-02-8	Acrolein	534		20	4.9
107-13-1	Acrylonitrile	557		20	4.5
106-93-4	1,2-Dibromoethane	52.4		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	48.4		1.0	0.58
107-05-1	Allyl chloride	46.7		2.0	0.17
97-63-2	Ethyl methacrylate	52.9		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	54.3		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6789.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 03-Aug-2023 17:14:30 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcsd m
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 18:00:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.815	-0.004	98	1952624	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	89	487761	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	97	779763	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	511823	50.0	49.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	651423	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2098661	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	774322	50.0	51.3	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	316307	50.0	33.8	
10 Chloromethane	50	1.715	1.715	0.000	99	559760	50.0	37.7	
11 Vinyl chloride	62	1.805	1.801	0.004	98	477698	50.0	40.0	
13 Bromomethane	94	2.067	2.068	-0.001	92	269511	50.0	34.5	
14 Chloroethane	64	2.150	2.150	0.000	99	311245	50.0	40.4	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	813184	50.0	44.9	
16 Trichlorofluoromethane	101	2.341	2.341	0.000	98	571505	50.0	43.7	
18 Ethyl ether	59	2.544	2.547	-0.003	97	430418	50.0	52.6	
20 Acrolein	56	2.649	2.649	0.000	99	733450	493.8	534.0	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.723	2.724	-0.001	95	226780	50.0	41.9	
22 1,1-Dichloroethene	96	2.723	2.724	-0.001	94	331212	50.0	44.0	
23 Acetone	43	2.746	2.746	0.000	99	735767	200.0	218.6	
25 Iodomethane	142	2.840	2.840	0.000	99	444558	50.0	42.2	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1174760	50.0	39.4	
28 Methyl acetate	43	2.963	2.967	-0.004	99	906488	100.0	113.5	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	871727	50.0	46.7	
30 Methylene Chloride	84	3.072	3.072	0.000	98	493906	50.0	48.4	
31 2-Methyl-2-propanol	59	3.121	3.125	-0.004	96	478423	500.0	546.8	
32 Acrylonitrile	53	3.230	3.230	0.000	99	2183657	500.0	557.0	
33 Methyl tert-butyl ether	73	3.252	3.256	-0.004	98	1331070	50.0	53.7	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	410382	50.0	45.7	
35 Hexane	57	3.451	3.455	-0.004	97	551811	50.0	43.5	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2442522	100.0	114.2	
39 1,1-Dichloroethane	63	3.571	3.575	-0.004	96	925215	50.0	49.2	
43 2-Butanone (MEK)	43	3.949	3.953	-0.004	99	1134368	200.0	231.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	483451	50.0	48.9	
46 2,2-Dichloropropane	77	3.979	3.983	-0.004	91	679546	50.0	51.1	
48 sec-Butyl Alcohol	45	4.062	4.066	-0.004	100	1098722	1200.0	1237.7	
50 Chlorobromomethane	128	4.144	4.148	-0.004	91	215126	50.0	51.7	
51 Tetrahydrofuran	42	4.155	4.156	-0.001	92	370310	100.0	115.7	
52 Chloroform	83	4.204	4.204	0.000	95	844834	50.0	50.6	
53 1,1,1-Trichloroethane	97	4.339	4.343	-0.004	97	634233	50.0	48.5	
54 Cyclohexane	56	4.399	4.399	0.000	96	766988	50.0	47.1	
55 1,1-Dichloropropene	75	4.452	4.455	-0.003	97	640373	50.0	48.5	
56 Carbon tetrachloride	117	4.455	4.459	-0.004	96	538486	50.0	48.2	
57 Isobutyl alcohol	41	4.474	4.474	0.000	93	496620	1250.0	1321.5	
58 Benzene	78	4.602	4.602	0.000	98	1930355	50.0	49.4	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	716185	50.0	53.5	
63 n-Heptane	43	4.789	4.789	0.000	97	594921	50.0	51.1	
65 Trichloroethene	95	5.085	5.085	0.000	95	441469	50.0	46.9	
66 2-Pentanone	43	5.190	5.190	0.000	98	1395414	160.0	177.4	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	596672	50.0	50.8	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	95	564163	50.0	51.8	
70 1,4-Dioxane	88	5.336	5.336	0.000	96	124030	1000.0	914.5	
71 Dibromomethane	93	5.355	5.359	-0.004	90	300660	50.0	51.3	
72 Dichlorobromomethane	83	5.482	5.483	-0.001	98	680634	50.0	53.1	
74 2-Chloroethyl vinyl ether	63	5.685	5.685	0.000	91	349309	50.0	53.6	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	853562	50.0	53.2	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	98	2402718	200.0	218.3	
77 Toluene	91	6.112	6.112	0.000	97	1988171	50.0	49.1	
78 trans-1,3-Dichloropropene	75	6.288	6.289	-0.001	93	784368	50.0	54.8	
79 Ethyl methacrylate	69	6.315	6.319	-0.004	93	657309	50.0	52.9	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	92	419884	50.0	52.5	
81 Tetrachloroethene	164	6.551	6.551	0.000	92	305251	50.0	47.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	95	809063	50.0	53.2	
83 2-Hexanone	43	6.630	6.630	0.000	99	1648591	200.0	224.0	
84 Chlorodibromomethane	129	6.798	6.798	0.000	91	470514	50.0	51.9	
86 Ethylene Dibromide	107	6.911	6.915	-0.004	99	432600	50.0	52.4	
87 1-Chlorohexane	91	7.308	7.308	0.000	92	477620	40.0	38.9	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1232594	50.0	48.3	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.417	0.004	95	435040	50.0	50.5	
90 Ethylbenzene	106	7.424	7.424	0.000	99	662631	50.0	49.2	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	816344	50.0	49.9	
92 o-Xylene	106	7.900	7.900	0.000	98	815653	50.0	51.6	
93 Styrene	104	7.915	7.915	0.000	95	1393259	50.0	53.1	
94 Bromoform	173	8.095	8.095	0.000	94	300155	50.0	51.2	
95 Isopropylbenzene	105	8.241	8.242	-0.001	97	1981742	50.0	50.1	
97 Cyclohexanone	55	8.335	8.335	0.000	96	1062300	1500.0	1965.2	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	615184	50.0	53.0	
99 Bromobenzene	156	8.553	8.553	0.000	97	493332	50.0	49.8	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	75	190665	50.0	54.3	
101 1,2,3-Trichloropropane	110	8.586	8.590	-0.004	87	165947	50.0	51.6	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	548340	50.0	50.2	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	486646	50.0	49.5	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	95	1673292	50.0	50.9	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	506088	50.0	49.7	
106 tert-Butylbenzene	119	9.119	9.119	0.000	95	1360508	50.0	50.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1756151	50.0	48.4	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	388428	50.0	51.4	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	96	913026	50.0	48.7	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1710255	50.0	47.6	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	947323	50.0	47.8	
114 n-Butylbenzene	91	9.895	9.891	0.004	98	1638714	50.0	48.9	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	879709	50.0	50.0	
116 1,2-Dibromo-3-Chloropropane	157	10.697	10.697	0.000	76	86425	50.0	47.3	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	423546	50.0	48.4	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	96	181313	50.0	44.0	
120 Naphthalene	128	11.788	11.788	0.000	98	988134	50.0	40.8	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	247192	50.0	40.0	
S 143 1,3-Dichloropropene, Total	1				0		100.0	108.0	
S 142 Trihalomethanes, Total	1				0		200.0	206.8	
S 141 Xylenes, Total	106				0		100.0	101.5	
S 140 1,2-Dichloroethene, Total	1				0		100.0	94.6	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 23:28:07

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6789.D

Injection Date: 03-Aug-2023 17:14:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

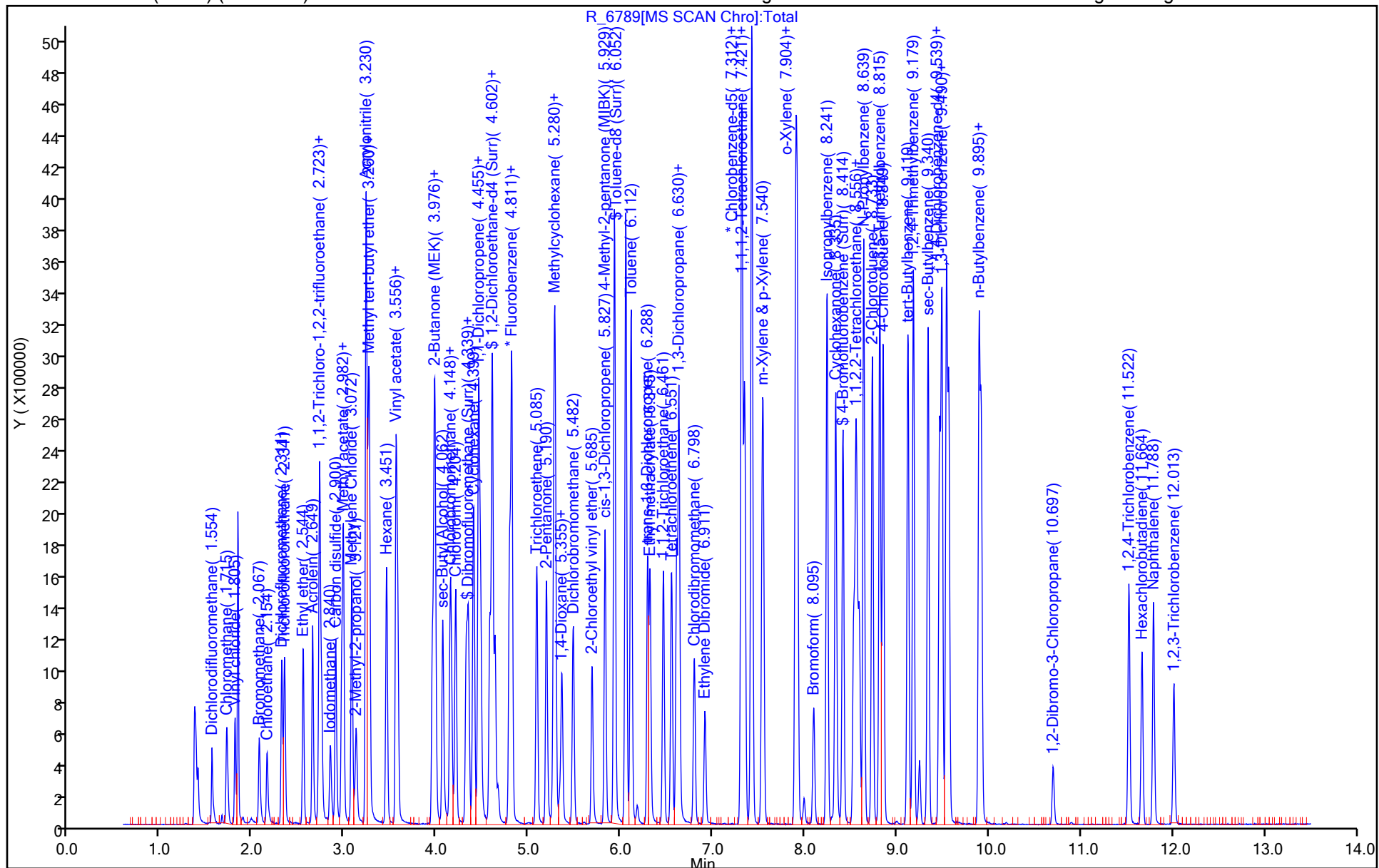
ALS Bottle#: 1

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/7/2023 6:03

PM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6789.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Aug-2023 17:14:30 ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd m
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 18:00:45

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.9	99.77
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.22
\$ 6 Toluene-d8 (Surr)	50.0	50.0	99.91
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.3	102.57

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-621775/7
 Matrix: Water Lab File ID: R_6790.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 17:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	33.1		3.0	1.2
75-05-8	Acetonitrile	380		30	9.6
126-98-7	Methacrylonitrile	359		15	5.3
80-62-6	Methyl methacrylate	50.0		4.0	1.1
107-12-0	Propionitrile	288		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	108		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6790.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 03-Aug-2023 17:35:30 ALS Bottle#: 2 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcsd s
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:35 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: rittisilpp

Date: 07-Aug-2023 13:47:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.815	-0.004	98	1949251	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	479291	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	718096	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	514483	50.0	50.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	650616	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2062297	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	752019	50.0	54.1	
17 Ethanol	45	2.457	2.457	0.000	100	240607	1500.0	2573.1	
24 Isopropyl alcohol	45	2.836	2.832	0.004	98	169635	250.0	340.1	
27 Acetonitrile	41	2.945	2.945	0.000	100	441654	250.0	380.5	
38 Isopropyl ether	87	3.578	3.574	0.004	96	182594	25.0	26.8	
40 2-Chloro-1,3-butadiene	53	3.623	3.627	-0.004	93	423743	25.0	33.1	
41 Tert-butyl ethyl ether	59	3.829	3.833	-0.004	97	734653	25.0	31.1	
44 Ethyl acetate	43	3.968	3.968	0.000	99	564036	50.0	76.3	
47 Propionitrile	54	3.998	3.998	0.000	99	401516	250.0	287.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	96	1977077	250.0	358.8	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	96	627573	25.0	29.1	
64 n-Butanol	56	4.965	4.969	-0.004	95	155869	625.0	616.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	119301	50.0	50.0	
73 2-Nitropropane	41	5.644	5.647	-0.003	98	155146	50.0	73.1	
96 cis-1,4-Dichloro-2-butene	53	8.294	8.298	-0.004	0	179974	50.0	62.2	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	868169	25.0	26.3	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	256012	25.0	22.0	
129 Ethyl acrylate	55		0.000				ND	ND	
127 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6790.D

Injection Date: 03-Aug-2023 17:35:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: LCSD

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

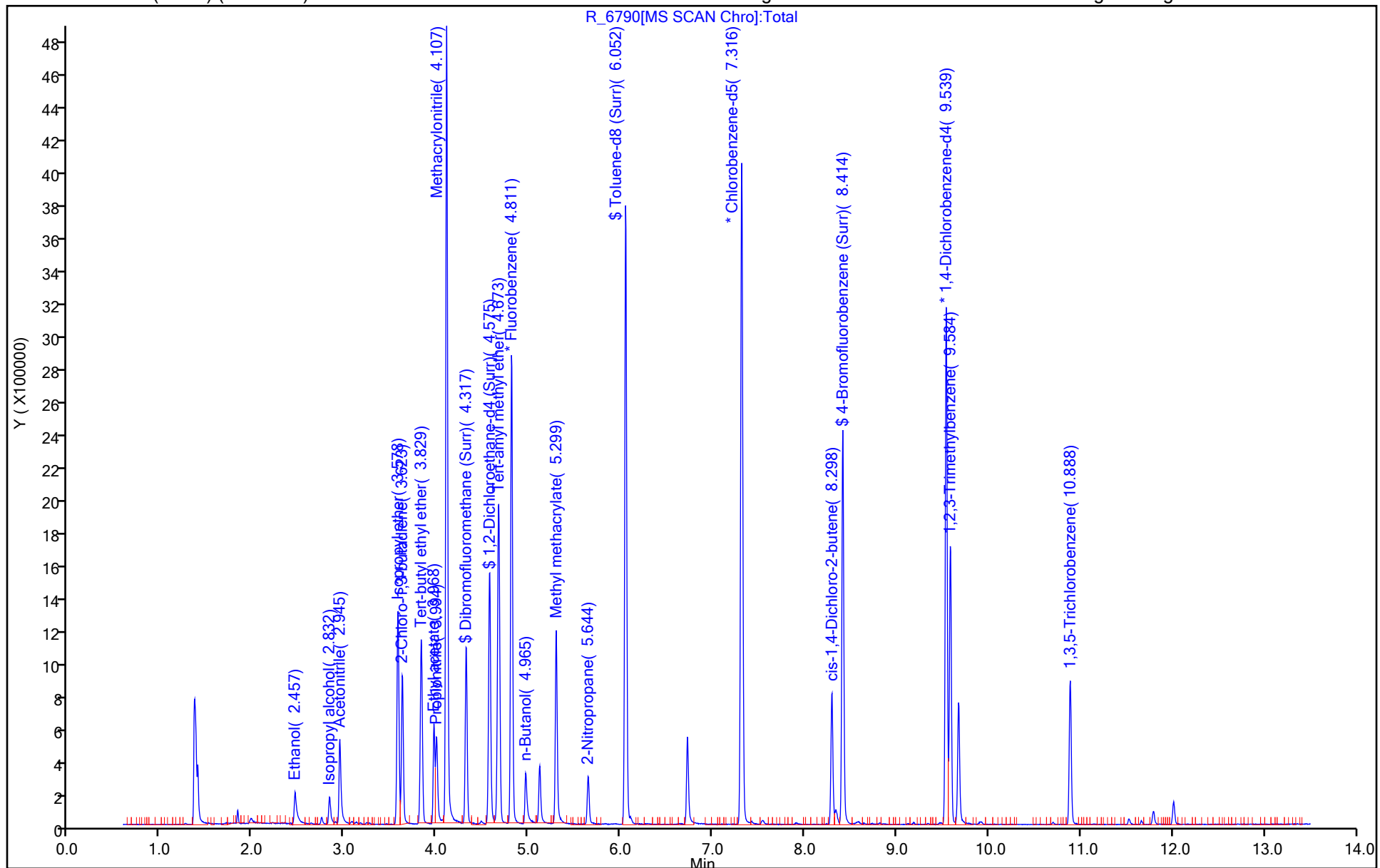
ALS Bottle#: 2

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6790.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Aug-2023 17:35:30 ALS Bottle#: 2 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd s
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 23:28:35 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1662

First Level Reviewer: rittisilpp

Date: 07-Aug-2023 13:47:44

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.2	100.46
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.28
\$ 6 Toluene-d8 (Surr)	50.0	50.0	99.91
\$ 7 4-Bromofluorobenzene (Surr)	50.0	54.1	108.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-3-20230722 MS</u>	Lab Sample ID: <u>280-179475-13 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6812.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 01:26</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	52.2		1.0	0.58
71-55-6	1,1,1-Trichloroethane	54.6		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	52.7		1.0	0.21
79-00-5	1,1,2-Trichloroethane	51.7		1.0	0.27
75-34-3	1,1-Dichloroethane	52.3		1.0	0.22
75-35-4	1,1-Dichloroethene	52.9		1.0	0.23
563-58-6	1,1-Dichloropropene	54.8		1.0	0.42
96-18-4	1,2,3-Trichloropropane	50.8		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	47.6		5.0	1.8
95-50-1	1,2-Dichlorobenzene	50.5		1.0	0.37
107-06-2	1,2-Dichloroethane	53.5		1.0	0.54
78-87-5	1,2-Dichloropropane	52.6		1.0	0.52
541-73-1	1,3-Dichlorobenzene	49.9		1.0	0.33
142-28-9	1,3-Dichloropropane	53.7		1.0	0.38
106-46-7	1,4-Dichlorobenzene	48.8		1.0	0.39
594-20-7	2,2-Dichloropropane	51.6		1.0	0.38
591-78-6	2-Hexanone	209		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	204		5.0	0.98
67-64-1	Acetone	196		15	6.6
71-43-2	Benzene	51.6		1.0	0.31
75-25-2	Bromoform	50.7		2.0	1.2
74-83-9	Bromomethane	37.7		5.0	2.4
75-15-0	Carbon disulfide	50.6		2.0	0.63
56-23-5	Carbon tetrachloride	55.3		1.0	0.57
108-90-7	Chlorobenzene	50.0		1.0	0.42
74-97-5	Chlorobromomethane	52.7		1.0	0.40
124-48-1	Chlorodibromomethane	51.8		2.0	0.62
75-00-3	Chloroethane	41.9		4.0	1.4
67-66-3	Chloroform	52.1		1.0	0.36
74-87-3	Chloromethane	39.3		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	51.1		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	52.4		2.0	0.63
74-95-3	Dibromomethane	50.9		1.0	0.34
75-27-4	Dichlorobromomethane	53.8		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Client Sample ID: PA-3-20230722 MS Lab Sample ID: 280-179475-13 MS

Matrix: Water Lab File ID: R_6812.D

Analysis Method: 8260D Date Collected: 07/22/2023 12:15

Sample wt/vol: 5(mL) Date Analyzed: 08/04/2023 01:26

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 621775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	35.5		3.0	0.96
100-41-4	Ethylbenzene	51.6		1.0	0.30
74-88-4	Iodomethane	50.0		5.0	2.6
78-83-1	Isobutyl alcohol	1280		110	37
75-09-2	Methylene Chloride	49.3		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	51.9		2.0	0.36
95-47-6	o-Xylene	53.6		1.0	0.33
100-42-5	Styrene	54.5		1.0	0.36
127-18-4	Tetrachloroethene	52.0		1.0	0.40
108-88-3	Toluene	50.3		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	50.7		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	53.9		2.0	0.65
79-01-6	Trichloroethene	51.4		1.0	0.30
75-69-4	Trichlorofluoromethane	46.0		2.0	0.57
108-05-4	Vinyl acetate	113		3.0	0.94
75-01-4	Vinyl chloride	42.4		2.0	0.51
1330-20-7	Xylenes, Total	106		1.0	0.33
78-93-3	2-Butanone (MEK)	220		15	6.0
107-02-8	Acrolein	480		20	4.9
107-13-1	Acrylonitrile	540		20	4.5
106-93-4	1,2-Dibromoethane	52.2		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	48.1		1.0	0.58
107-05-1	Allyl chloride	51.1		2.0	0.17
97-63-2	Ethyl methacrylate	50.8		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	52.8		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	99		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6812.D
 Lims ID: 280-179475-B-13 MS
 Client ID: PA-3-20230722
 Sample Type: MS
 Inject. Date: 04-Aug-2023 01:26:30 ALS Bottle#: 24 Worklist Smp#: 31
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-B-13 MS
 Misc. Info.: 280-0124173-031
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 10:59:07 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1676

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.815	-0.003	98	1974791	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	89	487851	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	97	774021	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	91	518236	50.0	49.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	654240	50.0	52.7	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2088117	50.0	49.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	770958	50.0	51.4	
\$ 8 BFB	95	8.414	8.414	0.000	83	770958		NR	
9 Dichlorodifluoromethane	85	1.550	1.554	-0.004	99	335462	50.0	35.5	
10 Chloromethane	50	1.712	1.715	-0.003	99	590343	50.0	39.3	
11 Vinyl chloride	62	1.801	1.801	0.000	98	512173	50.0	42.4	
13 Bromomethane	94	2.068	2.068	0.000	91	298075	50.0	37.7	
12 Ethylene oxide	43	2.098	2.075	0.023	40	2569		6.34	
14 Chloroethane	64	2.154	2.150	0.004	99	326003	50.0	41.9	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	845901	50.0	46.2	
16 Trichlorofluoromethane	101	2.341	2.341	0.000	98	608349	50.0	46.0	
17 Ethanol	45		2.457					ND	
18 Ethyl ether	59	2.544	2.547	-0.003	96	437644	50.0	52.8	
19 Propene oxide	58	2.652	2.630	0.022	20	1329		0.8860	
20 Acrolein	56	2.649	2.649	0.000	99	666113	493.8	479.5	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.724	2.724	0.000	95	295512	50.0	54.0	
22 1,1-Dichloroethene	96	2.724	2.724	0.000	93	403384	50.0	52.9	
23 Acetone	43	2.746	2.746	0.000	99	670512	200.0	195.9	
24 Isopropyl alcohol	45	2.836	2.832	0.004	30	39550		78.3	
25 Iodomethane	142	2.840	2.840	0.000	99	532342	50.0	50.0	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1525458	50.0	50.6	
27 Acetonitrile	41		2.945					ND	
28 Methyl acetate	43	2.964	2.967	-0.003	99	831872	100.0	103.0	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	91	964299	50.0	51.1	
30 Methylene Chloride	84	3.076	3.072	0.004	99	508682	50.0	49.3	
31 2-Methyl-2-propanol	59	3.121	3.125	-0.004	96	455225	500.0	514.5	
32 Acrylonitrile	53	3.230	3.230	0.000	98	2140359	500.0	539.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	3.252	3.256	-0.004	98	1343316	50.0	53.6	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	460306	50.0	50.7	
35 Hexane	57	3.451	3.455	-0.004	97	691200	50.0	54.5	
36 Chlorotrifluoroethene	116		3.531					ND	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2450969	100.0	113.3	
38 Isopropyl ether	87		3.574					ND	
39 1,1-Dichloroethane	63	3.571	3.575	-0.004	96	995125	50.0	52.3	
40 2-Chloro-1,3-butadiene	53		3.627					ND	
41 Tert-butyl ethyl ether	59		3.833					ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		3.951					ND	
43 2-Butanone (MEK)	43	3.949	3.953	-0.004	99	1090600	200.0	219.9	
44 Ethyl acetate	43		3.968					ND	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	511501	50.0	51.1	
46 2,2-Dichloropropane	77	3.979	3.983	-0.004	91	693430	50.0	51.6	
47 Propionitrile	54	3.949	3.998	-0.049	33	1605		1.13	
48 sec-Butyl Alcohol	45	4.062	4.066	-0.004	100	1057150	1200.0	1178.1	
49 Methacrylonitrile	41		4.107					ND	
50 Chlorobromomethane	128	4.141	4.148	-0.007	92	221736	50.0	52.7	
51 Tetrahydrofuran	42	4.156	4.156	0.000	92	366625	100.0	113.3	
52 Chloroform	83	4.204	4.204	0.000	95	879838	50.0	52.1	
53 1,1,1-Trichloroethane	97	4.343	4.343	0.000	97	722179	50.0	54.6	
54 Cyclohexane	56	4.399	4.399	0.000	96	942954	50.0	57.2	
55 1,1-Dichloropropene	75	4.452	4.455	-0.003	97	731381	50.0	54.8	
56 Carbon tetrachloride	117	4.456	4.459	-0.003	96	625260	50.0	55.3	
57 Isobutyl alcohol	41	4.474	4.474	0.000	92	485671	1250.0	1278.2	
58 Benzene	78	4.602	4.602	0.000	98	2039379	50.0	51.6	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	724528	50.0	53.5	
61 Tert-amyl methyl ether	73		4.673					ND	
60 1,2-Dichloro-1,1,2-trifluoroethane	117		4.678					ND	
62 1,1,1-Trifluoro-2,2-dichloroethane	83		4.706					ND	
63 n-Heptane	43	4.785	4.789	-0.004	98	619917	50.0	52.7	
64 n-Butanol	56		4.969					ND	
65 Trichloroethene	95	5.085	5.085	0.000	96	483859	50.0	51.4	
66 2-Pentanone	43	5.190	5.190	0.000	98	1320651	160.0	166.1	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	676733	50.0	57.0	
68 1,2-Dichloropropane	63	5.284	5.288	-0.004	95	579702	50.0	52.6	
69 Methyl methacrylate	100		5.299					ND	
70 1,4-Dioxane	88	5.333	5.336	-0.003	99	118821	1000.0	866.9	
71 Dibromomethane	93	5.355	5.359	-0.004	91	301483	50.0	50.9	
72 Dichlorobromomethane	83	5.483	5.483	0.000	98	696819	50.0	53.8	
73 2-Nitropropane	41	5.715	5.647	0.068	21	1024		0.4763	
74 2-Chloroethyl vinyl ether	63		5.685				ND	ND	
75 cis-1,3-Dichloropropene	75	5.828	5.827	0.001	93	840327	50.0	52.4	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2269576	200.0	204.0	
77 Toluene	91	6.112	6.112	0.000	97	2056880	50.0	50.3	
78 trans-1,3-Dichloropropene	75	6.289	6.289	0.000	93	779740	50.0	53.9	
79 Ethyl methacrylate	69	6.315	6.319	-0.004	94	630101	50.0	50.8	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	93	418625	50.0	51.7	
81 Tetrachloroethene	164	6.551	6.551	0.000	93	333457	50.0	52.0	
82 1,3-Dichloropropane	76	6.603	6.607	-0.004	96	817395	50.0	53.7	
83 2-Hexanone	43	6.630	6.630	0.000	99	1539245	200.0	209.2	
84 Chlorodibromomethane	129	6.798	6.798	0.000	90	469385	50.0	51.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Tetrahydrothiophene	60		6.847					ND	
86 Ethylene Dibromide	107	6.911	6.915	-0.004	98	431154	50.0	52.2	
87 1-Chlorohexane	91	7.308	7.308	0.000	93	511276	40.0	41.7	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1276777	50.0	50.0	
89 1,1,1,2-Tetrachloroethane	131	7.417	7.417	0.000	95	449833	50.0	52.2	
90 Ethylbenzene	106	7.424	7.424	0.000	99	695908	50.0	51.6	
91 m-Xylene & p-Xylene	106	7.541	7.544	-0.003	0	848135	50.0	51.9	
92 o-Xylene	106	7.897	7.900	-0.003	98	847682	50.0	53.6	
93 Styrene	104	7.916	7.915	0.001	94	1429694	50.0	54.5	
94 Bromoform	173	8.095	8.095	0.000	93	297270	50.0	50.7	
95 Isopropylbenzene	105	8.238	8.242	-0.004	97	2110658	50.0	53.7	
96 cis-1,4-Dichloro-2-butene	53	8.294	8.298	-0.004	0	8265		3.68	
97 Cyclohexanone	55	8.335	8.335	0.000	97	593354	1500.0	1102.6	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	93	607996	50.0	52.7	
99 Bromobenzene	156	8.553	8.553	0.000	97	507983	50.0	51.7	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	73	184046	50.0	52.8	
101 1,2,3-Trichloropropane	110	8.594	8.590	0.004	86	162004	50.0	50.8	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	573921	50.0	52.9	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	495229	50.0	50.8	
104 1,3,5-Trimethylbenzene	105	8.811	8.815	-0.004	95	1752543	50.0	53.7	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	519969	50.0	51.4	
106 tert-Butylbenzene	119	9.119	9.119	0.000	94	1445726	50.0	54.3	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1822452	50.0	50.6	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	401955	50.0	53.6	
109 Pentachloroethane	167		9.392					ND	
110 1,3-Dichlorobenzene	146	9.460	9.464	-0.004	97	928930	50.0	49.9	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1770360	50.0	49.6	
112 1,4-Dichlorobenzene	146	9.561	9.565	-0.004	92	959313	50.0	48.8	
113 1,2,3-Trimethylbenzene	105		9.584					ND	7
114 n-Butylbenzene	91	9.891	9.891	0.000	98	1677430	50.0	50.5	
115 1,2-Dichlorobenzene	146	9.914	9.917	-0.003	95	881876	50.0	50.5	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.697	0.004	76	86329	50.0	47.6	
117 1,3,5-Trichlorobenzene	180		10.888					ND	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	94	417920	50.0	48.1	
119 Hexachlorobutadiene	225	11.660	11.664	-0.004	96	183438	50.0	44.8	
120 Naphthalene	128	11.788	11.788	0.000	98	1039497	50.0	43.3	
121 1,2,3-Trichlorobenzene	180	12.009	12.013	-0.004	94	277248	50.0	44.9	
134 2-Methylhexane	1		0.000					ND	
137 Dimethyl disulfide	1		0.000					ND	
127 t-Amyl alcohol	1		0.000					ND	
126 cis-1,4-Dichloro-2-butene TIC	1		0.000					ND	
129 Ethyl acrylate	55		0.000					ND	
131 Pentachloroethane TIC	1		0.000					ND	
130 2,2,3-Trimethylbutane	1		0.000					ND	
132 2,4-Dimethylpentane	1		0.000					ND	
124 n-Nonyl Aldehyde	1		0.000					ND	
125 Ethylene oxide TIC	1		0.000					ND	
133 3,3-Dimethylpentane	1		0.000					ND	
123 3-Ethylpentane	1		0.000					ND	
135 2,3-Dimethylpentane	1		0.000					ND	
128 3-Methylhexane	1		0.000					ND	
136 2,2-Dimethylpentane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
138 Propene oxide TIC	58	5.333	5.334	-0.001	80	94334			NR
S 144 TAH	1				0				0
S 143 1,3-Dichloropropene, Total	1				0		100.0	106.2	
S 142 Trihalomethanes, Total	1				0		200.0	208.3	
S 141 Xylenes, Total	106				0		100.0	105.5	
S 140 1,2-Dichloroethene, Total	1				0		100.0	101.8	
S 139 Total BTEX	1				0			258.9	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6812.D

Injection Date: 04-Aug-2023 01:26:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-B-13 MS

Worklist Smp#: 31

Client ID: PA-3-20230722

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

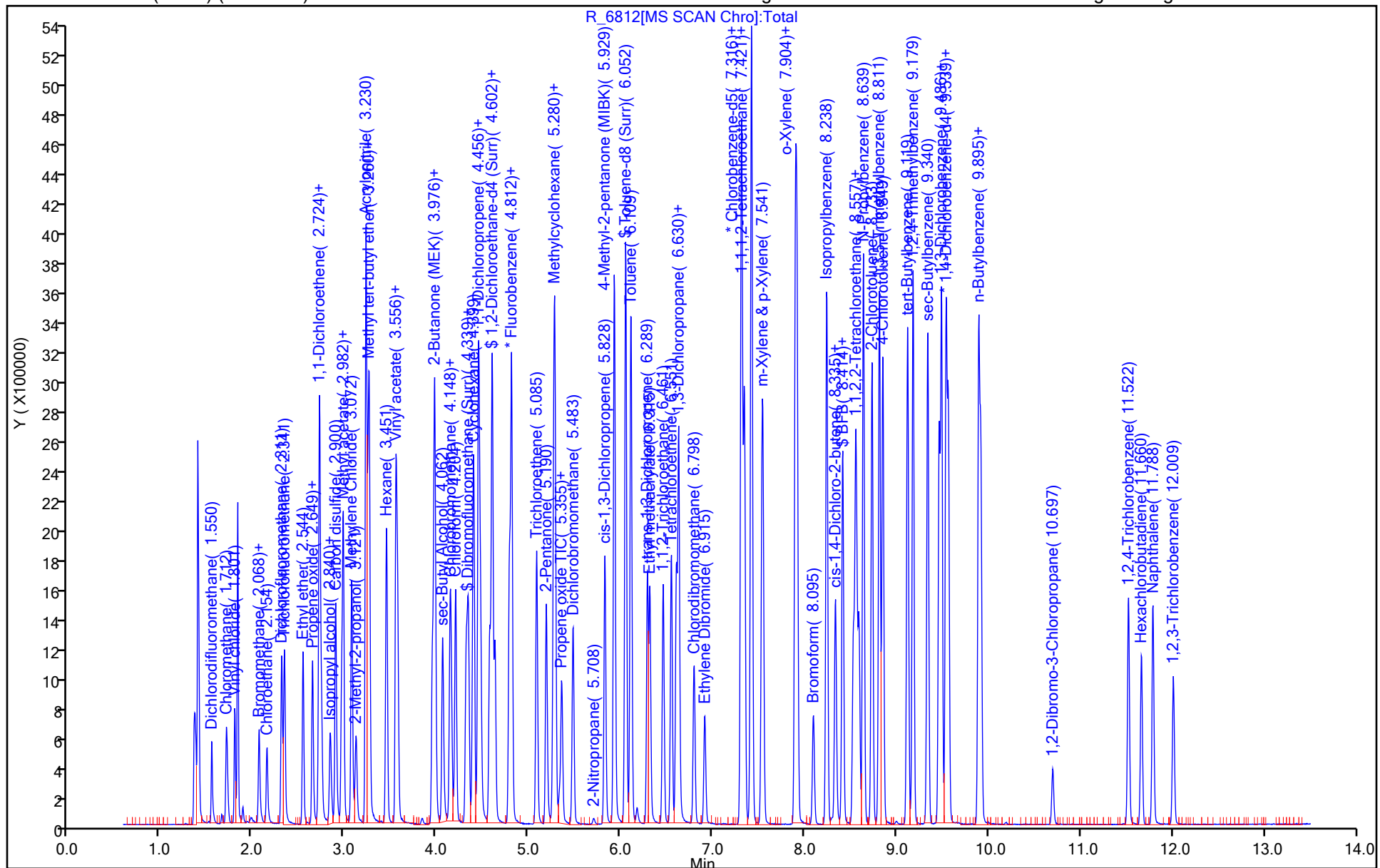
ALS Bottle#: 24

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6812.D
Lims ID: 280-179475-B-13 MS
Client ID: PA-3-20230722
Sample Type: MS
Inject. Date: 04-Aug-2023 01:26:30 ALS Bottle#: 24 Worklist Smp#: 31
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179475-B-13 MS
Misc. Info.: 280-0124173-031
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 10:59:07 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1676

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.9	99.88
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.49
\$ 6 Toluene-d8 (Surr)	50.0	49.7	99.39
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.4	102.88

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-3-20230722 MSD</u>	Lab Sample ID: <u>280-179475-13 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6813.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 01:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	52.8		1.0	0.58
71-55-6	1,1,1-Trichloroethane	54.3		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	53.3		1.0	0.21
79-00-5	1,1,2-Trichloroethane	53.0		1.0	0.27
75-34-3	1,1-Dichloroethane	53.0		1.0	0.22
75-35-4	1,1-Dichloroethene	53.1		1.0	0.23
563-58-6	1,1-Dichloropropene	55.3		1.0	0.42
96-18-4	1,2,3-Trichloropropane	50.6		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	49.4		5.0	1.8
95-50-1	1,2-Dichlorobenzene	51.7		1.0	0.37
107-06-2	1,2-Dichloroethane	54.7		1.0	0.54
78-87-5	1,2-Dichloropropane	53.8		1.0	0.52
541-73-1	1,3-Dichlorobenzene	50.7		1.0	0.33
142-28-9	1,3-Dichloropropane	54.8		1.0	0.38
106-46-7	1,4-Dichlorobenzene	49.3		1.0	0.39
594-20-7	2,2-Dichloropropane	51.0		1.0	0.38
591-78-6	2-Hexanone	213		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	208		5.0	0.98
67-64-1	Acetone	197		15	6.6
71-43-2	Benzene	51.8		1.0	0.31
75-25-2	Bromoform	52.2		2.0	1.2
74-83-9	Bromomethane	36.2		5.0	2.4
75-15-0	Carbon disulfide	50.7		2.0	0.63
56-23-5	Carbon tetrachloride	55.5		1.0	0.57
108-90-7	Chlorobenzene	51.0		1.0	0.42
74-97-5	Chlorobromomethane	53.3		1.0	0.40
124-48-1	Chlorodibromomethane	52.5		2.0	0.62
75-00-3	Chloroethane	37.6		4.0	1.4
67-66-3	Chloroform	53.0		1.0	0.36
74-87-3	Chloromethane	35.5		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	50.9		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	54.0		2.0	0.63
74-95-3	Dibromomethane	52.2		1.0	0.34
75-27-4	Dichlorobromomethane	54.1		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179475-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-3-20230722 MSD</u>	Lab Sample ID: <u>280-179475-13 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6813.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 12:15</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/04/2023 01:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	31.6		3.0	0.96
100-41-4	Ethylbenzene	52.8		1.0	0.30
74-88-4	Iodomethane	49.1		5.0	2.6
78-83-1	Isobutyl alcohol	1270		110	37
75-09-2	Methylene Chloride	49.4		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	52.4		2.0	0.36
95-47-6	o-Xylene	55.0		1.0	0.33
100-42-5	Styrene	55.5		1.0	0.36
127-18-4	Tetrachloroethene	51.6		1.0	0.40
108-88-3	Toluene	51.0		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	50.4		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	54.3		2.0	0.65
79-01-6	Trichloroethene	52.6		1.0	0.30
75-69-4	Trichlorofluoromethane	41.8		2.0	0.57
108-05-4	Vinyl acetate	115		3.0	0.94
75-01-4	Vinyl chloride	38.6		2.0	0.51
1330-20-7	Xylenes, Total	107		1.0	0.33
78-93-3	2-Butanone (MEK)	221		15	6.0
107-02-8	Acrolein	484		20	4.9
107-13-1	Acrylonitrile	551		20	4.5
106-93-4	1,2-Dibromoethane	54.2		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	49.4		1.0	0.58
107-05-1	Allyl chloride	51.9		2.0	0.17
97-63-2	Ethyl methacrylate	52.8		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	52.1		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6813.D
 Lims ID: 280-179475-A-13 MSD
 Client ID: PA-3-20230722
 Sample Type: MSD
 Inject. Date: 04-Aug-2023 01:47:30 ALS Bottle#: 25 Worklist Smp#: 32
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-A-13 MSD
 Misc. Info.: 280-0124173-032
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 10:59:07 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1676

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.815	-0.004	98	1987353	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	91	488126	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.538	9.539	-0.001	97	782396	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	526822	50.0	50.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	665062	50.0	53.3	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2114379	50.0	50.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	770434	50.0	50.9	
\$ 8 BFB	95	8.414	8.414	0.000	83	770434		NR	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	300419	50.0	31.6	
10 Chloromethane	50	1.715	1.715	0.000	99	537447	50.0	35.5	
11 Vinyl chloride	62	1.805	1.801	0.004	98	469092	50.0	38.6	
13 Bromomethane	94	2.067	2.068	-0.001	92	287380	50.0	36.2	
12 Ethylene oxide	43	2.124	2.075	0.049	88	1731		4.24	
14 Chloroethane	64	2.154	2.150	0.004	99	294825	50.0	37.6	
15 Dichlorofluoromethane	67	2.315	2.311	0.004	97	776927	50.0	42.1	
16 Trichlorofluoromethane	101	2.345	2.341	0.004	99	556867	50.0	41.8	
17 Ethanol	45		2.457					ND	
18 Ethyl ether	59	2.547	2.547	0.000	96	444458	50.0	53.3	
19 Propene oxide	58		2.630					ND	7
20 Acrolein	56	2.648	2.649	-0.001	99	676059	493.8	483.6	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.727	2.724	0.003	97	300236	50.0	54.5	
22 1,1-Dichloroethene	96	2.727	2.724	0.003	94	406886	50.0	53.1	
23 Acetone	43	2.746	2.746	0.000	99	679371	200.0	197.3	
24 Isopropyl alcohol	45	2.843	2.832	0.011	25	9609		18.9	
25 Iodomethane	142	2.843	2.840	0.003	99	526093	50.0	49.1	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1539989	50.0	50.7	
27 Acetonitrile	41		2.945					ND	
28 Methyl acetate	43	2.963	2.967	-0.004	99	846488	100.0	104.1	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	986015	50.0	51.9	
30 Methylene Chloride	84	3.076	3.072	0.004	99	512408	50.0	49.4	
31 2-Methyl-2-propanol	59	3.121	3.125	-0.004	96	468075	500.0	525.7	
32 Acrylonitrile	53	3.230	3.230	0.000	99	2197081	500.0	550.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	1382681	50.0	54.8	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	460744	50.0	50.4	
35 Hexane	57	3.454	3.455	-0.001	97	706898	50.0	55.7	
36 Chlorotrifluoroethene	116		3.531					ND	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2495006	100.0	114.6	
38 Isopropyl ether	87	3.563	3.574	-0.011	31	10280		1.48	
39 1,1-Dichloroethane	63	3.574	3.575	-0.001	96	1015042	50.0	53.0	
40 2-Chloro-1,3-butadiene	53		3.627					ND	
41 Tert-butyl ethyl ether	59		3.833					ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		3.951					ND	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1103075	200.0	221.0	
44 Ethyl acetate	43		3.968					ND	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	512635	50.0	50.9	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	93	689423	50.0	51.0	
47 Propionitrile	54	3.953	3.998	-0.045	33	2459		1.73	
48 sec-Butyl Alcohol	45	4.062	4.066	-0.004	100	1067163	1200.0	1181.7	
49 Methacrylonitrile	41		4.107					ND	
50 Chlorobromomethane	128	4.144	4.148	-0.004	90	225704	50.0	53.3	
51 Tetrahydrofuran	42	4.159	4.156	0.003	92	372783	100.0	114.4	
52 Chloroform	83	4.204	4.204	0.000	95	900423	50.0	53.0	
53 1,1,1-Trichloroethane	97	4.343	4.343	0.000	97	722931	50.0	54.3	
54 Cyclohexane	56	4.399	4.399	0.000	95	957407	50.0	57.8	
55 1,1-Dichloropropene	75	4.452	4.455	-0.003	96	743805	50.0	55.3	
56 Carbon tetrachloride	117	4.455	4.459	-0.004	96	631595	50.0	55.5	
57 Isobutyl alcohol	41	4.474	4.474	0.000	93	486500	1250.0	1272.3	
58 Benzene	78	4.602	4.602	0.000	98	2061425	50.0	51.8	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	745958	50.0	54.7	
61 Tert-amyl methyl ether	73		4.673					ND	
60 1,2-Dichloro-1,1,2-trifluoroethane	117		4.678					ND	
62 1,1,1-Trifluoro-2,2-dichloroethane	83		4.706					ND	
63 n-Heptane	43	4.789	4.789	0.000	97	640697	50.0	54.1	
64 n-Butanol	56		4.969					ND	
65 Trichloroethene	95	5.085	5.085	0.000	95	495080	50.0	52.6	
66 2-Pentanone	43	5.190	5.190	0.000	98	1348496	160.0	168.5	
67 Methylcyclohexane	55	5.273	5.273	0.000	94	695839	50.0	58.2	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	96	596312	50.0	53.8	
69 Methyl methacrylate	100		5.299					ND	
70 1,4-Dioxane	88	5.336	5.336	0.000	99	122546	1000.0	888.1	
71 Dibromomethane	93	5.355	5.359	-0.004	89	311368	50.0	52.2	
72 Dichlorobromomethane	83	5.482	5.483	-0.001	98	706004	50.0	54.1	
73 2-Nitropropane	41		5.647					ND	
74 2-Chloroethyl vinyl ether	63		5.685				ND	ND	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	867148	50.0	54.0	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2333983	200.0	208.4	
77 Toluene	91	6.112	6.112	0.000	97	2100540	50.0	51.0	
78 trans-1,3-Dichloropropene	75	6.292	6.289	0.003	95	790926	50.0	54.3	
79 Ethyl methacrylate	69	6.315	6.319	-0.004	93	655885	50.0	52.8	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	92	431409	50.0	53.0	
81 Tetrachloroethene	164	6.551	6.551	0.000	92	331084	50.0	51.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	95	834323	50.0	54.8	
83 2-Hexanone	43	6.630	6.630	0.000	99	1568750	200.0	213.1	
84 Chlorodibromomethane	129	6.798	6.798	0.000	91	476737	50.0	52.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Tetrahydrothiophene	60		6.847					ND	
86 Ethylene Dibromide	107	6.914	6.915	-0.001	98	447337	50.0	54.2	
87 1-Chlorohexane	91	7.308	7.308	0.000	90	526070	40.0	42.9	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1302864	50.0	51.0	
89 1,1,1,2-Tetrachloroethane	131	7.417	7.417	0.000	94	455132	50.0	52.8	
90 Ethylbenzene	106	7.424	7.424	0.000	99	711801	50.0	52.8	
91 m-Xylene & p-Xylene	106	7.540	7.544	-0.004	0	856890	50.0	52.4	
92 o-Xylene	106	7.897	7.900	-0.003	98	870129	50.0	55.0	
93 Styrene	104	7.915	7.915	0.000	94	1455251	50.0	55.5	
94 Bromoform	173	8.095	8.095	0.000	93	306154	50.0	52.2	
95 Isopropylbenzene	105	8.241	8.242	-0.001	97	2150300	50.0	54.2	
96 cis-1,4-Dichloro-2-butene	53	8.294	8.298	-0.004	0	8865		3.84	
97 Cyclohexanone	55	8.335	8.335	0.000	97	600707	1500.0	1115.5	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	620894	50.0	53.3	
99 Bromobenzene	156	8.553	8.553	0.000	97	511614	50.0	51.5	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	76	183525	50.0	52.1	
101 1,2,3-Trichloropropane	110	8.590	8.590	0.000	86	163120	50.0	50.6	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	578634	50.0	52.8	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	511068	50.0	51.8	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	94	1802076	50.0	54.6	
105 4-Chlorotoluene	126	8.852	8.849	0.003	99	538088	50.0	52.6	
106 tert-Butylbenzene	119	9.119	9.119	0.000	95	1477557	50.0	54.9	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1869026	50.0	51.4	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	420880	50.0	55.5	
109 Pentachloroethane	167		9.392					ND	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	97	953234	50.0	50.7	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1823978	50.0	50.6	
112 1,4-Dichlorobenzene	146	9.561	9.565	-0.004	92	979739	50.0	49.3	
113 1,2,3-Trimethylbenzene	105		9.584					ND	7
114 n-Butylbenzene	91	9.891	9.891	0.000	99	1724023	50.0	51.3	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	913576	50.0	51.7	
116 1,2-Dibromo-3-Chloropropane	157	10.697	10.697	0.000	78	90623	50.0	49.4	
117 1,3,5-Trichlorobenzene	180		10.888					ND	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	433484	50.0	49.4	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	96	198959	50.0	48.1	
120 Naphthalene	128	11.788	11.788	0.000	98	1062367	50.0	43.7	
121 1,2,3-Trichlorobenzene	180	12.009	12.013	-0.004	94	283224	50.0	45.4	
134 2-Methylhexane	1		0.000					ND	
137 Dimethyl disulfide	1		0.000					ND	
127 t-Amyl alcohol	1		0.000					ND	
126 cis-1,4-Dichloro-2-butene TIC	1		0.000					ND	
129 Ethyl acrylate	55		0.000					ND	
131 Pentachloroethane TIC	1		0.000					ND	
130 2,2,3-Trimethylbutane	1		0.000					ND	
132 2,4-Dimethylpentane	1		0.000					ND	
124 n-Nonyl Aldehyde	1		0.000					ND	
125 Ethylene oxide TIC	1		0.000					ND	
133 3,3-Dimethylpentane	1		0.000					ND	
123 3-Ethylpentane	1		0.000					ND	
135 2,3-Dimethylpentane	1		0.000					ND	
128 3-Methylhexane	1		0.000					ND	
136 2,2-Dimethylpentane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
138 Propene oxide TIC	58	5.336	5.334	0.002	80	89034		NR	
S 144 TAH	1				0			0	
S 143 1,3-Dichloropropene, Total	1				0		100.0	108.3	
S 142 Trihalomethanes, Total	1				0		200.0	211.9	
S 141 Xylenes, Total	106				0		100.0	107.4	
S 140 1,2-Dichloroethene, Total	1				0		100.0	101.4	
S 139 Total BTEX	1				0			262.9	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6813.D

Injection Date: 04-Aug-2023 01:47:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179475-A-13 MSD

Worklist Smp#: 32

Client ID: PA-3-20230722

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

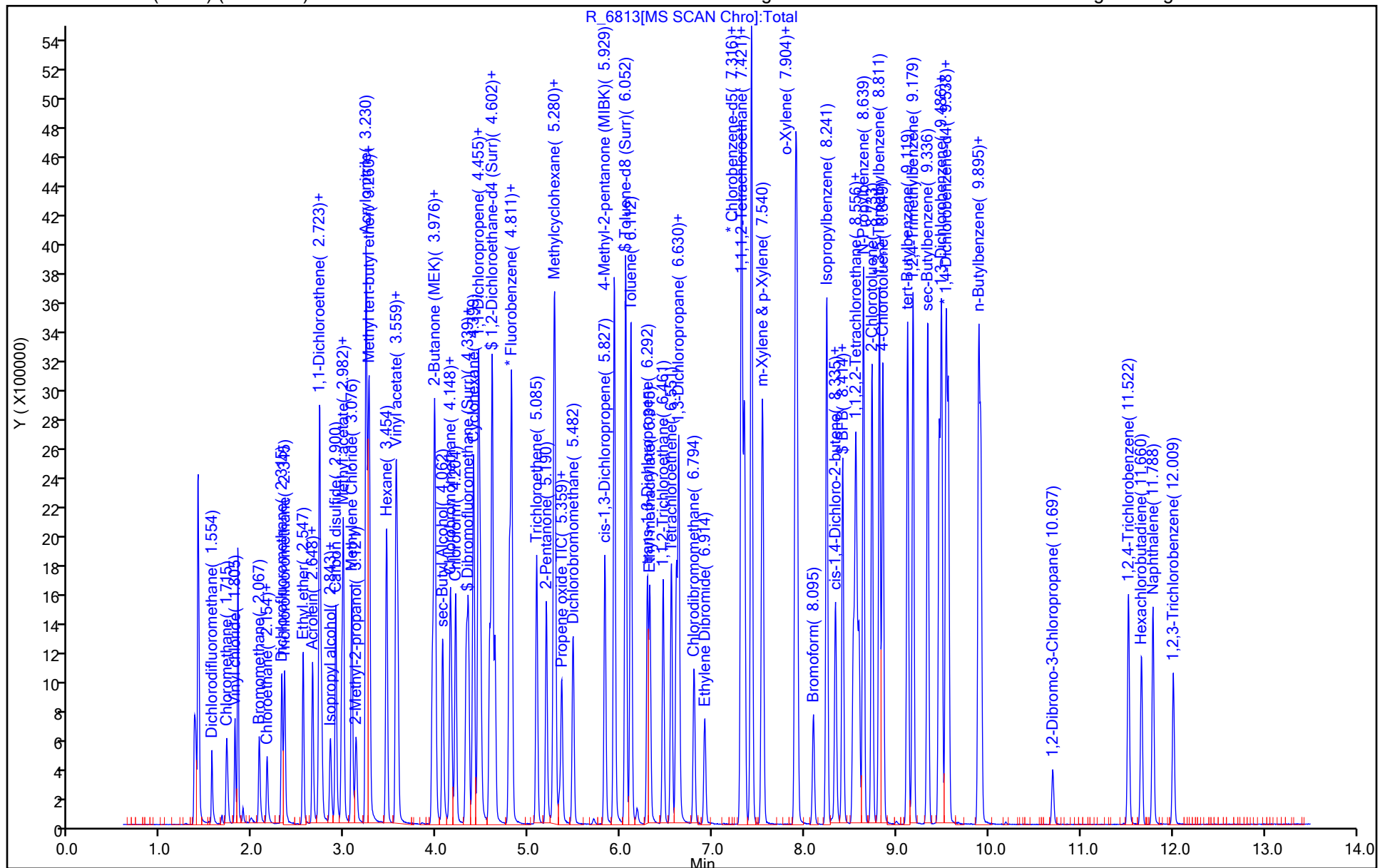
ALS Bottle#: 25

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6813.D
 Lims ID: 280-179475-A-13 MSD
 Client ID: PA-3-20230722
 Sample Type: MSD
 Inject. Date: 04-Aug-2023 01:47:30 ALS Bottle#: 25 Worklist Smp#: 32
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179475-A-13 MSD
 Misc. Info.: 280-0124173-032
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 10:59:07 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1676

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.4	100.90
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.3	106.55
\$ 6 Toluene-d8 (Surr)	50.0	50.3	100.58
\$ 7 4-Bromofluorobenzene (Surr)	50.0	50.9	101.71

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins DenverJob No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1Start Date: 06/20/2018 23:30Analysis Batch Number: 419367End Date: 06/21/2018 09:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-419367/1		06/20/2018 23:30	1	R2068.D	DB-624 (60.25) 0.25 (mm)
STD60 280-419367/10 IC		06/21/2018 00:33	1		DB-624 (60.25) 0.25 (mm)
STD30 280-419367/11 IC		06/21/2018 00:52	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 00:52	1		DB-624 (60.25) 0.25 (mm)
STD10 280-419367/12 IC		06/21/2018 01:11	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 01:11	1		DB-624 (60.25) 0.25 (mm)
STD5 280-419367/13 IC		06/21/2018 01:30	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 01:30	1		DB-624 (60.25) 0.25 (mm)
STD2 280-419367/14 IC		06/21/2018 01:49	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 01:49	1		DB-624 (60.25) 0.25 (mm)
STD1 280-419367/15 IC		06/21/2018 02:08	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 02:08	1		DB-624 (60.25) 0.25 (mm)
STD03 280-419367/16 IC		06/21/2018 02:28	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 02:28	1		DB-624 (60.25) 0.25 (mm)
ICV 280-419367/17		06/21/2018 02:47	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 05:58	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 06:17	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 06:36	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 06:55	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 07:14	1		DB-624 (60.25) 0.25 (mm)
STD 280-419367/18 IC		06/21/2018 07:34	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 07:34	1		DB-624 (60.25) 0.25 (mm)
STD 280-419367/19 IC		06/21/2018 07:53	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 07:53	1		DB-624 (60.25) 0.25 (mm)
STD 280-419367/20 IC		06/21/2018 08:12	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 08:12	1		DB-624 (60.25) 0.25 (mm)
ICIS 280-419367/21		06/21/2018 08:32	1	R2088.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 08:32	1		DB-624 (60.25) 0.25 (mm)
STD 280-419367/22 IC		06/21/2018 08:51	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 08:51	1		DB-624 (60.25) 0.25 (mm)
STD 280-419367/23 IC		06/21/2018 09:10	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		06/21/2018 09:10	1		DB-624 (60.25) 0.25 (mm)
ICV 280-419367/24		06/21/2018 09:29	1	R2091.D	DB-624 (60.25) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins DenverJob No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1Start Date: 03/29/2022 15:57Analysis Batch Number: 570124End Date: 03/29/2022 22:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-570124/1		03/29/2022 15:57	1	R3107.D	DB-624 (60.25) 0.25 (mm)
STD1 280-570124/14 IC		03/29/2022 17:08	1	R3108.D	DB-624 (60.25) 0.25 (mm)
STD2 280-570124/15 IC		03/29/2022 17:29	1	R3109.D	DB-624 (60.25) 0.25 (mm)
STD5 280-570124/16 IC		03/29/2022 17:51	1	R3110.D	DB-624 (60.25) 0.25 (mm)
STD10 280-570124/17 IC		03/29/2022 18:13	1	R3111.D	DB-624 (60.25) 0.25 (mm)
STD50 280-570124/18 IC		03/29/2022 18:35	1	R3112.D	DB-624 (60.25) 0.25 (mm)
STD75 280-570124/19 IC		03/29/2022 18:57	1	R3113.D	DB-624 (60.25) 0.25 (mm)
STD100 280-570124/20 IC		03/29/2022 19:18	1	R3114.D	DB-624 (60.25) 0.25 (mm)
STD200 280-570124/21 IC		03/29/2022 19:40	1	R3115.D	DB-624 (60.25) 0.25 (mm)
ICV 280-570124/22		03/29/2022 20:24	1	R3117.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		03/29/2022 21:07	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		03/29/2022 21:29	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		03/29/2022 21:50	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		03/29/2022 22:12	1		DB-624 (60.25) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_MS13 Start Date: 07/07/2023 23:31Analysis Batch Number: 618851 End Date: 07/10/2023 22:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-618851/1		07/07/2023 23:31	1	MS13_003245a.D	RXI-624SilMS 0.25 (mm)
IC 280-618851/24		07/07/2023 23:31	1	MS13_003245.D	RXI-624SilMS 0.25 (mm)
IC 280-618851/25		07/07/2023 23:54	1	MS13_003246.D	RXI-624SilMS 0.25 (mm)
IC 280-618851/26		07/08/2023 00:16	1	MS13_003247.D	RXI-624SilMS 0.25 (mm)
ICIS 280-618851/27		07/08/2023 00:38	1	MS13_003248.D	RXI-624SilMS 0.25 (mm)
IC 280-618851/28		07/08/2023 01:00	1	MS13_003249.D	RXI-624SilMS 0.25 (mm)
IC 280-618851/29		07/08/2023 01:22	1	MS13_003250.D	RXI-624SilMS 0.25 (mm)
IC 280-618851/30		07/08/2023 01:44	1	MS13_003251.D	RXI-624SilMS 0.25 (mm)
IC 280-618851/31		07/08/2023 02:07	1	MS13_003252.D	RXI-624SilMS 0.25 (mm)
IC 280-618851/32		07/08/2023 02:29	1	MS13_003253.D	RXI-624SilMS 0.25 (mm)
BFB 280-618851/34		07/10/2023 21:45	1	MS13_003255.D	RXI-624SilMS 0.25 (mm)
ICV 280-618851/35		07/10/2023 22:07	1	MS13_003256.D	RXI-624SilMS 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_MS13 Start Date: 07/10/2023 22:39Analysis Batch Number: 619014 End Date: 07/11/2023 02:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-619014/1		07/10/2023 22:39	1	MS13_003257.D	RXI-624SilMS 0.25 (mm)
IC 280-619014/24		07/10/2023 23:01	1	MS13_003258.D	RXI-624SilMS 0.25 (mm)
IC 280-619014/25		07/10/2023 23:24	1	MS13_003259.D	RXI-624SilMS 0.25 (mm)
IC 280-619014/26		07/10/2023 23:46	1	MS13_003260.D	RXI-624SilMS 0.25 (mm)
IC 280-619014/27		07/11/2023 00:08	1	MS13_003261.D	RXI-624SilMS 0.25 (mm)
IC 280-619014/28		07/11/2023 00:31	1	MS13_003262.D	RXI-624SilMS 0.25 (mm)
IC 280-619014/29		07/11/2023 00:53	1	MS13_003263.D	RXI-624SilMS 0.25 (mm)
IC 280-619014/30		07/11/2023 01:16	1	MS13_003264.D	RXI-624SilMS 0.25 (mm)
IC 280-619014/31		07/11/2023 01:38	1	MS13_003265.D	RXI-624SilMS 0.25 (mm)
ICV 280-619014/32		07/11/2023 02:00	1	MS13_003266.D	RXI-624SilMS 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1 Start Date: 07/30/2023 15:30Analysis Batch Number: 621220 End Date: 07/30/2023 19:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621220/1		07/30/2023 15:30	1	R_6567.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/13		07/30/2023 16:32	1	R_6570.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/14		07/30/2023 16:53	1	R_6571.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/15		07/30/2023 17:14	1	R_6572.D	DB-624 (60.25) 0.25 (mm)
ICIS 280-621220/16		07/30/2023 17:35	1	R_6573.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/17		07/30/2023 17:56	1	R_6574.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/18		07/30/2023 18:16	1	R_6575.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/19		07/30/2023 18:37	1	R_6576.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/20		07/30/2023 18:58	1	R_6577.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/21		07/30/2023 19:19	1	R_6578.D	DB-624 (60.25) 0.25 (mm)
ICV 280-621220/22		07/30/2023 19:40	1	R_6579.D	DB-624 (60.25) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins DenverJob No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_MS13Start Date: 08/01/2023 08:14Analysis Batch Number: 621382End Date: 08/01/2023 19:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621382/1		08/01/2023 08:14	1	MS13_004047.D	RXI-624SilMS 0.25 (mm)
CCV 280-621382/3		08/01/2023 09:08	1	MS13_004049.D	RXI-624SilMS 0.25 (mm)
LCS 280-621382/5		08/01/2023 09:08	1	MS13_004049A.D	RXI-624SilMS 0.25 (mm)
LCS 280-621382/4		08/01/2023 10:18	1	MS13_004051A.D	RXI-624SilMS 0.25 (mm)
CCV 280-621382/13		08/01/2023 10:18	1	MS13_004051.D	RXI-624SilMS 0.25 (mm)
LCSD 280-621382/6		08/01/2023 10:40	1	MS13_004052.D	RXI-624SilMS 0.25 (mm)
LCSD 280-621382/7		08/01/2023 11:03	1	MS13_004053.D	RXI-624SilMS 0.25 (mm)
MB 280-621382/9		08/01/2023 11:48	1	MS13_004055.D	RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 12:11	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 12:33	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 12:56	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 13:18	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 13:41	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 14:03	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 14:26	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 14:48	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 15:11	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 15:33	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 15:56	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 16:18	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 16:41	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 17:04	1		RXI-624SilMS 0.25 (mm)
280-179475-1	RW-2172F-20230718	08/01/2023 17:26	1	MS13_004070.D	RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 17:49	2		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 18:11	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/01/2023 18:34	1		RXI-624SilMS 0.25 (mm)
CCVC 280-621382/32		08/01/2023 18:56	1		RXI-624SilMS 0.25 (mm)
CCVC 280-621382/33		08/01/2023 19:19	1		RXI-624SilMS 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins DenverJob No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1Start Date: 08/02/2023 16:22Analysis Batch Number: 621621End Date: 08/03/2023 02:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621621/1		08/02/2023 16:22	1	R_6730a.D	DB-624 (60.25) 0.25 (mm)
CCV 280-621621/2		08/02/2023 16:22	1	R_6730aa.D	DB-624 (60.25) 0.25 (mm)
LCS 280-621621/4		08/02/2023 16:22	1	R_6730c.D	DB-624 (60.25) 0.25 (mm)
CCV 280-621621/3		08/02/2023 16:43	1	R_6731a.D	DB-624 (60.25) 0.25 (mm)
LCS 280-621621/5		08/02/2023 16:43	1	R_6731aa.D	DB-624 (60.25) 0.25 (mm)
LCSD 280-621621/6		08/02/2023 17:21	1	R_6732.D	DB-624 (60.25) 0.25 (mm)
LCSD 280-621621/7		08/02/2023 17:42	1	R_6733.D	DB-624 (60.25) 0.25 (mm)
MB 280-621621/9		08/02/2023 18:24	1	R_6735.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/02/2023 18:45	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/02/2023 19:06	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/02/2023 19:27	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/02/2023 19:48	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/02/2023 20:08	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/02/2023 20:30	1		DB-624 (60.25) 0.25 (mm)
280-179475-2	RW-2203H-20230719	08/02/2023 20:51	1	R_6742.D	DB-624 (60.25) 0.25 (mm)
280-179475-3	RW-8030P-20230720	08/02/2023 21:12	1	R_6743.D	DB-624 (60.25) 0.25 (mm)
280-179475-4	RW-2879M-20230720	08/02/2023 21:32	1	R_6744.D	DB-624 (60.25) 0.25 (mm)
280-179475-5	RW-2151H-20230720	08/02/2023 21:53	1	R_6745.D	DB-624 (60.25) 0.25 (mm)
280-179475-6	RW-2237H-20230720	08/02/2023 22:14	1	R_6746.D	DB-624 (60.25) 0.25 (mm)
280-179475-7	RW-7200P-20230720	08/02/2023 22:35	1	R_6747.D	DB-624 (60.25) 0.25 (mm)
280-179475-8	RW-8105PS-20230720	08/02/2023 22:56	1	R_6748.D	DB-624 (60.25) 0.25 (mm)
280-179475-9	RW-7505P-20230720	08/02/2023 23:17	1	R_6749.D	DB-624 (60.25) 0.25 (mm)
280-179475-10	RW-7505P-Q-20230720	08/02/2023 23:37	1	R_6750.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/02/2023 23:58	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 00:19	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 00:40	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 01:00	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 01:21	1		DB-624 (60.25) 0.25 (mm)
CCVC 280-621621/33		08/03/2023 01:42	1		DB-624 (60.25) 0.25 (mm)
CCVC 280-621621/34		08/03/2023 02:03	1		DB-624 (60.25) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins DenverJob No.: 280-179475-1

SDG No.: _____

Instrument ID: VMS_R1Start Date: 08/03/2023 16:12Analysis Batch Number: 621775End Date: 08/04/2023 02:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621775/1		08/03/2023 16:12	1	R_6787c.D	DB-624 (60.25) 0.25 (mm)
CCV 280-621775/2		08/03/2023 16:12	1	R_6787aa.D	DB-624 (60.25) 0.25 (mm)
LCS 280-621775/4		08/03/2023 16:12	1	R_6787bb.D	DB-624 (60.25) 0.25 (mm)
CCV 280-621775/3		08/03/2023 16:33	1	R_6788a.D	DB-624 (60.25) 0.25 (mm)
LCS 280-621775/5		08/03/2023 16:33	1	R_6788b.D	DB-624 (60.25) 0.25 (mm)
LCSD 280-621775/6		08/03/2023 17:14	1	R_6789.D	DB-624 (60.25) 0.25 (mm)
LCSD 280-621775/7		08/03/2023 17:35	1	R_6790.D	DB-624 (60.25) 0.25 (mm)
MB 280-621775/9		08/03/2023 18:17	1	R_6792.D	DB-624 (60.25) 0.25 (mm)
280-179475-11	TB-01-20230723	08/03/2023 18:46	1	R_6793.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 19:07	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 19:28	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 19:53	1		DB-624 (60.25) 0.25 (mm)
280-179475-12	RW-2140H-20230723	08/03/2023 20:14	1	R_6797.D	DB-624 (60.25) 0.25 (mm)
280-179475-13	PA-3-20230722	08/03/2023 20:35	1	R_6798.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 20:56	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 21:17	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 21:37	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 21:58	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 22:19	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 22:40	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 23:01	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 23:22	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 23:42	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 00:03	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 00:24	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 00:45	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 01:05	1		DB-624 (60.25) 0.25 (mm)
280-179475-13 MS	PA-3-20230722 MS	08/04/2023 01:26	1	R_6812.D	DB-624 (60.25) 0.25 (mm)
280-179475-13 MSD	PA-3-20230722 MSD	08/04/2023 01:47	1	R_6813.D	DB-624 (60.25) 0.25 (mm)
CCVC 280-621775/33		08/04/2023 02:07	1		DB-624 (60.25) 0.25 (mm)
CCVC 280-621775/34		08/04/2023 02:28	1		DB-624 (60.25) 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 419367 Batch Start Date: 06/20/18 23:30 Batch Analyst: Lines, Jeremy NBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Freon_A 00009	Freon_B 00008	MV-568718-D 00014	MV-ARCH SS A 00098
BFB 280-419367/1		8260D		1 uL	1 uL				
ICIS 280-419367/21		8260D		20 mL	20 mL	5 uL		1 uL	0.8 uL
ICV 280-419367/24		8260D		20 mL	20 mL		5 uL	1 uL	0.8 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MV-BFB 00026	MV-Supp A 00030	MV-Supp B 00020			
BFB 280-419367/1		8260D		1 uL					
ICIS 280-419367/21		8260D			5 uL				
ICV 280-419367/24		8260D				5 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 570124 Batch Start Date: 03/29/22 15:57 Batch Analyst: Pepping, Andrew JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	mv-Cent BFB 00004	mv-Cent IS 00006	mv-IS_SS 00036	MV-Supp A 00064
BFB 280-570124/1		8260D		2 uL	2 uL	5 uL			
STD1 280-570124/14 IC		8260D		5 mL	5 mL		5 uL		1 uL
STD2 280-570124/15 IC		8260D		5 mL	5 mL		5 uL		2 uL
STD5 280-570124/16 IC		8260D		5 mL	5 mL		5 uL		5 uL
STD10 280-570124/17 IC		8260D		5 mL	5 mL		5 uL		10 uL
STD50 280-570124/18 IC		8260D		5 mL	5 mL		5 uL		50 uL
STD75 280-570124/19 IC		8260D		5 mL	5 mL		5 uL		75 uL
STD100 280-570124/20 IC		8260D		5 mL	5 mL		5 uL		100 uL
STD200 280-570124/21 IC		8260D		5 mL	5 mL		5 uL		200 uL
ICV 280-570124/22		8260D		5 mL	5 mL			5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MV-Supp B 00048					
BFB 280-570124/1		8260D							
STD1 280-570124/14 IC		8260D							
STD2 280-570124/15 IC		8260D							
STD5 280-570124/16 IC		8260D							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 570124 Batch Start Date: 03/29/22 15:57 Batch Analyst: Pepping, Andrew JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MV-Supp B 00048					
STD10 280-570124/17 IC		8260D							
STD50 280-570124/18 IC		8260D							
STD75 280-570124/19 IC		8260D							
STD100 280-570124/20 IC		8260D							
STD200 280-570124/21 IC		8260D							
ICV 280-570124/22		8260D		50 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 618851 Batch Start Date: 07/07/23 23:31 Batch Analyst: Fogg, Cameron CBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Cal Dil Std 00202	mv-Cent BFB 00005	MV-Gas A 00156	MV-Gas B 00137
BFB 280-618851/1		8260D		5 mL	5 mL		5 uL		
IC 280-618851/24		8260D		5 mL	5 mL				40 uL
IC 280-618851/25		8260D		5 mL	5 mL				20 uL
IC 280-618851/26		8260D		5 mL	5 mL				15 uL
ICIS 280-618851/27		8260D		5 mL	5 mL				10 uL
IC 280-618851/28		8260D		5 mL	5 mL				2 uL
IC 280-618851/29		8260D		5 mL	5 mL				1 uL
IC 280-618851/30		8260D		5 mL	5 mL	20 uL			
IC 280-618851/31		8260D		5 mL	5 mL	10 uL			
IC 280-618851/32		8260D		5 mL	5 mL	5 uL			
BFB 280-618851/34		8260D		5 mL	5 mL		5 uL		
ICV 280-618851/35		8260D		5 mL	5 mL			10 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00064	MV-MegaMain B 00086	MV-MegaMainA 00091			
BFB 280-618851/1		8260D							
IC 280-618851/24		8260D		5 uL	100 uL				
IC 280-618851/25		8260D		5 uL	50 uL				
IC 280-618851/26		8260D		5 uL	37.5 uL				
ICIS 280-618851/27		8260D		5 uL	25 uL				
IC 280-618851/28		8260D		5 uL	5 uL				
IC 280-618851/29		8260D		5 uL	2.5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 618851 Batch Start Date: 07/07/23 23:31 Batch Analyst: Fogg, Cameron CBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00064	MV-MegaMain B 00086	MV-MegaMainA 00091			
IC 280-618851/30		8260D		5 uL					
IC 280-618851/31		8260D		5 uL					
IC 280-618851/32		8260D		5 uL					
BFB 280-618851/34		8260D		5 uL					
ICV 280-618851/35		8260D		5 uL		25 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 619014 Batch Start Date: 07/10/23 22:39 Batch Analyst: Seifert, Judy LBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	mv-Cent BFB 00005	mv-IS_SS 00064	MV-Supp A 00083	MV-Supp B 00062
BFB 280-619014/1		8260D		5 mL	5 mL	5 uL			
IC 280-619014/24		8260D		5 mL	5 mL		5 uL		200 uL
IC 280-619014/25		8260D		5 mL	5 mL		5 uL		100 uL
IC 280-619014/26		8260D		5 mL	5 mL		5 uL		75 uL
IC 280-619014/27		8260D		5 mL	5 mL		5 uL		50 uL
IC 280-619014/28		8260D		5 mL	5 mL		5 uL		10 uL
IC 280-619014/29		8260D		5 mL	5 mL		5 uL		5 uL
IC 280-619014/30		8260D		5 mL	5 mL		5 uL		2 uL
IC 280-619014/31		8260D		5 mL	5 mL		5 uL		1 uL
ICV 280-619014/32		8260D		5 mL	5 mL		5 uL	50 uL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 621220 Batch Start Date: 07/30/23 15:30 Batch Analyst: Wickham, Tom ABatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Cal Dil Std 00214	mv-Cent BFB 00005	MV-Gas A 00160	MV-Gas B 00142
BFB 280-621220/1		8260D		2 uL	2 uL		5 uL		
IC 280-621220/13		8260D		5 mL	5 mL			40 uL	
IC 280-621220/14		8260D		5 mL	5 mL			20 uL	
IC 280-621220/15		8260D		5 mL	5 mL			15 uL	
ICIS 280-621220/16		8260D		5 mL	5 mL			10 uL	
IC 280-621220/17		8260D		5 mL	5 mL			2 uL	
IC 280-621220/18		8260D		5 mL	5 mL			1 uL	
IC 280-621220/19		8260D		5 mL	5 mL	20 uL			
IC 280-621220/20		8260D		5 mL	5 mL	10 uL			
IC 280-621220/21		8260D		5 mL	5 mL	5 uL			
ICV 280-621220/22		8260D		5 mL	5 mL				10 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMain B 00088	MV-MegaMainA 00092			
BFB 280-621220/1		8260D							
IC 280-621220/13		8260D		5 uL		100 uL			
IC 280-621220/14		8260D		5 uL		50 uL			
IC 280-621220/15		8260D		5 uL		37.5 uL			
ICIS 280-621220/16		8260D		5 uL		25 uL			
IC 280-621220/17		8260D		5 uL		5 uL			
IC 280-621220/18		8260D		5 uL		2.5 uL			
IC 280-621220/19		8260D		5 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 621220 Batch Start Date: 07/30/23 15:30 Batch Analyst: Wickham, Tom ABatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMain B 00088	MV-MegaMainA 00092			
IC 280-621220/20		8260D		5 uL					
IC 280-621220/21		8260D		5 uL					
ICV 280-621220/22		8260D		5 uL	25 uL				

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 621382 Batch Start Date: 08/01/23 08:14 Batch Analyst: Coulter, Dawn (goes by ShBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Headspace	mv-Cent BFB 00005	MV-Gas B 00141	mv-IS_SS 00064
BFB 280-621382/1		8260D		5 mL	5 mL		5 uL		
CCV 280-621382/3		8260D		5 mL	5 mL				5 uL
LCS 280-621382/4		8260D		5 mL	5 mL			10 uL	5 uL
LCS 280-621382/5		8260D		5 mL	5 mL				5 uL
LCSD 280-621382/6		8260D		5 mL	5 mL			10 uL	5 uL
LCSD 280-621382/7		8260D		5 mL	5 mL				5 uL
MB 280-621382/9		8260D		5 mL	5 mL				5 uL
CCV 280-621382/13		8260D		5 mL	5 mL			10 uL	5 uL
280-179475-A-1	RW-2172F-20230718	8260D	T	5 mL	5 mL	N			5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MV-MegaMain B 00088	MV-Supp B 00064	AnalysisComment			
BFB 280-621382/1		8260D							
CCV 280-621382/3		8260D			25 uL				
LCS 280-621382/4		8260D		25 uL					
LCS 280-621382/5		8260D			25 uL				
LCSD 280-621382/6		8260D		25 uL					
LCSD 280-621382/7		8260D			25 uL				
MB 280-621382/9		8260D							
CCV 280-621382/13		8260D		25 uL					
280-179475-A-1	RW-2172F-20230718	8260D	T			HCl			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 621382 Batch Start Date: 08/01/23 08:14 Batch Analyst: Coulter, Dawn (goes by ShBatch Method: 8260D Batch End Date: _____

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 621621 Batch Start Date: 08/02/23 16:22 Batch Analyst: Dymerski, Samuel JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00005	MV-Gas A 00159
BFB 280-621621/1		8260D		2 uL	2 uL			5 uL	
CCV 280-621621/2		8260D		5 mL	5 mL				10 uL
CCV 280-621621/3		8260D		5 mL	5 mL				
LCS 280-621621/4		8260D		5 mL	5 mL				10 uL
LCS 280-621621/5		8260D		5 mL	5 mL				
LCSD 280-621621/6		8260D		5 mL	5 mL				10 uL
LCSD 280-621621/7		8260D		5 mL	5 mL				
MB 280-621621/9		8260D		5 mL	5 mL				
280-179475-A-2	RW-2203H-20230719	8260D	T	5 mL	5 mL	<2 SU	n		
280-179475-B-3	RW-8030P-20230720	8260D	T	5 mL	5 mL	<2 SU	n		
280-179475-B-4	RW-2879M-20230720	8260D	T	5 mL	5 mL	<2 SU	n		
280-179475-A-5	RW-2151H-20230720	8260D	T	5 mL	5 mL	<2 SU	y		
280-179475-A-6	RW-2237H-20230720	8260D	T	5 mL	5 mL	<2 SU	n		
280-179475-C-7	RW-7200P-20230720	8260D	T	5 mL	5 mL	<2 SU	n		
280-179475-B-8	RW-8105PS-20230720	8260D	T	5 mL	5 mL	<2 SU	n		
280-179475-C-9	RW-7505P-20230720	8260D	T	5 mL	5 mL	<2 SU	y		
280-179475-B-10	RW-7505P-Q-20230720	8260D	T	5 mL	5 mL	<2 SU	n		

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMainA 00092	MV-Supp A 00083			
BFB 280-621621/1		8260D							
CCV 280-621621/2		8260D		5 uL	25 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 621621 Batch Start Date: 08/02/23 16:22 Batch Analyst: Dymerski, Samuel JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMainA 00092	MV-Supp A 00083			
CCV 280-621621/3		8260D		5 uL		25 uL			
LCS 280-621621/4		8260D		5 uL	25 uL				
LCS 280-621621/5		8260D		5 uL		25 uL			
LCSD 280-621621/6		8260D		5 uL	25 uL				
LCSD 280-621621/7		8260D		5 uL		25 uL			
MB 280-621621/9		8260D		5 uL					
280-179475-A-2	RW-2203H-20230719	8260D	T	5 uL					
280-179475-B-3	RW-8030P-20230720	8260D	T	5 uL					
280-179475-B-4	RW-2879M-20230720	8260D	T	5 uL					
280-179475-A-5	RW-2151H-20230720	8260D	T	5 uL					
280-179475-A-6	RW-2237H-20230720	8260D	T	5 uL					
280-179475-C-7	RW-7200P-20230720	8260D	T	5 uL					
280-179475-B-8	RW-8105PS-20230720	8260D	T	5 uL					
280-179475-C-9	RW-7505P-20230720	8260D	T	5 uL					
280-179475-B-10	RW-7505P-Q-20230720	8260D	T	5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 621775 Batch Start Date: 08/03/23 16:12 Batch Analyst: Dymerski, Samuel JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00005	MV-Gas A 00159
BFB 280-621775/1		8260D		2 uL	2 uL			5 uL	
CCV 280-621775/2		8260D		5 mL	5 mL				10 uL
CCV 280-621775/3		8260D		5 mL	5 mL				
LCS 280-621775/4		8260D		5 mL	5 mL				10 uL
LCS 280-621775/5		8260D		5 mL	5 mL				
LCSD 280-621775/6		8260D		5 mL	5 mL				10 uL
LCSD 280-621775/7		8260D		5 mL	5 mL				
MB 280-621775/9		8260D		5 mL	5 mL				
280-179475-A-11	TB-01-20230723	8260D	T	5 mL	5 mL	<2 SU	n		
280-179475-B-12	RW-2140H-20230723	8260D	T	5 mL	5 mL	<2 SU	n		
280-179475-B-13	PA-3-20230722	8260D	T	5 mL	5 mL	<2 SU	y		
280-179475-B-13 MS	PA-3-20230722	8260D	T	5 mL	5 mL	<2 SU	y		10 uL
280-179475-A-13 MSD	PA-3-20230722	8260D	T	5 mL	5 mL	<2 SU	n		10 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMainA 00092	MV-Supp A 00083			
BFB 280-621775/1		8260D							
CCV 280-621775/2		8260D		5 uL	25 uL				
CCV 280-621775/3		8260D		5 uL		25 uL			
LCS 280-621775/4		8260D		5 uL	25 uL				
LCS 280-621775/5		8260D		5 uL		25 uL			
LCSD 280-621775/6		8260D		5 uL	25 uL				
LCSD 280-621775/7		8260D		5 uL		25 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179475-1

SDG No.: _____

Batch Number: 621775 Batch Start Date: 08/03/23 16:12 Batch Analyst: Dymerski, Samuel JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMainA 00092	MV-Supp A 00083			
MB 280-621775/9		8260D		5 uL					
280-179475-A-11	TB-01-20230723	8260D	T	5 uL					
280-179475-B-12	RW-2140H-20230723	8260D	T	5 uL					
280-179475-B-13	PA-3-20230722	8260D	T	5 uL					
280-179475-B-13 MS	PA-3-20230722	8260D	T	5 uL	25 uL				
280-179475-A-13 MSD	PA-3-20230722	8260D	T	5 uL	25 uL				

Batch Notes	

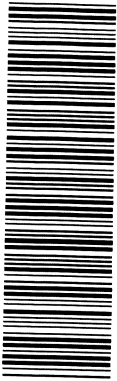
Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 2 of 2

Shipping and Receiving Documents



Eurofins TestAmerica Denver
4955 Yarrow Street
Avada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record



Environment Testing
TestAmerica

280-179475 Chain of Custody

Client Information		Lab PM:		Carrier Tracking No(s):		COC No:																								
Client Contact: Mary Lou Fox		Bientulis, Dylan T.				Page: 1 of 2																								
Company: CDM Smith, Inc.		E-Mail: Dylan.Bientulis@et.eurofins.com				Job #:																								
Address: 14432 S.E. Eastgate Way Suite 100		Due Date Requested:		Analysis Requested																										
City: Bellvue		TAT Requested (days): 15 business days																												
State, Zip: WA, 98007																														
Phone: 425-519-8300		PO #: 98961.108577 Line 3																												
Email: FoxML@cdmsmith.com		WO #:																												
Project Name: Bannock Ft. Hall Mine LF, Idaho		Project #: 28018772																												
Site: Annual Offsite Groundwater		SSOW#:																												
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, BT-Tissue, Aque)	Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)																							
RW-2172F-20230718		7/18/23	1703	G	W	X	X	8260D - VOCs	8011 - EDB, DBCP, and 1,2,3-TCF	6020B - Total Metals	6020B - Dissolved Metals (Field Filtered)	7470A - Total Mercury	8270E - SVOCs	8321A - Herbicides and Pentachlorophenol	8270E - SIM - Benz[a]pyrene	8081B - OC Pesticides and 8082A - PCBs	8141B OP Pesticides	8290 - 2,3,7,8-TCDD (ETA SACRAMENTO)	4500 - CN, E - Total Cyanide	SM4500 - S ₂ D - Total Sulfide	9056A - Anions (NO ₃ , NO ₂ , Cl, SO ₄ , and Br)	9060A - TOC	RSK-175 - Dissolved Gases (MEA)	2320B - Alkalinity	Total Number of Containers	Special Instructions/Note:				
RW-2203H-20230719		7/19/23	1725	G	W	X	X																							
RW-8030P-20230720		7/20/23	0955	G	W	X	X																							
RW-2879M-20230720		7/20/23	1140	G	W	X	X																							
RW-2151H-20230720		7/20/23	1325	G	W	X	X																							
RW-2237H-20230720		7/20/23	1350	G	W	X	X																							
RW-7200P-20230720		7/20/23	1530	G	W	X	X																							
RW-8105PS-20230720		7/20/23	1645	G	W	X	X																							
RW-7505P-20230720		7/20/23	1625	G	W	X	X																							
RW-7505P-Q-20230720		7/20/23	1625	G	W	X	X																							
TB-01b-20230723		7/23/23	2130	G	W	X	X																							
Possible Hazard Identification		Poison B		Unknown		Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																						
Non-Hazard		Flammable		Skin Irritant		Deliverable Requested: I, II, III, IV, Other (specify)		Return To Client		Disposal By Lab		Archive For		Months																
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																								
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																				
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																				
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:																				
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:																										
Δ Yes Δ No		33 45 0.0 (RTD)																												

Environment Testing
TestAmerica

Environment Testing
TestAmerica

Phone (303) 736-0100 Fax (303) 431-7171

Client Information Client Contact: Mary Lou Fox Company: CDM Smith, Inc. Address: 14432 S.E. Eastgate Way Suite 100 City: Bellevue State, Zip: WA, 98007 Phone: 425-519-8300 Email: FoxML@cdmsmith.com Project Name: Bannock Fl. Hall Mine LF, Idaho Site: Annual Offsite Groundwater Sampling		Sampler: Emma Elvert Lab PM: Bienilius, Dylan T. Phone: 509-481-1031 E-Mail: Dylan.Bienilius@elEurofinsus.com		Carrier Tracking No(s): COC No:		Page: 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): 15 business days				Analysis Requested			
PO #: 98961 WO #: 108577 Line 3 Project #: 28018772 SSOW#:				Field Filtered Sample (Yes or No)			
Sample Identification RW-2140H-20230723 PA-3-20230722				Field Filtered Sample (Yes or No)			
Sample Date 7/23/23 7/22/23				Sample Time 1430 1215			
Sample Type (C=Comp, G=grab) G G				Matrix (W=water, S=solid, O=soil, B=biomass, A=air) W W			
Preservation Code:				Special Instructions/Note:			
Perform MS/MSD (Yes or No)				Special Instructions/Note:			
8260D - VOCs				8260D - VOCs			
8011 - EDB, DBCP, and 1,2,3-TCP				8011 - EDB, DBCP, and 1,2,3-TCP			
6020B - Total Metals				6020B - Total Metals			
6020B - Dissolved Metals (Field Filtered)				6020B - Dissolved Metals (Field Filtered)			
7470A - Total Mercury				7470A - Total Mercury			
8270E - SVOCs				8270E - SVOCs			
8321A - Herbicides and Pentachlorophenol				8321A - Herbicides and Pentachlorophenol			
8720E - SIM - Benz[a]pyrene				8720E - SIM - Benz[a]pyrene			
8081B - OC Pesticides and 8082A - PCBs				8081B - OC Pesticides and 8082A - PCBs			
8141B OP Pesticides				8141B OP Pesticides			
8290 - 2,3,7,8-TCDD (ETA SACRAMENTO)				8290 - 2,3,7,8-TCDD (ETA SACRAMENTO)			
4500_CN_E - Total Cyanide				4500_CN_E - Total Cyanide			
SM4500_S2_D - Total Sulfide				SM4500_S2_D - Total Sulfide			
9056A - Anions (NO3, NO2, Cl, SO4, and Br)				9056A - Anions (NO3, NO2, Cl, SO4, and Br)			
9060A - TOC				9060A - TOC			
RSK-175 - Dissolved Gases (MEEA)				RSK-175 - Dissolved Gases (MEEA)			
2220B - Alkalinity				2220B - Alkalinity			
Total Number of Containers				Total Number of Containers			
Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water V - MCAA W - pH 4.5 L - EDTA Z - other (specify)				Other:			

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 280-179475-1

Login Number: 179475

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	False	Narrative to indicate if headspace container used for analysis.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

PREPARED FOR

Attn: Mary Lou Fox
CDM Smith Inc
14432 S.E. Eastgate Way
Suite 100
Bellevue WA 98007-6493

Generated 8/9/2023 4:24 PM

JOB DESCRIPTION

Bannock Ft. Hall Mine LF, Idaho

JOB NUMBER

280-179478-1

Eurofins Denver

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Dylan T Bieniulis, Project Manager I
Dylan.Bieniulis@et.eurofinsus.com
303 736-0138

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Definitions/Glossary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

CASE NARRATIVE

Client: CDM Smith Inc

Project: Bannock Ft. Hall Mine LF, Idaho

Report Number: 280-179478-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/25/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.9 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples RW-8284P-20230720 (280-179478-1), RW-2076F-20230721 (280-179478-2), RW-2172H-20230721 (280-179478-3), RW-8048P-20230721 (280-179478-4), RW-8012P-20230721 (280-179478-5), RW-7677P-20230721 (280-179478-6), RW-2213F-20230721 (280-179478-7), RW-7773P-20230721 (280-179478-8), RW-7549P-20230721 (280-179478-9), PA-4-100-110-20230722 (280-179478-10), TB-02-20230723 (280-179478-11), PA-8-77-87-20230723 (280-179478-12), MW-116S-20230723 (280-179478-13), PA-1-20230722 (280-179478-14), EB-03-20230722 (280-179478-15) and PA-1-Q-20230722 (280-179478-16) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 08/03/2023, 08/04/2023 and 08/05/2023.

Acetonitrile failed the recovery criteria high for LCS 280-621653/6. The analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Acetonitrile failed the recovery criteria high for LCS 280-621775/5. Acetonitrile and Methacrylonitrile failed the recovery criteria high for LCSD 280-621775/7. These analytes were biased high in the LCS and/or LCSD and were not detected in the associated samples; therefore, the data have been reported.

Chloromethane and Dichlorodifluoromethane exceeded the RPD limit for LCSD 280-621775/6. LCS and LCSD percent recoveries were within control limits. Data has been qualified and reported.

Chloromethane, Dichlorodifluoromethane and Vinyl acetate exceeded the RPD limit for LCSD 280-621894/6. LCS and LCSD percent recoveries were within control limits. Data has been qualified and reported. Refer to the QC report for details.

Dichlorodifluoromethane exceeded the RPD limit for the MSD of sample RW-8048P-20230721 (280-179478-4) in batch 280-621775. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits. Refer to the QC report for details.

The following compounds were outside control limits (20%D) in the continuing calibration verification (CCV) associated with batch 280-621653: Acetonitrile (43%D), Chloroprene (28.5%D), Methacrylonitrile (41.2%D) and Propionitrile (24.2%D). These compounds are considered poor performing analytes. The LCS/LCSD pair recovered within control limits; therefore the data have been qualified and reported.

A continuing calibration verification (CCV) associated with batch 280-621653 recovered above the upper control limit (20%D) for Dichlorodifluoromethane (25.5%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 280-621775: Bromomethane (35%D) at -38.4%D. This compound is considered a poor performer and the laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recovered within limits for the compound, therefore, the data have been reported. The associated samples were non-detect for the affected analytes.

A continuing calibration verification (CCV) associated with batch 280-621775 recovered above the upper control limit for Chloroprene, Acetonitrile and Methacrylonitrile. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data

have been reported.

A continuing calibration verification (CCV) associated with batch 280-621922 recovered above the upper control limit for vinyl acetate (+27%D, limit 20%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

A continuing calibration verification (CCV) associated with batch 280-621894 recovered above the upper control limit (20%D) for Acetonitrile and Methacrylonitrile, recovering at 39.3 and 33.0%D, respectively. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

The following compound was outside control limits (20%D) in the continuing calibration verification (CCV) associated with batch 280-621894: Bromomethane (-27.3%D). This compound is considered a poor performer, and recovered within acceptance limits in the LCS and LCSD.

The following compounds were outside control limits in the continuing calibration verification (CCV) associated with batch 280-621894: Iodomethane (-22.0%D, limit 20%D). This a poor performing compound that recovered within control limits in both the LCS/LCSD. The associated samples were non-detect for the affected analytes; therefore, the data have been reported.

The following compound was outside control limits in the continuing calibration verification (CCV) associated with batch 280-621922: bromomethane (-20.6%D, limit 20%D). This is considered a poor performer and is within control limits in the LCS and LCSD.

The method requirement for no headspace was not met. The following volatile samples were analyzed with significant headspace in the sample containers: RW-2076F-20230721 (280-179478-2), RW-8048P-20230721 (280-179478-4), RW-8048P-20230721 (280-179478-4[MS]), RW-8048P-20230721 (280-179478-4[MSD]), RW-7677P-20230721 (280-179478-6), and PA-1-Q-20230722 (280-179478-16). Significant headspace is defined as a bubble greater than 6 mm in diameter.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-8284P-20230720

Lab Sample ID: 280-179478-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.5		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-2076F-20230721

Lab Sample ID: 280-179478-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.92	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-2172H-20230721

Lab Sample ID: 280-179478-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2		1.0	0.32	ug/L	1		8260D	Total/NA
Tetrachloroethene	3.2		1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene	17		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-8048P-20230721

Lab Sample ID: 280-179478-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.9		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-8012P-20230721

Lab Sample ID: 280-179478-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.99	J	1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-7677P-20230721

Lab Sample ID: 280-179478-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.37	J	1.0	0.32	ug/L	1		8260D	Total/NA
Tetrachloroethene	1.2		1.0	0.40	ug/L	1		8260D	Total/NA
Trichloroethene	7.0		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: RW-2213F-20230721

Lab Sample ID: 280-179478-7

No Detections.

Client Sample ID: RW-7773P-20230721

Lab Sample ID: 280-179478-8

No Detections.

Client Sample ID: RW-7549P-20230721

Lab Sample ID: 280-179478-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.0		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: PA-4-100-110-20230722

Lab Sample ID: 280-179478-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.1		1.0	0.30	ug/L	1		8260D	Total/NA

Client Sample ID: TB-02-20230723

Lab Sample ID: 280-179478-11

No Detections.

Client Sample ID: PA-8-77-87-20230723

Lab Sample ID: 280-179478-12

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: MW-116S-20230723

Lab Sample ID: 280-179478-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.52	J	1.0	0.32	ug/L	1			8260D	Total/NA
Tetrachloroethene	2.0		1.0	0.40	ug/L	1			8260D	Total/NA
Trichloroethene	14		1.0	0.30	ug/L	1			8260D	Total/NA

Client Sample ID: PA-1-20230722

Lab Sample ID: 280-179478-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Trichloroethene	0.50	J	1.0	0.30	ug/L	1			8260D	Total/NA

Client Sample ID: EB-03-20230722

Lab Sample ID: 280-179478-15

No Detections.

Client Sample ID: PA-1-Q-20230722

Lab Sample ID: 280-179478-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Trichloroethene	0.50	J	1.0	0.30	ug/L	1			8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-8284P-20230720

Lab Sample ID: 280-179478-1

Date Collected: 07/20/23 16:35

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 13:53	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 13:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 13:53	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 13:53	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 13:53	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 13:53	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 13:53	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 13:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 13:53	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 13:53	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 13:53	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 13:53	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 13:53	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 13:53	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 13:53	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 13:53	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 13:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 13:53	1
Acetone	ND		15	6.6	ug/L			08/03/23 13:53	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 13:53	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 13:53	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 13:53	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 13:53	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 13:53	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 13:53	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 13:53	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 13:53	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 13:53	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 13:53	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 13:53	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 13:53	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 13:53	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 13:53	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 13:53	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 13:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 13:53	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 13:53	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 13:53	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 13:53	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 13:53	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 13:53	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 13:53	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 13:53	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 13:53	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 13:53	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 13:53	1
Trichloroethene	1.5		1.0	0.30	ug/L			08/03/23 13:53	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 13:53	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 13:53	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-8284P-20230720

Lab Sample ID: 280-179478-1

Date Collected: 07/20/23 16:35

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 13:53	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 13:53	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 13:53	1
Acrolein	ND		20	4.9	ug/L			08/03/23 13:53	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 13:53	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 13:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 13:53	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 13:53	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 13:53	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 13:53	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 13:53	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 13:53	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 13:53	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 13:53	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 127		08/03/23 13:53	1
4-Bromofluorobenzene (Surr)	106		78 - 120		08/03/23 13:53	1
Toluene-d8 (Surr)	105		80 - 125		08/03/23 13:53	1
Dibromofluoromethane (Surr)	98		77 - 120		08/03/23 13:53	1

Client Sample ID: RW-2076F-20230721

Lab Sample ID: 280-179478-2

Date Collected: 07/21/23 11:35

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 14:15	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 14:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 14:15	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 14:15	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 14:15	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 14:15	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 14:15	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 14:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 14:15	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 14:15	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 14:15	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 14:15	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 14:15	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 14:15	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 14:15	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 14:15	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 14:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 14:15	1
Acetone	ND		15	6.6	ug/L			08/03/23 14:15	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 14:15	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 14:15	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 14:15	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-2076F-20230721

Lab Sample ID: 280-179478-2

Date Collected: 07/21/23 11:35

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 14:15	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 14:15	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 14:15	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 14:15	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 14:15	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 14:15	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 14:15	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 14:15	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 14:15	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 14:15	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 14:15	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 14:15	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 14:15	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 14:15	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 14:15	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 14:15	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 14:15	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 14:15	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 14:15	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 14:15	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 14:15	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 14:15	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 14:15	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 14:15	1
Trichloroethene	0.92	J	1.0	0.30	ug/L			08/03/23 14:15	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 14:15	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 14:15	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 14:15	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 14:15	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 14:15	1
Acrolein	ND		20	4.9	ug/L			08/03/23 14:15	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 14:15	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 14:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 14:15	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 14:15	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 14:15	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 14:15	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 14:15	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 14:15	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 14:15	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 14:15	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 127					08/03/23 14:15	1
4-Bromofluorobenzene (Surr)	105		78 - 120					08/03/23 14:15	1
Toluene-d8 (Surr)	103		80 - 125					08/03/23 14:15	1
Dibromofluoromethane (Surr)	99		77 - 120					08/03/23 14:15	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-2172H-20230721

Lab Sample ID: 280-179478-3

Date Collected: 07/21/23 13:40

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 14:36	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 14:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 14:36	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 14:36	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 14:36	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 14:36	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 14:36	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 14:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 14:36	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 14:36	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 14:36	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 14:36	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 14:36	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 14:36	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 14:36	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 14:36	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 14:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 14:36	1
Acetone	ND		15	6.6	ug/L			08/03/23 14:36	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 14:36	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 14:36	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 14:36	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 14:36	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 14:36	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 14:36	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 14:36	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 14:36	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 14:36	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 14:36	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 14:36	1
cis-1,2-Dichloroethene	1.2		1.0	0.32	ug/L			08/03/23 14:36	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 14:36	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 14:36	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 14:36	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 14:36	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 14:36	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 14:36	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 14:36	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 14:36	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 14:36	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 14:36	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 14:36	1
Tetrachloroethene	3.2		1.0	0.40	ug/L			08/03/23 14:36	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 14:36	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 14:36	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 14:36	1
Trichloroethene	17		1.0	0.30	ug/L			08/03/23 14:36	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 14:36	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 14:36	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-2172H-20230721

Lab Sample ID: 280-179478-3

Date Collected: 07/21/23 13:40

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 14:36	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 14:36	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 14:36	1
Acrolein	ND		20	4.9	ug/L			08/03/23 14:36	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 14:36	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 14:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 14:36	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 14:36	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 14:36	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 14:36	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 14:36	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 14:36	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 14:36	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 14:36	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 127		08/03/23 14:36	1
4-Bromofluorobenzene (Surr)	106		78 - 120		08/03/23 14:36	1
Toluene-d8 (Surr)	106		80 - 125		08/03/23 14:36	1
Dibromofluoromethane (Surr)	98		77 - 120		08/03/23 14:36	1

Client Sample ID: RW-8048P-20230721

Lab Sample ID: 280-179478-4

Date Collected: 07/21/23 12:20

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 19:53	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 19:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 19:53	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 19:53	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 19:53	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 19:53	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 19:53	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 19:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 19:53	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 19:53	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 19:53	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 19:53	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 19:53	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 19:53	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 19:53	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 19:53	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 19:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 19:53	1
Acetone	ND		15	6.6	ug/L			08/03/23 19:53	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 19:53	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 19:53	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 19:53	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-8048P-20230721

Lab Sample ID: 280-179478-4

Date Collected: 07/21/23 12:20

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 19:53	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 19:53	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 19:53	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 19:53	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 19:53	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 19:53	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 19:53	1
Chloromethane	ND	*1	2.0	0.75	ug/L			08/03/23 19:53	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 19:53	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 19:53	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 19:53	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 19:53	1
Dichlorodifluoromethane	ND	F2 *1	3.0	0.96	ug/L			08/03/23 19:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 19:53	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 19:53	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 19:53	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 19:53	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 19:53	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 19:53	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 19:53	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 19:53	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 19:53	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 19:53	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 19:53	1
Trichloroethene	3.9		1.0	0.30	ug/L			08/03/23 19:53	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 19:53	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 19:53	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 19:53	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 19:53	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 19:53	1
Acrolein	ND		20	4.9	ug/L			08/03/23 19:53	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 19:53	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 19:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 19:53	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 19:53	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 19:53	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 19:53	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 19:53	1
Methacrylonitrile	ND	*+	15	5.3	ug/L			08/03/23 19:53	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 19:53	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 19:53	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 127					08/03/23 19:53	1
4-Bromofluorobenzene (Surr)	106		78 - 120					08/03/23 19:53	1
Toluene-d8 (Surr)	102		80 - 125					08/03/23 19:53	1
Dibromofluoromethane (Surr)	99		77 - 120					08/03/23 19:53	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-8012P-20230721

Lab Sample ID: 280-179478-5

Date Collected: 07/21/23 14:10

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 14:57	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 14:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 14:57	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 14:57	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 14:57	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 14:57	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 14:57	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 14:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 14:57	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 14:57	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 14:57	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 14:57	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 14:57	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 14:57	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 14:57	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 14:57	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 14:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 14:57	1
Acetone	ND		15	6.6	ug/L			08/03/23 14:57	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 14:57	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 14:57	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 14:57	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 14:57	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 14:57	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 14:57	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 14:57	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 14:57	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 14:57	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 14:57	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 14:57	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 14:57	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 14:57	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 14:57	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 14:57	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 14:57	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 14:57	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 14:57	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 14:57	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 14:57	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 14:57	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 14:57	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 14:57	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 14:57	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 14:57	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 14:57	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 14:57	1
Trichloroethene	0.99	J	1.0	0.30	ug/L			08/03/23 14:57	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 14:57	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 14:57	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-8012P-20230721

Lab Sample ID: 280-179478-5

Date Collected: 07/21/23 14:10

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 14:57	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 14:57	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 14:57	1
Acrolein	ND		20	4.9	ug/L			08/03/23 14:57	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 14:57	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 14:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 14:57	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 14:57	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 14:57	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 14:57	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 14:57	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 14:57	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 14:57	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 14:57	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 127		08/03/23 14:57	1
4-Bromofluorobenzene (Surr)	105		78 - 120		08/03/23 14:57	1
Toluene-d8 (Surr)	103		80 - 125		08/03/23 14:57	1
Dibromofluoromethane (Surr)	98		77 - 120		08/03/23 14:57	1

Client Sample ID: RW-7677P-20230721

Lab Sample ID: 280-179478-6

Date Collected: 07/21/23 15:30

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 15:19	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 15:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 15:19	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 15:19	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 15:19	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 15:19	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 15:19	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 15:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 15:19	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 15:19	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 15:19	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 15:19	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 15:19	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 15:19	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 15:19	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 15:19	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 15:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 15:19	1
Acetone	ND		15	6.6	ug/L			08/03/23 15:19	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 15:19	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 15:19	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 15:19	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-7677P-20230721

Lab Sample ID: 280-179478-6

Date Collected: 07/21/23 15:30

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 15:19	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 15:19	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 15:19	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 15:19	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 15:19	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 15:19	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 15:19	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 15:19	1
cis-1,2-Dichloroethene	0.37	J	1.0	0.32	ug/L			08/03/23 15:19	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 15:19	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 15:19	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 15:19	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 15:19	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 15:19	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 15:19	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 15:19	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 15:19	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 15:19	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 15:19	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 15:19	1
Tetrachloroethene	1.2		1.0	0.40	ug/L			08/03/23 15:19	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 15:19	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 15:19	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 15:19	1
Trichloroethene	7.0		1.0	0.30	ug/L			08/03/23 15:19	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 15:19	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 15:19	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 15:19	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 15:19	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 15:19	1
Acrolein	ND		20	4.9	ug/L			08/03/23 15:19	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 15:19	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 15:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 15:19	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 15:19	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 15:19	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 15:19	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 15:19	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 15:19	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 15:19	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 15:19	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 127					08/03/23 15:19	1
4-Bromofluorobenzene (Surr)	105		78 - 120					08/03/23 15:19	1
Toluene-d8 (Surr)	104		80 - 125					08/03/23 15:19	1
Dibromofluoromethane (Surr)	98		77 - 120					08/03/23 15:19	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-2213F-20230721

Lab Sample ID: 280-179478-7

Date Collected: 07/21/23 15:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 15:40	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 15:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 15:40	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 15:40	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 15:40	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 15:40	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 15:40	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 15:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 15:40	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 15:40	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 15:40	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 15:40	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 15:40	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 15:40	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 15:40	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 15:40	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 15:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 15:40	1
Acetone	ND		15	6.6	ug/L			08/03/23 15:40	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 15:40	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 15:40	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 15:40	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 15:40	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 15:40	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 15:40	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 15:40	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 15:40	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 15:40	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 15:40	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 15:40	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 15:40	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 15:40	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 15:40	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 15:40	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 15:40	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 15:40	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 15:40	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 15:40	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 15:40	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 15:40	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 15:40	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 15:40	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 15:40	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 15:40	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 15:40	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 15:40	1
Trichloroethene	ND		1.0	0.30	ug/L			08/03/23 15:40	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 15:40	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 15:40	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-2213F-20230721

Lab Sample ID: 280-179478-7

Date Collected: 07/21/23 15:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 15:40	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 15:40	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 15:40	1
Acrolein	ND		20	4.9	ug/L			08/03/23 15:40	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 15:40	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 15:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 15:40	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 15:40	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 15:40	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 15:40	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 15:40	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 15:40	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 15:40	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 15:40	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 15:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 127		08/03/23 15:40	1
4-Bromofluorobenzene (Surr)	105		78 - 120		08/03/23 15:40	1
Toluene-d8 (Surr)	103		80 - 125		08/03/23 15:40	1
Dibromofluoromethane (Surr)	99		77 - 120		08/03/23 15:40	1

Client Sample ID: RW-7773P-20230721

Lab Sample ID: 280-179478-8

Date Collected: 07/21/23 16:20

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 16:02	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 16:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 16:02	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 16:02	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 16:02	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 16:02	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 16:02	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 16:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 16:02	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 16:02	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 16:02	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 16:02	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 16:02	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 16:02	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 16:02	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 16:02	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 16:02	1
Acetone	ND		15	6.6	ug/L			08/03/23 16:02	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 16:02	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 16:02	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 16:02	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-7773P-20230721

Lab Sample ID: 280-179478-8

Date Collected: 07/21/23 16:20

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 16:02	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 16:02	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 16:02	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 16:02	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 16:02	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 16:02	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 16:02	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 16:02	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 16:02	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 16:02	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 16:02	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 16:02	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 16:02	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 16:02	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 16:02	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 16:02	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 16:02	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 16:02	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 16:02	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 16:02	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 16:02	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 16:02	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 16:02	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 16:02	1
Trichloroethene	ND		1.0	0.30	ug/L			08/03/23 16:02	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 16:02	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 16:02	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 16:02	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 16:02	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 16:02	1
Acrolein	ND		20	4.9	ug/L			08/03/23 16:02	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 16:02	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 16:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 16:02	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 16:02	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 16:02	1
Acetonitrile	ND	+	30	9.6	ug/L			08/03/23 16:02	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 16:02	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 16:02	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 16:02	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 16:02	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 127					08/03/23 16:02	1
4-Bromofluorobenzene (Surr)	105		78 - 120					08/03/23 16:02	1
Toluene-d8 (Surr)	106		80 - 125					08/03/23 16:02	1
Dibromofluoromethane (Surr)	97		77 - 120					08/03/23 16:02	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-7549P-20230721

Lab Sample ID: 280-179478-9

Date Collected: 07/21/23 16:40

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 16:23	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 16:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 16:23	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 16:23	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 16:23	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 16:23	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 16:23	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 16:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 16:23	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 16:23	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 16:23	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 16:23	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 16:23	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 16:23	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 16:23	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 16:23	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 16:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 16:23	1
Acetone	ND		15	6.6	ug/L			08/03/23 16:23	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 16:23	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 16:23	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 16:23	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 16:23	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 16:23	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 16:23	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 16:23	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 16:23	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 16:23	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 16:23	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 16:23	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 16:23	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 16:23	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 16:23	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 16:23	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 16:23	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 16:23	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 16:23	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 16:23	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 16:23	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 16:23	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 16:23	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 16:23	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 16:23	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 16:23	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 16:23	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 16:23	1
Trichloroethene	2.0		1.0	0.30	ug/L			08/03/23 16:23	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 16:23	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 16:23	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-7549P-20230721

Lab Sample ID: 280-179478-9

Date Collected: 07/21/23 16:40

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 16:23	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 16:23	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 16:23	1
Acrolein	ND		20	4.9	ug/L			08/03/23 16:23	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 16:23	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 16:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 16:23	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 16:23	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 16:23	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 16:23	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 16:23	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 16:23	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 16:23	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 16:23	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 127		08/03/23 16:23	1
4-Bromofluorobenzene (Surr)	103		78 - 120		08/03/23 16:23	1
Toluene-d8 (Surr)	102		80 - 125		08/03/23 16:23	1
Dibromofluoromethane (Surr)	97		77 - 120		08/03/23 16:23	1

Client Sample ID: PA-4-100-110-20230722

Lab Sample ID: 280-179478-10

Date Collected: 07/22/23 11:00

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 16:45	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 16:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 16:45	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 16:45	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 16:45	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 16:45	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 16:45	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 16:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 16:45	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 16:45	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 16:45	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 16:45	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 16:45	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 16:45	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 16:45	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 16:45	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 16:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 16:45	1
Acetone	ND		15	6.6	ug/L			08/03/23 16:45	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 16:45	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 16:45	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 16:45	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: PA-4-100-110-20230722

Lab Sample ID: 280-179478-10

Date Collected: 07/22/23 11:00

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 16:45	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 16:45	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 16:45	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 16:45	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 16:45	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 16:45	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 16:45	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 16:45	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 16:45	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 16:45	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 16:45	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 16:45	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 16:45	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 16:45	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 16:45	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 16:45	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 16:45	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 16:45	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 16:45	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 16:45	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 16:45	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 16:45	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 16:45	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 16:45	1
Trichloroethene	1.1		1.0	0.30	ug/L			08/03/23 16:45	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 16:45	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 16:45	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 16:45	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 16:45	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 16:45	1
Acrolein	ND		20	4.9	ug/L			08/03/23 16:45	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 16:45	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 16:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 16:45	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 16:45	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 16:45	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 16:45	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 16:45	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 16:45	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 16:45	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 16:45	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 127					08/03/23 16:45	1
4-Bromofluorobenzene (Surr)	104		78 - 120					08/03/23 16:45	1
Toluene-d8 (Surr)	104		80 - 125					08/03/23 16:45	1
Dibromofluoromethane (Surr)	99		77 - 120					08/03/23 16:45	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: TB-02-20230723

Lab Sample ID: 280-179478-11

Date Collected: 07/23/23 21:00

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/04/23 19:31	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/04/23 19:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/04/23 19:31	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/04/23 19:31	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/04/23 19:31	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/04/23 19:31	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/04/23 19:31	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/04/23 19:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/04/23 19:31	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/04/23 19:31	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/04/23 19:31	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/04/23 19:31	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/04/23 19:31	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/04/23 19:31	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/04/23 19:31	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/04/23 19:31	1
2-Hexanone	ND		5.0	1.7	ug/L			08/04/23 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/04/23 19:31	1
Acetone	ND		15	6.6	ug/L			08/04/23 19:31	1
Benzene	ND		1.0	0.31	ug/L			08/04/23 19:31	1
Bromoform	ND		2.0	1.2	ug/L			08/04/23 19:31	1
Bromomethane	ND		5.0	2.4	ug/L			08/04/23 19:31	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/04/23 19:31	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/04/23 19:31	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/04/23 19:31	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/04/23 19:31	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/04/23 19:31	1
Chloroethane	ND		4.0	1.4	ug/L			08/04/23 19:31	1
Chloroform	ND		1.0	0.36	ug/L			08/04/23 19:31	1
Chloromethane	ND	*1	2.0	0.75	ug/L			08/04/23 19:31	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/04/23 19:31	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/04/23 19:31	1
Dibromomethane	ND		1.0	0.34	ug/L			08/04/23 19:31	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/04/23 19:31	1
Dichlorodifluoromethane	ND	*1	3.0	0.96	ug/L			08/04/23 19:31	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/04/23 19:31	1
Iodomethane	ND		5.0	2.6	ug/L			08/04/23 19:31	1
Isobutyl alcohol	ND		110	37	ug/L			08/04/23 19:31	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/04/23 19:31	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/04/23 19:31	1
o-Xylene	ND		1.0	0.33	ug/L			08/04/23 19:31	1
Styrene	ND		1.0	0.36	ug/L			08/04/23 19:31	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/04/23 19:31	1
Toluene	ND		1.0	0.32	ug/L			08/04/23 19:31	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/04/23 19:31	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/04/23 19:31	1
Trichloroethene	ND		1.0	0.30	ug/L			08/04/23 19:31	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/04/23 19:31	1
Vinyl acetate	ND	*1	3.0	0.94	ug/L			08/04/23 19:31	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: TB-02-20230723

Lab Sample ID: 280-179478-11

Date Collected: 07/23/23 21:00

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/04/23 19:31	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/04/23 19:31	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/04/23 19:31	1
Acrolein	ND		20	4.9	ug/L			08/04/23 19:31	1
Acrylonitrile	ND		20	4.5	ug/L			08/04/23 19:31	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/04/23 19:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/04/23 19:31	1
Allyl chloride	ND		2.0	0.17	ug/L			08/04/23 19:31	1
Chloroprene	ND		3.0	1.2	ug/L			08/04/23 19:31	1
Acetonitrile	ND		30	9.6	ug/L			08/04/23 19:31	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/04/23 19:31	1
Methacrylonitrile	ND		15	5.3	ug/L			08/04/23 19:31	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/04/23 19:31	1
Propionitrile	ND		20	3.7	ug/L			08/04/23 19:31	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/04/23 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 127		08/04/23 19:31	1
4-Bromofluorobenzene (Surr)	102		78 - 120		08/04/23 19:31	1
Toluene-d8 (Surr)	101		80 - 125		08/04/23 19:31	1
Dibromofluoromethane (Surr)	104		77 - 120		08/04/23 19:31	1

Client Sample ID: PA-8-77-87-20230723

Lab Sample ID: 280-179478-12

Date Collected: 07/23/23 11:10

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/04/23 23:41	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/04/23 23:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/04/23 23:41	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/04/23 23:41	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/04/23 23:41	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/04/23 23:41	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/04/23 23:41	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/04/23 23:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/04/23 23:41	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/04/23 23:41	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/04/23 23:41	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/04/23 23:41	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/04/23 23:41	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/04/23 23:41	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/04/23 23:41	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/04/23 23:41	1
2-Hexanone	ND		5.0	1.7	ug/L			08/04/23 23:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/04/23 23:41	1
Acetone	ND		15	6.6	ug/L			08/04/23 23:41	1
Benzene	ND		1.0	0.31	ug/L			08/04/23 23:41	1
Bromoform	ND		2.0	1.2	ug/L			08/04/23 23:41	1
Bromomethane	ND		5.0	2.4	ug/L			08/04/23 23:41	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: PA-8-77-87-20230723

Lab Sample ID: 280-179478-12

Date Collected: 07/23/23 11:10

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/04/23 23:41	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/04/23 23:41	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/04/23 23:41	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/04/23 23:41	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/04/23 23:41	1
Chloroethane	ND		4.0	1.4	ug/L			08/04/23 23:41	1
Chloroform	ND		1.0	0.36	ug/L			08/04/23 23:41	1
Chloromethane	ND	*1	2.0	0.75	ug/L			08/04/23 23:41	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/04/23 23:41	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/04/23 23:41	1
Dibromomethane	ND		1.0	0.34	ug/L			08/04/23 23:41	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/04/23 23:41	1
Dichlorodifluoromethane	ND	*1	3.0	0.96	ug/L			08/04/23 23:41	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/04/23 23:41	1
Iodomethane	ND		5.0	2.6	ug/L			08/04/23 23:41	1
Isobutyl alcohol	ND		110	37	ug/L			08/04/23 23:41	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/04/23 23:41	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/04/23 23:41	1
o-Xylene	ND		1.0	0.33	ug/L			08/04/23 23:41	1
Styrene	ND		1.0	0.36	ug/L			08/04/23 23:41	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/04/23 23:41	1
Toluene	ND		1.0	0.32	ug/L			08/04/23 23:41	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/04/23 23:41	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/04/23 23:41	1
Trichloroethene	ND		1.0	0.30	ug/L			08/04/23 23:41	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/04/23 23:41	1
Vinyl acetate	ND	*1	3.0	0.94	ug/L			08/04/23 23:41	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/04/23 23:41	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/04/23 23:41	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/04/23 23:41	1
Acrolein	ND		20	4.9	ug/L			08/04/23 23:41	1
Acrylonitrile	ND		20	4.5	ug/L			08/04/23 23:41	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/04/23 23:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/04/23 23:41	1
Allyl chloride	ND		2.0	0.17	ug/L			08/04/23 23:41	1
Chloroprene	ND		3.0	1.2	ug/L			08/04/23 23:41	1
Acetonitrile	ND		30	9.6	ug/L			08/04/23 23:41	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/04/23 23:41	1
Methacrylonitrile	ND		15	5.3	ug/L			08/04/23 23:41	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/04/23 23:41	1
Propionitrile	ND		20	3.7	ug/L			08/04/23 23:41	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/04/23 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 127					08/04/23 23:41	1
4-Bromofluorobenzene (Surr)	102		78 - 120					08/04/23 23:41	1
Toluene-d8 (Surr)	101		80 - 125					08/04/23 23:41	1
Dibromofluoromethane (Surr)	107		77 - 120					08/04/23 23:41	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: MW-116S-20230723

Lab Sample ID: 280-179478-13

Date Collected: 07/23/23 13:55

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/05/23 01:41	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/05/23 01:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/05/23 01:41	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/05/23 01:41	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/05/23 01:41	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/05/23 01:41	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/05/23 01:41	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/05/23 01:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/05/23 01:41	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/05/23 01:41	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/05/23 01:41	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/05/23 01:41	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/05/23 01:41	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/05/23 01:41	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/05/23 01:41	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/05/23 01:41	1
2-Hexanone	ND		5.0	1.7	ug/L			08/05/23 01:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/05/23 01:41	1
Acetone	ND		15	6.6	ug/L			08/05/23 01:41	1
Benzene	ND		1.0	0.31	ug/L			08/05/23 01:41	1
Bromoform	ND		2.0	1.2	ug/L			08/05/23 01:41	1
Bromomethane	ND		5.0	2.4	ug/L			08/05/23 01:41	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/05/23 01:41	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/05/23 01:41	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/05/23 01:41	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/05/23 01:41	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/05/23 01:41	1
Chloroethane	ND		4.0	1.4	ug/L			08/05/23 01:41	1
Chloroform	ND		1.0	0.36	ug/L			08/05/23 01:41	1
Chloromethane	ND		2.0	0.75	ug/L			08/05/23 01:41	1
cis-1,2-Dichloroethene	0.52	J	1.0	0.32	ug/L			08/05/23 01:41	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/05/23 01:41	1
Dibromomethane	ND		1.0	0.34	ug/L			08/05/23 01:41	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/05/23 01:41	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/05/23 01:41	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/05/23 01:41	1
Iodomethane	ND		5.0	2.6	ug/L			08/05/23 01:41	1
Isobutyl alcohol	ND		110	37	ug/L			08/05/23 01:41	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/05/23 01:41	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/05/23 01:41	1
o-Xylene	ND		1.0	0.33	ug/L			08/05/23 01:41	1
Styrene	ND		1.0	0.36	ug/L			08/05/23 01:41	1
Tetrachloroethene	2.0		1.0	0.40	ug/L			08/05/23 01:41	1
Toluene	ND		1.0	0.32	ug/L			08/05/23 01:41	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/05/23 01:41	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/05/23 01:41	1
Trichloroethene	14		1.0	0.30	ug/L			08/05/23 01:41	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/05/23 01:41	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/05/23 01:41	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: MW-116S-20230723

Lab Sample ID: 280-179478-13

Date Collected: 07/23/23 13:55

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/05/23 01:41	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/05/23 01:41	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/05/23 01:41	1
Acrolein	ND		20	4.9	ug/L			08/05/23 01:41	1
Acrylonitrile	ND		20	4.5	ug/L			08/05/23 01:41	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/05/23 01:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/05/23 01:41	1
Allyl chloride	ND		2.0	0.17	ug/L			08/05/23 01:41	1
Chloroprene	ND		3.0	1.2	ug/L			08/05/23 01:41	1
Acetonitrile	ND		30	9.6	ug/L			08/05/23 01:41	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/05/23 01:41	1
Methacrylonitrile	ND		15	5.3	ug/L			08/05/23 01:41	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/05/23 01:41	1
Propionitrile	ND		20	3.7	ug/L			08/05/23 01:41	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/05/23 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 127		08/05/23 01:41	1
4-Bromofluorobenzene (Surr)	103		78 - 120		08/05/23 01:41	1
Toluene-d8 (Surr)	99		80 - 125		08/05/23 01:41	1
Dibromofluoromethane (Surr)	104		77 - 120		08/05/23 01:41	1

Client Sample ID: PA-1-20230722

Lab Sample ID: 280-179478-14

Date Collected: 07/22/23 10:45

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 21:17	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 21:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 21:17	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 21:17	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 21:17	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 21:17	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 21:17	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 21:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 21:17	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 21:17	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 21:17	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 21:17	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 21:17	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 21:17	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 21:17	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 21:17	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 21:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 21:17	1
Acetone	ND		15	6.6	ug/L			08/03/23 21:17	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 21:17	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 21:17	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 21:17	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: PA-1-20230722

Lab Sample ID: 280-179478-14

Date Collected: 07/22/23 10:45

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 21:17	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 21:17	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 21:17	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 21:17	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 21:17	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 21:17	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 21:17	1
Chloromethane	ND	*1	2.0	0.75	ug/L			08/03/23 21:17	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 21:17	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 21:17	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 21:17	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 21:17	1
Dichlorodifluoromethane	ND	*1	3.0	0.96	ug/L			08/03/23 21:17	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 21:17	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 21:17	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 21:17	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 21:17	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 21:17	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 21:17	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 21:17	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 21:17	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 21:17	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 21:17	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 21:17	1
Trichloroethene	0.50	J	1.0	0.30	ug/L			08/03/23 21:17	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 21:17	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 21:17	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 21:17	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 21:17	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 21:17	1
Acrolein	ND		20	4.9	ug/L			08/03/23 21:17	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 21:17	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 21:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 21:17	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 21:17	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 21:17	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 21:17	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 21:17	1
Methacrylonitrile	ND	*+	15	5.3	ug/L			08/03/23 21:17	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 21:17	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 21:17	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 127					08/03/23 21:17	1
4-Bromofluorobenzene (Surr)	108		78 - 120					08/03/23 21:17	1
Toluene-d8 (Surr)	100		80 - 125					08/03/23 21:17	1
Dibromofluoromethane (Surr)	105		77 - 120					08/03/23 21:17	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: EB-03-20230722

Lab Sample ID: 280-179478-15

Date Collected: 07/22/23 13:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 11:23	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 11:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 11:23	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 11:23	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 11:23	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 11:23	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 11:23	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 11:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 11:23	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 11:23	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 11:23	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 11:23	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 11:23	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 11:23	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 11:23	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 11:23	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 11:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 11:23	1
Acetone	ND		15	6.6	ug/L			08/03/23 11:23	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 11:23	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 11:23	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 11:23	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 11:23	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 11:23	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 11:23	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 11:23	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 11:23	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 11:23	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 11:23	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 11:23	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 11:23	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 11:23	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 11:23	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 11:23	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 11:23	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 11:23	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 11:23	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 11:23	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 11:23	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 11:23	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 11:23	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 11:23	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 11:23	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 11:23	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 11:23	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 11:23	1
Trichloroethene	ND		1.0	0.30	ug/L			08/03/23 11:23	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 11:23	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 11:23	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: EB-03-20230722

Lab Sample ID: 280-179478-15

Date Collected: 07/22/23 13:25

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 11:23	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 11:23	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 11:23	1
Acrolein	ND		20	4.9	ug/L			08/03/23 11:23	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 11:23	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 11:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 11:23	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 11:23	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 11:23	1
Acetonitrile	ND	+	30	9.6	ug/L			08/03/23 11:23	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 11:23	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 11:23	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 11:23	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 11:23	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 11:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 127		08/03/23 11:23	1
4-Bromofluorobenzene (Surr)	106		78 - 120		08/03/23 11:23	1
Toluene-d8 (Surr)	104		80 - 125		08/03/23 11:23	1
Dibromofluoromethane (Surr)	98		77 - 120		08/03/23 11:23	1

Client Sample ID: PA-1-Q-20230722

Lab Sample ID: 280-179478-16

Date Collected: 07/22/23 10:45

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 21:37	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 21:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 21:37	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 21:37	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 21:37	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 21:37	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 21:37	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 21:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 21:37	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 21:37	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 21:37	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 21:37	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 21:37	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 21:37	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 21:37	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 21:37	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 21:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 21:37	1
Acetone	ND		15	6.6	ug/L			08/03/23 21:37	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 21:37	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 21:37	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 21:37	1

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Client Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: PA-1-Q-20230722

Lab Sample ID: 280-179478-16

Date Collected: 07/22/23 10:45

Matrix: Water

Date Received: 07/25/23 09:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 21:37	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 21:37	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 21:37	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 21:37	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 21:37	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 21:37	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 21:37	1
Chloromethane	ND	*1	2.0	0.75	ug/L			08/03/23 21:37	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 21:37	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 21:37	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 21:37	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 21:37	1
Dichlorodifluoromethane	ND	*1	3.0	0.96	ug/L			08/03/23 21:37	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 21:37	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 21:37	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 21:37	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 21:37	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 21:37	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 21:37	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 21:37	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 21:37	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 21:37	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 21:37	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 21:37	1
Trichloroethene	0.50	J	1.0	0.30	ug/L			08/03/23 21:37	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 21:37	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 21:37	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 21:37	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 21:37	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 21:37	1
Acrolein	ND		20	4.9	ug/L			08/03/23 21:37	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 21:37	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 21:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 21:37	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 21:37	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 21:37	1
Acetonitrile	ND	*+	30	9.6	ug/L			08/03/23 21:37	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 21:37	1
Methacrylonitrile	ND	*+	15	5.3	ug/L			08/03/23 21:37	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 21:37	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 21:37	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 127					08/03/23 21:37	1
4-Bromofluorobenzene (Surr)	107		78 - 120					08/03/23 21:37	1
Toluene-d8 (Surr)	101		80 - 125					08/03/23 21:37	1
Dibromofluoromethane (Surr)	105		77 - 120					08/03/23 21:37	1

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Default Detection Limits

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL	Units
1,1,1,2-Tetrachloroethane	1.0	0.58	ug/L
1,1,1-Trichloroethane	1.0	0.39	ug/L
1,1,2,2-Tetrachloroethane	1.0	0.21	ug/L
1,1,2-Trichloroethane	1.0	0.27	ug/L
1,1-Dichloroethane	1.0	0.22	ug/L
1,1-Dichloroethene	1.0	0.23	ug/L
1,1-Dichloropropene	1.0	0.42	ug/L
1,2,3-Trichloropropane	2.5	0.86	ug/L
1,2,4-Trichlorobenzene	1.0	0.58	ug/L
1,2-Dibromo-3-Chloropropane	5.0	1.8	ug/L
1,2-Dibromoethane	1.0	0.40	ug/L
1,2-Dichlorobenzene	1.0	0.37	ug/L
1,2-Dichloroethane	1.0	0.54	ug/L
1,2-Dichloropropane	1.0	0.52	ug/L
1,3-Dichlorobenzene	1.0	0.33	ug/L
1,3-Dichloropropane	1.0	0.38	ug/L
1,4-Dichlorobenzene	1.0	0.39	ug/L
2,2-Dichloropropane	1.0	0.38	ug/L
2-Butanone (MEK)	15	6.0	ug/L
2-Hexanone	5.0	1.7	ug/L
4-Methyl-2-pentanone (MIBK)	5.0	0.98	ug/L
Acetone	15	6.6	ug/L
Acetonitrile	30	9.6	ug/L
Acrolein	20	4.9	ug/L
Acrylonitrile	20	4.5	ug/L
Allyl chloride	2.0	0.17	ug/L
Benzene	1.0	0.31	ug/L
Bromoform	2.0	1.2	ug/L
Bromomethane	5.0	2.4	ug/L
Carbon disulfide	2.0	0.63	ug/L
Carbon tetrachloride	1.0	0.57	ug/L
Chlorobenzene	1.0	0.42	ug/L
Chlorobromomethane	1.0	0.40	ug/L
Chlorodibromomethane	2.0	0.62	ug/L
Chloroethane	4.0	1.4	ug/L
Chloroform	1.0	0.36	ug/L
Chloromethane	2.0	0.75	ug/L
Chloroprene	3.0	1.2	ug/L
cis-1,2-Dichloroethene	1.0	0.32	ug/L
cis-1,3-Dichloropropene	2.0	0.63	ug/L
Dibromomethane	1.0	0.34	ug/L
Dichlorobromomethane	1.0	0.39	ug/L
Dichlorodifluoromethane	3.0	0.96	ug/L
Ethyl methacrylate	3.0	0.86	ug/L
Ethylbenzene	1.0	0.30	ug/L
Iodomethane	5.0	2.6	ug/L
Isobutyl alcohol	110	37	ug/L
Methacrylonitrile	15	5.3	ug/L
Methyl methacrylate	4.0	1.1	ug/L
Methylene Chloride	2.0	0.94	ug/L
m-Xylene & p-Xylene	2.0	0.36	ug/L
o-Xylene	1.0	0.33	ug/L
Propionitrile	20	3.7	ug/L

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Default Detection Limits

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	RL	MDL	Units
Styrene	1.0	0.36	ug/L
Tetrachloroethene	1.0	0.40	ug/L
Toluene	1.0	0.32	ug/L
trans-1,2-Dichloroethene	1.0	0.37	ug/L
trans-1,3-Dichloropropene	2.0	0.65	ug/L
trans-1,4-Dichloro-2-butene	3.0	1.4	ug/L
Trichloroethene	1.0	0.30	ug/L
Trichlorofluoromethane	2.0	0.57	ug/L
Vinyl acetate	3.0	0.94	ug/L
Vinyl chloride	2.0	0.51	ug/L
Xylenes, Total	1.0	0.33	ug/L

Surrogate Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-127)	BFB (78-120)	TOL (80-125)	DBFM (77-120)
280-179478-1	RW-8284P-20230720	107	106	105	98
280-179478-2	RW-2076F-20230721	107	105	103	99
280-179478-3	RW-2172H-20230721	107	106	106	98
280-179478-4	RW-8048P-20230721	97	106	102	99
280-179478-4 MS	RW-8048P-20230721	106	103	100	99
280-179478-4 MSD	RW-8048P-20230721	105	102	100	101
280-179478-5	RW-8012P-20230721	107	105	103	98
280-179478-6	RW-7677P-20230721	106	105	104	98
280-179478-7	RW-2213F-20230721	106	105	103	99
280-179478-8	RW-7773P-20230721	108	105	106	97
280-179478-9	RW-7549P-20230721	107	103	102	97
280-179478-10	PA-4-100-110-20230722	108	104	104	99
280-179478-11	TB-02-20230723	109	102	101	104
280-179478-12	PA-8-77-87-20230723	112	102	101	107
280-179478-13	MW-116S-20230723	106	103	99	104
280-179478-14	PA-1-20230722	109	108	100	105
280-179478-15	EB-03-20230722	105	106	104	98
280-179478-16	PA-1-Q-20230722	110	107	101	105
LCS 280-621653/4	Lab Control Sample	107	105	102	99
LCS 280-621653/6	Lab Control Sample	106	104	102	101
LCS 280-621775/4	Lab Control Sample	106	103	102	101
LCS 280-621775/5	Lab Control Sample	105	107	101	102
LCS 280-621894/4	Lab Control Sample	108	101	100	100
LCS 280-621894/5	Lab Control Sample	108	109	98	102
LCS 280-621922/4	Lab Control Sample	103	102	100	99
LCS 280-621922/5	Lab Control Sample	102	102	100	98
LCSD 280-621653/5	Lab Control Sample Dup	109	105	102	100
LCSD 280-621653/7	Lab Control Sample Dup	105	108	103	100
LCSD 280-621775/6	Lab Control Sample Dup	106	103	100	100
LCSD 280-621775/7	Lab Control Sample Dup	106	108	100	100
LCSD 280-621894/6	Lab Control Sample Dup	107	100	99	99
LCSD 280-621894/7	Lab Control Sample Dup	107	109	98	101
LCSD 280-621922/6	Lab Control Sample Dup	103	101	102	99
LCSD 280-621922/7	Lab Control Sample Dup	105	103	99	101
MB 280-621653/9	Method Blank	105	105	104	98
MB 280-621775/9	Method Blank	105	104	102	102
MB 280-621894/9	Method Blank	113	103	100	105
MB 280-621922/9	Method Blank	104	104	101	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-621653/9

Matrix: Water

Analysis Batch: 621653

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 10:19	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 10:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 10:19	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 10:19	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 10:19	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 10:19	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 10:19	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 10:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 10:19	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 10:19	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 10:19	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 10:19	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 10:19	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 10:19	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 10:19	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 10:19	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 10:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 10:19	1
Acetone	ND		15	6.6	ug/L			08/03/23 10:19	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 10:19	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 10:19	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 10:19	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 10:19	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 10:19	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 10:19	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 10:19	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 10:19	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 10:19	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 10:19	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 10:19	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 10:19	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 10:19	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 10:19	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 10:19	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 10:19	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 10:19	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 10:19	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 10:19	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 10:19	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 10:19	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 10:19	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 10:19	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 10:19	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 10:19	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 10:19	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 10:19	1
Trichloroethene	ND		1.0	0.30	ug/L			08/03/23 10:19	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 10:19	1

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 280-621653/9

Matrix: Water

Analysis Batch: 621653

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 10:19	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 10:19	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 10:19	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 10:19	1
Acrolein	ND		20	4.9	ug/L			08/03/23 10:19	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 10:19	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 10:19	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 10:19	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 10:19	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 10:19	1
Acetonitrile	ND		30	9.6	ug/L			08/03/23 10:19	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 10:19	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 10:19	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 10:19	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 10:19	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 10:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 127		08/03/23 10:19	1
4-Bromofluorobenzene (Surr)	105		78 - 120		08/03/23 10:19	1
Toluene-d8 (Surr)	104		80 - 125		08/03/23 10:19	1
Dibromofluoromethane (Surr)	98		77 - 120		08/03/23 10:19	1

Lab Sample ID: LCS 280-621653/4

Matrix: Water

Analysis Batch: 621653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	46.5		ug/L		93	74 - 121
1,1,1-Trichloroethane	50.0	47.3		ug/L		95	62 - 132
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/L		97	72 - 122
1,1,2-Trichloroethane	50.0	46.2		ug/L		92	72 - 128
1,1-Dichloroethane	50.0	50.3		ug/L		101	66 - 130
1,1-Dichloroethene	50.0	46.0		ug/L		92	62 - 130
1,1-Dichloropropene	50.0	47.4		ug/L		95	64 - 133
1,2,3-Trichloropropane	50.0	45.5		ug/L		91	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	41.2		ug/L		82	58 - 122
1,2-Dichlorobenzene	50.0	46.4		ug/L		93	77 - 121
1,2-Dichloroethane	50.0	51.1		ug/L		102	61 - 130
1,2-Dichloropropane	50.0	49.4		ug/L		99	68 - 127
1,3-Dichlorobenzene	50.0	45.4		ug/L		91	76 - 121
1,3-Dichloropropane	50.0	50.7		ug/L		101	80 - 118
1,4-Dichlorobenzene	50.0	45.5		ug/L		91	76 - 119
2,2-Dichloropropane	50.0	48.4		ug/L		97	57 - 140
2-Hexanone	200	211		ug/L		106	58 - 134
4-Methyl-2-pentanone (MIBK)	200	210		ug/L		105	56 - 135
Acetone	200	211		ug/L		105	50 - 137
Benzene	50.0	49.0		ug/L		98	69 - 126

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621653/4

Matrix: Water

Analysis Batch: 621653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	50.0	42.0		ug/L		84	57 - 125
Bromomethane	50.0	45.7		ug/L		91	25 - 163
Carbon disulfide	50.0	49.8		ug/L		100	56 - 128
Carbon tetrachloride	50.0	45.3		ug/L		91	60 - 133
Chlorobenzene	50.0	47.7		ug/L		95	78 - 118
Chlorobromomethane	50.0	45.2		ug/L		90	71 - 130
Chlorodibromomethane	50.0	46.9		ug/L		94	71 - 122
Chloroethane	50.0	48.5		ug/L		97	52 - 144
Chloroform	50.0	47.3		ug/L		95	68 - 128
Chloromethane	50.0	47.9		ug/L		96	43 - 142
cis-1,2-Dichloroethene	50.0	45.5		ug/L		91	69 - 126
cis-1,3-Dichloropropene	50.0	51.3		ug/L		103	75 - 120
Dibromomethane	50.0	45.9		ug/L		92	68 - 129
Dichlorobromomethane	50.0	48.8		ug/L		98	67 - 126
Dichlorodifluoromethane	50.0	62.8		ug/L		126	26 - 152
Ethylbenzene	50.0	47.8		ug/L		96	76 - 121
Iodomethane	50.0	45.2		ug/L		90	37 - 145
Isobutyl alcohol	1250	1200		ug/L		96	46 - 132
Methylene Chloride	50.0	45.8		ug/L		92	64 - 128
m-Xylene & p-Xylene	50.0	49.9		ug/L		100	76 - 122
o-Xylene	50.0	47.3		ug/L		95	77 - 120
Styrene	50.0	50.4		ug/L		101	79 - 120
Tetrachloroethene	50.0	45.9		ug/L		92	72 - 127
Toluene	50.0	46.5		ug/L		93	68 - 127
trans-1,2-Dichloroethene	50.0	46.0		ug/L		92	66 - 129
trans-1,3-Dichloropropene	50.0	47.8		ug/L		96	66 - 127
Trichloroethene	50.0	44.2		ug/L		88	70 - 125
Trichlorofluoromethane	50.0	53.5		ug/L		107	57 - 144
Vinyl acetate	100	113		ug/L		113	61 - 139
Vinyl chloride	50.0	51.5		ug/L		103	53 - 141
Xylenes, Total	100	97.2		ug/L		97	77 - 120
2-Butanone (MEK)	200	203		ug/L		101	53 - 135
Acrolein	494	476		ug/L		96	10 - 207
Acrylonitrile	500	485		ug/L		97	65 - 133
1,2-Dibromoethane	50.0	47.6		ug/L		95	81 - 118
1,2,4-Trichlorobenzene	50.0	45.0		ug/L		90	73 - 124
Allyl chloride	50.0	51.6		ug/L		103	57 - 136
Ethyl methacrylate	50.0	48.8		ug/L		98	69 - 126
trans-1,4-Dichloro-2-butene	50.0	48.6		ug/L		97	44 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 127
4-Bromofluorobenzene (Surr)	105		78 - 120
Toluene-d8 (Surr)	102		80 - 125
Dibromofluoromethane (Surr)	99		77 - 120

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621653/6

Matrix: Water

Analysis Batch: 621653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroprene	25.0	32.0		ug/L		128	53 - 147
Acetonitrile	250	356	*+	ug/L		143	45 - 142
Methacrylonitrile	250	352		ug/L		141	47 - 142
Methyl methacrylate	50.0	52.7		ug/L		105	60 - 131
Propionitrile	250	310		ug/L		124	52 - 138

Surrogate	%Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	104		78 - 120
Toluene-d8 (Surr)	102		80 - 125
Dibromofluoromethane (Surr)	101		77 - 120

Lab Sample ID: LCSD 280-621653/5

Matrix: Water

Analysis Batch: 621653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	45.6		ug/L		91	74 - 121	2	20
1,1,1-Trichloroethane	50.0	47.7		ug/L		95	62 - 132	1	20
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L		98	72 - 122	1	20
1,1,2-Trichloroethane	50.0	46.7		ug/L		93	72 - 128	1	20
1,1-Dichloroethane	50.0	50.3		ug/L		101	66 - 130	0	20
1,1-Dichloroethene	50.0	46.6		ug/L		93	62 - 130	1	21
1,1-Dichloropropene	50.0	47.8		ug/L		96	64 - 133	1	20
1,2,3-Trichloropropane	50.0	47.4		ug/L		95	74 - 123	4	20
1,2-Dibromo-3-Chloropropane	50.0	42.1		ug/L		84	58 - 122	2	21
1,2-Dichlorobenzene	50.0	45.9		ug/L		92	77 - 121	1	20
1,2-Dichloroethane	50.0	50.9		ug/L		102	61 - 130	0	20
1,2-Dichloropropane	50.0	48.9		ug/L		98	68 - 127	1	20
1,3-Dichlorobenzene	50.0	45.2		ug/L		90	76 - 121	0	20
1,3-Dichloropropane	50.0	50.1		ug/L		100	80 - 118	1	20
1,4-Dichlorobenzene	50.0	44.1		ug/L		88	76 - 119	3	20
2,2-Dichloropropane	50.0	48.2		ug/L		96	57 - 140	1	22
2-Hexanone	200	220		ug/L		110	58 - 134	4	21
4-Methyl-2-pentanone (MIBK)	200	223		ug/L		112	56 - 135	6	20
Acetone	200	215		ug/L		107	50 - 137	2	21
Benzene	50.0	49.7		ug/L		99	69 - 126	1	20
Bromoform	50.0	42.7		ug/L		85	57 - 125	2	20
Bromomethane	50.0	51.4		ug/L		103	25 - 163	12	40
Carbon disulfide	50.0	50.7		ug/L		101	56 - 128	2	20
Carbon tetrachloride	50.0	46.3		ug/L		93	60 - 133	2	20
Chlorobenzene	50.0	46.4		ug/L		93	78 - 118	3	20
Chlorobromomethane	50.0	44.3		ug/L		89	71 - 130	2	20
Chlorodibromomethane	50.0	47.3		ug/L		95	71 - 122	1	20
Chloroethane	50.0	49.6		ug/L		99	52 - 144	2	30
Chloroform	50.0	48.7		ug/L		97	68 - 128	3	20
Chloromethane	50.0	49.5		ug/L		99	43 - 142	3	20
cis-1,2-Dichloroethene	50.0	44.4		ug/L		89	69 - 126	2	20

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621653/5

Matrix: Water

Analysis Batch: 621653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	50.0	50.8		ug/L		102	75 - 120	1	20
Dibromomethane	50.0	46.0		ug/L		92	68 - 129	0	20
Dichlorobromomethane	50.0	49.1		ug/L		98	67 - 126	0	20
Dichlorodifluoromethane	50.0	56.4		ug/L		113	26 - 152	11	21
Ethylbenzene	50.0	47.0		ug/L		94	76 - 121	2	20
Iodomethane	50.0	50.3		ug/L		101	37 - 145	11	38
Isobutyl alcohol	1250	1230		ug/L		98	46 - 132	2	30
Methylene Chloride	50.0	45.3		ug/L		91	64 - 128	1	20
m-Xylene & p-Xylene	50.0	49.0		ug/L		98	76 - 122	2	20
o-Xylene	50.0	46.2		ug/L		92	77 - 120	2	20
Styrene	50.0	49.3		ug/L		99	79 - 120	2	20
Tetrachloroethene	50.0	46.5		ug/L		93	72 - 127	1	20
Toluene	50.0	46.8		ug/L		94	68 - 127	1	20
trans-1,2-Dichloroethene	50.0	46.4		ug/L		93	66 - 129	1	20
trans-1,3-Dichloropropene	50.0	48.6		ug/L		97	66 - 127	2	20
Trichloroethene	50.0	44.8		ug/L		90	70 - 125	1	20
Trichlorofluoromethane	50.0	51.2		ug/L		102	57 - 144	4	28
Vinyl acetate	100	118		ug/L		118	61 - 139	4	23
Vinyl chloride	50.0	52.4		ug/L		105	53 - 141	2	25
Xylenes, Total	100	95.2		ug/L		95	77 - 120	2	20
2-Butanone (MEK)	200	204		ug/L		102	53 - 135	0	20
Acrolein	494	484		ug/L		98	10 - 207	1	23
Acrylonitrile	500	506		ug/L		101	65 - 133	4	20
1,2-Dibromoethane	50.0	47.7		ug/L		95	81 - 118	0	20
1,2,4-Trichlorobenzene	50.0	44.4		ug/L		89	73 - 124	1	20
Allyl chloride	50.0	51.2		ug/L		102	57 - 136	1	20
Ethyl methacrylate	50.0	50.3		ug/L		101	69 - 126	3	20
trans-1,4-Dichloro-2-butene	50.0	49.0		ug/L		98	44 - 131	1	24

Surrogate	%Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127
4-Bromofluorobenzene (Surr)	105		78 - 120
Toluene-d8 (Surr)	102		80 - 125
Dibromofluoromethane (Surr)	100		77 - 120

Lab Sample ID: LCSD 280-621653/7

Matrix: Water

Analysis Batch: 621653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroprene	25.0	29.2		ug/L		117	53 - 147	9	20
Acetonitrile	250	356		ug/L		142	45 - 142	0	20
Methacrylonitrile	250	332		ug/L		133	47 - 142	6	20
Methyl methacrylate	50.0	53.4		ug/L		107	60 - 131	1	20
Propionitrile	250	292		ug/L		117	52 - 138	6	20

Surrogate	%Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621653/7

Matrix: Water

Analysis Batch: 621653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		78 - 120
Toluene-d8 (Surr)	103		80 - 125
Dibromofluoromethane (Surr)	100		77 - 120

Lab Sample ID: MB 280-621775/9

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/03/23 18:17	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/03/23 18:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/23 18:17	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/03/23 18:17	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/03/23 18:17	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/03/23 18:17	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/03/23 18:17	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/03/23 18:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/03/23 18:17	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/03/23 18:17	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/03/23 18:17	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/03/23 18:17	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/03/23 18:17	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 18:17	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/03/23 18:17	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/03/23 18:17	1
2-Hexanone	ND		5.0	1.7	ug/L			08/03/23 18:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/03/23 18:17	1
Acetone	ND		15	6.6	ug/L			08/03/23 18:17	1
Benzene	ND		1.0	0.31	ug/L			08/03/23 18:17	1
Bromoform	ND		2.0	1.2	ug/L			08/03/23 18:17	1
Bromomethane	ND		5.0	2.4	ug/L			08/03/23 18:17	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/03/23 18:17	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/03/23 18:17	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/03/23 18:17	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/03/23 18:17	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/03/23 18:17	1
Chloroethane	ND		4.0	1.4	ug/L			08/03/23 18:17	1
Chloroform	ND		1.0	0.36	ug/L			08/03/23 18:17	1
Chloromethane	ND		2.0	0.75	ug/L			08/03/23 18:17	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/03/23 18:17	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/03/23 18:17	1
Dibromomethane	ND		1.0	0.34	ug/L			08/03/23 18:17	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/03/23 18:17	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/03/23 18:17	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/03/23 18:17	1
Iodomethane	ND		5.0	2.6	ug/L			08/03/23 18:17	1
Isobutyl alcohol	ND		110	37	ug/L			08/03/23 18:17	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/03/23 18:17	1

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 280-621775/9

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/03/23 18:17	1
o-Xylene	ND		1.0	0.33	ug/L			08/03/23 18:17	1
Styrene	ND		1.0	0.36	ug/L			08/03/23 18:17	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/03/23 18:17	1
Toluene	ND		1.0	0.32	ug/L			08/03/23 18:17	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/03/23 18:17	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/03/23 18:17	1
Trichloroethene	ND		1.0	0.30	ug/L			08/03/23 18:17	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/03/23 18:17	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/03/23 18:17	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/03/23 18:17	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/03/23 18:17	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/03/23 18:17	1
Acrolein	ND		20	4.9	ug/L			08/03/23 18:17	1
Acrylonitrile	ND		20	4.5	ug/L			08/03/23 18:17	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/03/23 18:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/03/23 18:17	1
Allyl chloride	ND		2.0	0.17	ug/L			08/03/23 18:17	1
Chloroprene	ND		3.0	1.2	ug/L			08/03/23 18:17	1
Acetonitrile	ND		30	9.6	ug/L			08/03/23 18:17	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/03/23 18:17	1
Methacrylonitrile	ND		15	5.3	ug/L			08/03/23 18:17	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/03/23 18:17	1
Propionitrile	ND		20	3.7	ug/L			08/03/23 18:17	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/03/23 18:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 127		08/03/23 18:17	1
4-Bromofluorobenzene (Surr)	104		78 - 120		08/03/23 18:17	1
Toluene-d8 (Surr)	102		80 - 125		08/03/23 18:17	1
Dibromofluoromethane (Surr)	102		77 - 120		08/03/23 18:17	1

Lab Sample ID: LCS 280-621775/4

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	52.1		ug/L		104	74 - 121
1,1,1-Trichloroethane	50.0	52.7		ug/L		105	62 - 132
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/L		104	72 - 122
1,1,2-Trichloroethane	50.0	51.9		ug/L		104	72 - 128
1,1-Dichloroethane	50.0	52.0		ug/L		104	66 - 130
1,1-Dichloroethene	50.0	49.5		ug/L		99	62 - 130
1,1-Dichloropropene	50.0	52.8		ug/L		106	64 - 133
1,2,3-Trichloropropane	50.0	51.6		ug/L		103	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	48.2		ug/L		96	58 - 122
1,2-Dichlorobenzene	50.0	49.8		ug/L		100	77 - 121
1,2-Dichloroethane	50.0	53.1		ug/L		106	61 - 130

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621775/4

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	50.0	53.0		ug/L		106	68 - 127
1,3-Dichlorobenzene	50.0	49.1		ug/L		98	76 - 121
1,3-Dichloropropane	50.0	54.7		ug/L		109	80 - 118
1,4-Dichlorobenzene	50.0	47.8		ug/L		96	76 - 119
2,2-Dichloropropane	50.0	46.2		ug/L		92	57 - 140
2-Hexanone	200	222		ug/L		111	58 - 134
4-Methyl-2-pentanone (MIBK)	200	214		ug/L		107	56 - 135
Acetone	200	210		ug/L		105	50 - 137
Benzene	50.0	51.6		ug/L		103	69 - 126
Bromoform	50.0	50.6		ug/L		101	57 - 125
Bromomethane	50.0	34.5		ug/L		69	25 - 163
Carbon disulfide	50.0	46.6		ug/L		93	56 - 128
Carbon tetrachloride	50.0	52.6		ug/L		105	60 - 133
Chlorobenzene	50.0	49.5		ug/L		99	78 - 118
Chlorobromomethane	50.0	52.4		ug/L		105	71 - 130
Chlorodibromomethane	50.0	51.2		ug/L		102	71 - 122
Chloroethane	50.0	47.6		ug/L		95	52 - 144
Chloroform	50.0	51.4		ug/L		103	68 - 128
Chloromethane	50.0	48.2		ug/L		96	43 - 142
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	69 - 126
cis-1,3-Dichloropropene	50.0	52.8		ug/L		106	75 - 120
Dibromomethane	50.0	50.8		ug/L		102	68 - 129
Dichlorobromomethane	50.0	53.0		ug/L		106	67 - 126
Dichlorodifluoromethane	50.0	53.5		ug/L		107	26 - 152
Ethylbenzene	50.0	51.6		ug/L		103	76 - 121
Iodomethane	50.0	43.7		ug/L		87	37 - 145
Isobutyl alcohol	1250	1260		ug/L		101	46 - 132
Methylene Chloride	50.0	48.8		ug/L		98	64 - 128
m-Xylene & p-Xylene	50.0	53.6		ug/L		107	76 - 122
o-Xylene	50.0	53.9		ug/L		108	77 - 120
Styrene	50.0	54.5		ug/L		109	79 - 120
Tetrachloroethene	50.0	50.6		ug/L		101	72 - 127
Toluene	50.0	51.1		ug/L		102	68 - 127
trans-1,2-Dichloroethene	50.0	48.9		ug/L		98	66 - 129
trans-1,3-Dichloropropene	50.0	51.9		ug/L		104	66 - 127
Trichloroethene	50.0	51.7		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	54.0		ug/L		108	57 - 144
Vinyl acetate	100	99.0		ug/L		99	61 - 139
Vinyl chloride	50.0	51.4		ug/L		103	53 - 141
Xylenes, Total	100	108		ug/L		108	77 - 120
2-Butanone (MEK)	200	228		ug/L		114	53 - 135
Acrolein	494	481		ug/L		97	10 - 207
Acrylonitrile	500	557		ug/L		111	65 - 133
1,2-Dibromoethane	50.0	53.1		ug/L		106	81 - 118
1,2,4-Trichlorobenzene	50.0	47.2		ug/L		94	73 - 124
Allyl chloride	50.0	48.1		ug/L		96	57 - 136
Ethyl methacrylate	50.0	52.7		ug/L		105	69 - 126
trans-1,4-Dichloro-2-butene	50.0	49.7		ug/L		99	44 - 131

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621775/4

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Toluene-d8 (Surr)	102		80 - 125
Dibromofluoromethane (Surr)	101		77 - 120

Lab Sample ID: LCS 280-621775/5

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroprene	25.0	31.1		ug/L		124	53 - 147
Acetonitrile	250	359	*+	ug/L		144	45 - 142
Methacrylonitrile	250	334		ug/L		133	47 - 142
Methyl methacrylate	50.0	45.8		ug/L		92	60 - 131
Propionitrile	250	274		ug/L		109	52 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
4-Bromofluorobenzene (Surr)	107		78 - 120
Toluene-d8 (Surr)	101		80 - 125
Dibromofluoromethane (Surr)	102		77 - 120

Lab Sample ID: LCSD 280-621775/6

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/L		101	74 - 121	3	20
1,1,1-Trichloroethane	50.0	48.5		ug/L		97	62 - 132	8	20
1,1,2,2-Tetrachloroethane	50.0	53.0		ug/L		106	72 - 122	2	20
1,1,2-Trichloroethane	50.0	52.5		ug/L		105	72 - 128	1	20
1,1-Dichloroethane	50.0	49.2		ug/L		98	66 - 130	6	20
1,1-Dichloroethene	50.0	44.0		ug/L		88	62 - 130	12	21
1,1-Dichloropropene	50.0	48.5		ug/L		97	64 - 133	8	20
1,2,3-Trichloropropane	50.0	51.6		ug/L		103	74 - 123	0	20
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/L		95	58 - 122	2	21
1,2-Dichlorobenzene	50.0	50.0		ug/L		100	77 - 121	0	20
1,2-Dichloroethane	50.0	53.5		ug/L		107	61 - 130	1	20
1,2-Dichloropropane	50.0	51.8		ug/L		104	68 - 127	2	20
1,3-Dichlorobenzene	50.0	48.7		ug/L		97	76 - 121	1	20
1,3-Dichloropropane	50.0	53.2		ug/L		106	80 - 118	3	20
1,4-Dichlorobenzene	50.0	47.8		ug/L		96	76 - 119	0	20
2,2-Dichloropropane	50.0	51.1		ug/L		102	57 - 140	10	22
2-Hexanone	200	224		ug/L		112	58 - 134	1	21
4-Methyl-2-pentanone (MIBK)	200	218		ug/L		109	56 - 135	2	20
Acetone	200	219		ug/L		109	50 - 137	4	21
Benzene	50.0	49.4		ug/L		99	69 - 126	4	20
Bromoform	50.0	51.2		ug/L		102	57 - 125	1	20

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621775/6

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	50.0	34.5		ug/L		69	25 - 163	0	40
Carbon disulfide	50.0	39.4		ug/L		79	56 - 128	17	20
Carbon tetrachloride	50.0	48.2		ug/L		96	60 - 133	9	20
Chlorobenzene	50.0	48.3		ug/L		97	78 - 118	2	20
Chlorobromomethane	50.0	51.7		ug/L		103	71 - 130	1	20
Chlorodibromomethane	50.0	51.9		ug/L		104	71 - 122	1	20
Chloroethane	50.0	40.4		ug/L		81	52 - 144	16	30
Chloroform	50.0	50.6		ug/L		101	68 - 128	1	20
Chloromethane	50.0	37.7	*1	ug/L		75	43 - 142	24	20
cis-1,2-Dichloroethene	50.0	48.9		ug/L		98	69 - 126	2	20
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	75 - 120	1	20
Dibromomethane	50.0	51.3		ug/L		103	68 - 129	1	20
Dichlorobromomethane	50.0	53.1		ug/L		106	67 - 126	0	20
Dichlorodifluoromethane	50.0	33.8	*1	ug/L		68	26 - 152	45	21
Ethylbenzene	50.0	49.2		ug/L		98	76 - 121	5	20
Iodomethane	50.0	42.2		ug/L		84	37 - 145	3	38
Isobutyl alcohol	1250	1320		ug/L		106	46 - 132	4	30
Methylene Chloride	50.0	48.4		ug/L		97	64 - 128	1	20
m-Xylene & p-Xylene	50.0	49.9		ug/L		100	76 - 122	7	20
o-Xylene	50.0	51.6		ug/L		103	77 - 120	4	20
Styrene	50.0	53.1		ug/L		106	79 - 120	3	20
Tetrachloroethene	50.0	47.6		ug/L		95	72 - 127	6	20
Toluene	50.0	49.1		ug/L		98	68 - 127	4	20
trans-1,2-Dichloroethene	50.0	45.7		ug/L		91	66 - 129	7	20
trans-1,3-Dichloropropene	50.0	54.8		ug/L		110	66 - 127	5	20
Trichloroethene	50.0	46.9		ug/L		94	70 - 125	10	20
Trichlorofluoromethane	50.0	43.7		ug/L		87	57 - 144	21	28
Vinyl acetate	100	114		ug/L		114	61 - 139	14	23
Vinyl chloride	50.0	40.0		ug/L		80	53 - 141	25	25
Xylenes, Total	100	102		ug/L		102	77 - 120	6	20
2-Butanone (MEK)	200	231		ug/L		116	53 - 135	2	20
Acrolein	494	534		ug/L		108	10 - 207	10	23
Acrylonitrile	500	557		ug/L		111	65 - 133	0	20
1,2-Dibromoethane	50.0	52.4		ug/L		105	81 - 118	1	20
1,2,4-Trichlorobenzene	50.0	48.4		ug/L		97	73 - 124	2	20
Allyl chloride	50.0	46.7		ug/L		93	57 - 136	3	20
Ethyl methacrylate	50.0	52.9		ug/L		106	69 - 126	0	20
trans-1,4-Dichloro-2-butene	50.0	54.3		ug/L		109	44 - 131	9	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	100		77 - 120

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621775/7

Matrix: Water

Analysis Batch: 621775

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroprene	25.0	33.1		ug/L		132	53 - 147	6	20
Acetonitrile	250	380	*+	ug/L		152	45 - 142	6	20
Methacrylonitrile	250	359	*+	ug/L		144	47 - 142	7	20
Methyl methacrylate	50.0	50.0		ug/L		100	60 - 131	9	20
Propionitrile	250	288		ug/L		115	52 - 138	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	108		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	100		77 - 120

Lab Sample ID: 280-179478-4 MS

Matrix: Water

Analysis Batch: 621775

Client Sample ID: RW-8048P-20230721

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		50.0	48.4		ug/L		97	74 - 121
1,1,1-Trichloroethane	ND		50.0	51.6		ug/L		103	62 - 132
1,1,2,2-Tetrachloroethane	ND		50.0	50.8		ug/L		102	72 - 122
1,1,2-Trichloroethane	ND		50.0	49.6		ug/L		99	72 - 128
1,1-Dichloroethane	ND		50.0	48.7		ug/L		97	66 - 130
1,1-Dichloroethene	ND		50.0	45.9		ug/L		92	62 - 130
1,1-Dichloropropene	ND		50.0	50.7		ug/L		101	64 - 133
1,2,3-Trichloropropane	ND		50.0	48.6		ug/L		97	74 - 123
1,2-Dibromo-3-Chloropropane	ND		50.0	42.5		ug/L		85	58 - 122
1,2-Dichlorobenzene	ND		50.0	48.5		ug/L		97	77 - 121
1,2-Dichloroethane	ND		50.0	51.0		ug/L		102	61 - 130
1,2-Dichloropropane	ND		50.0	49.7		ug/L		99	68 - 127
1,3-Dichlorobenzene	ND		50.0	47.3		ug/L		95	76 - 121
1,3-Dichloropropane	ND		50.0	50.7		ug/L		101	80 - 118
1,4-Dichlorobenzene	ND		50.0	46.2		ug/L		92	76 - 119
2,2-Dichloropropane	ND		50.0	49.3		ug/L		99	57 - 140
2-Hexanone	ND		200	203		ug/L		102	58 - 134
4-Methyl-2-pentanone (MIBK)	ND		200	200		ug/L		100	56 - 135
Acetone	ND		200	181		ug/L		91	50 - 137
Benzene	ND		50.0	48.6		ug/L		97	69 - 126
Bromoform	ND		50.0	48.1		ug/L		96	57 - 125
Bromomethane	ND		50.0	35.0		ug/L		70	25 - 163
Carbon disulfide	ND		50.0	40.9		ug/L		82	56 - 128
Carbon tetrachloride	ND		50.0	52.3		ug/L		105	60 - 133
Chlorobenzene	ND		50.0	46.8		ug/L		94	78 - 118
Chlorobromomethane	ND		50.0	49.4		ug/L		99	71 - 130
Chlorodibromomethane	ND		50.0	49.4		ug/L		99	71 - 122
Chloroethane	ND		50.0	40.7		ug/L		81	52 - 144
Chloroform	ND		50.0	50.1		ug/L		100	68 - 128
Chloromethane	ND	*1	50.0	36.9	*1	ug/L		74	43 - 142
cis-1,2-Dichloroethene	ND		50.0	47.4		ug/L		95	69 - 126

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 280-179478-4 MS

Matrix: Water

Analysis Batch: 621775

Client Sample ID: RW-8048P-20230721

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,3-Dichloropropene	ND		50.0	48.6		ug/L		97	75 - 120
Dibromomethane	ND		50.0	48.9		ug/L		98	68 - 129
Dichlorobromomethane	ND		50.0	51.0		ug/L		102	67 - 126
Dichlorodifluoromethane	ND	F2 *1	50.0	33.7	*1	ug/L		67	26 - 152
Ethylbenzene	ND		50.0	47.7		ug/L		95	76 - 121
Iodomethane	ND		50.0	38.3		ug/L		77	37 - 145
Isobutyl alcohol	ND		1250	1200		ug/L		96	46 - 132
Methylene Chloride	ND		50.0	45.5		ug/L		91	64 - 128
m-Xylene & p-Xylene	ND		50.0	48.2		ug/L		96	76 - 122
o-Xylene	ND		50.0	49.9		ug/L		100	77 - 120
Styrene	ND		50.0	51.1		ug/L		102	79 - 120
Tetrachloroethene	ND		50.0	48.6		ug/L		97	72 - 127
Toluene	ND		50.0	47.8		ug/L		96	68 - 127
trans-1,2-Dichloroethene	ND		50.0	46.0		ug/L		92	66 - 129
trans-1,3-Dichloropropene	ND		50.0	50.2		ug/L		100	66 - 127
Trichloroethene	3.9		50.0	49.8		ug/L		92	70 - 125
Trichlorofluoromethane	ND		50.0	43.6		ug/L		87	57 - 144
Vinyl acetate	ND		100	102		ug/L		102	61 - 139
Vinyl chloride	ND		50.0	39.6		ug/L		79	53 - 141
Xylenes, Total	ND		100	98.1		ug/L		98	77 - 120
2-Butanone (MEK)	ND		200	210		ug/L		105	53 - 135
Acrolein	ND		494	504		ug/L		102	10 - 207
Acrylonitrile	ND		500	515		ug/L		103	65 - 133
1,2-Dibromoethane	ND		50.0	49.0		ug/L		98	81 - 118
1,2,4-Trichlorobenzene	ND		50.0	42.1		ug/L		84	73 - 124
Allyl chloride	ND		50.0	45.5		ug/L		91	57 - 136
Ethyl methacrylate	ND		50.0	47.9		ug/L		96	69 - 126
trans-1,4-Dichloro-2-butene	ND		50.0	50.1		ug/L		100	44 - 131

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	99		77 - 120

Lab Sample ID: 280-179478-4 MSD

Matrix: Water

Analysis Batch: 621775

Client Sample ID: RW-8048P-20230721

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	47.9		ug/L		96	74 - 121	1	20
1,1,1-Trichloroethane	ND		50.0	47.6		ug/L		95	62 - 132	8	20
1,1,2,2-Tetrachloroethane	ND		50.0	47.7		ug/L		95	72 - 122	6	20
1,1,2-Trichloroethane	ND		50.0	48.3		ug/L		97	72 - 128	3	20
1,1-Dichloroethane	ND		50.0	47.3		ug/L		95	66 - 130	3	20
1,1-Dichloroethene	ND		50.0	41.9		ug/L		84	62 - 130	9	21
1,1-Dichloropropene	ND		50.0	47.2		ug/L		94	64 - 133	7	20
1,2,3-Trichloropropane	ND		50.0	46.4		ug/L		93	74 - 123	5	20

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 280-179478-4 MSD

Matrix: Water

Analysis Batch: 621775

Client Sample ID: RW-8048P-20230721

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	ND		50.0	39.9		ug/L		80	58 - 122	6	21
1,2-Dichlorobenzene	ND		50.0	46.9		ug/L		94	77 - 121	3	20
1,2-Dichloroethane	ND		50.0	50.2		ug/L		100	61 - 130	2	20
1,2-Dichloropropane	ND		50.0	49.5		ug/L		99	68 - 127	0	20
1,3-Dichlorobenzene	ND		50.0	45.8		ug/L		92	76 - 121	3	20
1,3-Dichloropropane	ND		50.0	49.1		ug/L		98	80 - 118	3	20
1,4-Dichlorobenzene	ND		50.0	45.1		ug/L		90	76 - 119	2	20
2,2-Dichloropropane	ND		50.0	45.5		ug/L		91	57 - 140	8	22
2-Hexanone	ND		200	183		ug/L		92	58 - 134	10	21
4-Methyl-2-pentanone (MIBK)	ND		200	182		ug/L		91	56 - 135	9	20
Acetone	ND		200	164		ug/L		82	50 - 137	10	21
Benzene	ND		50.0	46.7		ug/L		93	69 - 126	4	20
Bromoform	ND		50.0	45.9		ug/L		92	57 - 125	5	20
Bromomethane	ND		50.0	39.0		ug/L		78	25 - 163	11	40
Carbon disulfide	ND		50.0	38.2		ug/L		76	56 - 128	7	20
Carbon tetrachloride	ND		50.0	47.4		ug/L		95	60 - 133	10	20
Chlorobenzene	ND		50.0	46.0		ug/L		92	78 - 118	2	20
Chlorobromomethane	ND		50.0	49.6		ug/L		99	71 - 130	0	20
Chlorodibromomethane	ND		50.0	48.0		ug/L		96	71 - 122	3	20
Chloroethane	ND		50.0	46.4		ug/L		93	52 - 144	13	30
Chloroform	ND		50.0	48.6		ug/L		97	68 - 128	3	20
Chloromethane	ND	*1	50.0	42.6	*1	ug/L		85	43 - 142	14	20
cis-1,2-Dichloroethene	ND		50.0	46.6		ug/L		93	69 - 126	2	20
cis-1,3-Dichloropropene	ND		50.0	48.1		ug/L		96	75 - 120	1	20
Dibromomethane	ND		50.0	48.2		ug/L		96	68 - 129	1	20
Dichlorobromomethane	ND		50.0	49.6		ug/L		99	67 - 126	3	20
Dichlorodifluoromethane	ND	F2 *1	50.0	42.8	F2 *1	ug/L		86	26 - 152	24	21
Ethylbenzene	ND		50.0	46.8		ug/L		94	76 - 121	2	20
Iodomethane	ND		50.0	42.3		ug/L		85	37 - 145	10	38
Isobutyl alcohol	ND		1250	1070		ug/L		86	46 - 132	11	30
Methylene Chloride	ND		50.0	45.0		ug/L		90	64 - 128	1	20
m-Xylene & p-Xylene	ND		50.0	47.3		ug/L		95	76 - 122	2	20
o-Xylene	ND		50.0	48.6		ug/L		97	77 - 120	3	20
Styrene	ND		50.0	50.1		ug/L		100	79 - 120	2	20
Tetrachloroethene	ND		50.0	46.1		ug/L		92	72 - 127	5	20
Toluene	ND		50.0	45.7		ug/L		91	68 - 127	5	20
trans-1,2-Dichloroethene	ND		50.0	43.7		ug/L		87	66 - 129	5	20
trans-1,3-Dichloropropene	ND		50.0	49.6		ug/L		99	66 - 127	1	20
Trichloroethene	3.9		50.0	47.7		ug/L		88	70 - 125	4	20
Trichlorofluoromethane	ND		50.0	53.4		ug/L		107	57 - 144	20	28
Vinyl acetate	ND		100	97.8		ug/L		98	61 - 139	4	23
Vinyl chloride	ND		50.0	48.8		ug/L		98	53 - 141	21	25
Xylenes, Total	ND		100	95.9		ug/L		96	77 - 120	2	20
2-Butanone (MEK)	ND		200	186		ug/L		93	53 - 135	12	20
Acrolein	ND		494	467		ug/L		95	10 - 207	8	23
Acrylonitrile	ND		500	481		ug/L		96	65 - 133	7	20
1,2-Dibromoethane	ND		50.0	48.3		ug/L		97	81 - 118	1	20
1,2,4-Trichlorobenzene	ND		50.0	42.3		ug/L		85	73 - 124	1	20
Allyl chloride	ND		50.0	44.1		ug/L		88	57 - 136	3	20

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 280-179478-4 MSD

Matrix: Water

Analysis Batch: 621775

Client Sample ID: RW-8048P-20230721

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethyl methacrylate	ND		50.0	45.3		ug/L		91	69 - 126	6	20
trans-1,4-Dichloro-2-butene	ND		50.0	44.6		ug/L		89	44 - 131	12	24
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	105		70 - 127								
4-Bromofluorobenzene (Surr)	102		78 - 120								
Toluene-d8 (Surr)	100		80 - 125								
Dibromofluoromethane (Surr)	101		77 - 120								

Lab Sample ID: MB 280-621894/9

Matrix: Water

Analysis Batch: 621894

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/04/23 18:03	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/04/23 18:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/04/23 18:03	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/04/23 18:03	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/04/23 18:03	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/04/23 18:03	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/04/23 18:03	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/04/23 18:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/04/23 18:03	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/04/23 18:03	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/04/23 18:03	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/04/23 18:03	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/04/23 18:03	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/04/23 18:03	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/04/23 18:03	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/04/23 18:03	1
2-Hexanone	ND		5.0	1.7	ug/L			08/04/23 18:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/04/23 18:03	1
Acetone	ND		15	6.6	ug/L			08/04/23 18:03	1
Benzene	ND		1.0	0.31	ug/L			08/04/23 18:03	1
Bromoform	ND		2.0	1.2	ug/L			08/04/23 18:03	1
Bromomethane	ND		5.0	2.4	ug/L			08/04/23 18:03	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/04/23 18:03	1
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/04/23 18:03	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/04/23 18:03	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/04/23 18:03	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/04/23 18:03	1
Chloroethane	ND		4.0	1.4	ug/L			08/04/23 18:03	1
Chloroform	ND		1.0	0.36	ug/L			08/04/23 18:03	1
Chloromethane	ND		2.0	0.75	ug/L			08/04/23 18:03	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/04/23 18:03	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/04/23 18:03	1
Dibromomethane	ND		1.0	0.34	ug/L			08/04/23 18:03	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/04/23 18:03	1

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 280-621894/9

Matrix: Water

Analysis Batch: 621894

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/04/23 18:03	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/04/23 18:03	1
Iodomethane	ND		5.0	2.6	ug/L			08/04/23 18:03	1
Isobutyl alcohol	ND		110	37	ug/L			08/04/23 18:03	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/04/23 18:03	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/04/23 18:03	1
o-Xylene	ND		1.0	0.33	ug/L			08/04/23 18:03	1
Styrene	ND		1.0	0.36	ug/L			08/04/23 18:03	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/04/23 18:03	1
Toluene	ND		1.0	0.32	ug/L			08/04/23 18:03	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/04/23 18:03	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/04/23 18:03	1
Trichloroethene	ND		1.0	0.30	ug/L			08/04/23 18:03	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/04/23 18:03	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/04/23 18:03	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/04/23 18:03	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/04/23 18:03	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/04/23 18:03	1
Acrolein	ND		20	4.9	ug/L			08/04/23 18:03	1
Acrylonitrile	ND		20	4.5	ug/L			08/04/23 18:03	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/04/23 18:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/04/23 18:03	1
Allyl chloride	ND		2.0	0.17	ug/L			08/04/23 18:03	1
Chloroprene	ND		3.0	1.2	ug/L			08/04/23 18:03	1
Acetonitrile	ND		30	9.6	ug/L			08/04/23 18:03	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/04/23 18:03	1
Methacrylonitrile	ND		15	5.3	ug/L			08/04/23 18:03	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/04/23 18:03	1
Propionitrile	ND		20	3.7	ug/L			08/04/23 18:03	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/04/23 18:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 127		08/04/23 18:03	1
4-Bromofluorobenzene (Surr)	103		78 - 120		08/04/23 18:03	1
Toluene-d8 (Surr)	100		80 - 125		08/04/23 18:03	1
Dibromofluoromethane (Surr)	105		77 - 120		08/04/23 18:03	1

Lab Sample ID: LCS 280-621894/4

Matrix: Water

Analysis Batch: 621894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/L		104	74 - 121
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	62 - 132
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/L		102	72 - 122
1,1,2-Trichloroethane	50.0	52.3		ug/L		105	72 - 128
1,1-Dichloroethane	50.0	51.2		ug/L		102	66 - 130
1,1-Dichloroethene	50.0	49.6		ug/L		99	62 - 130

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621894/4

Matrix: Water

Analysis Batch: 621894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloropropene	50.0	52.2		ug/L		104	64 - 133
1,2,3-Trichloropropane	50.0	53.1		ug/L		106	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	49.2		ug/L		98	58 - 122
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	77 - 121
1,2-Dichloroethane	50.0	53.8		ug/L		108	61 - 130
1,2-Dichloropropane	50.0	52.9		ug/L		106	68 - 127
1,3-Dichlorobenzene	50.0	49.9		ug/L		100	76 - 121
1,3-Dichloropropane	50.0	53.4		ug/L		107	80 - 118
1,4-Dichlorobenzene	50.0	48.4		ug/L		97	76 - 119
2,2-Dichloropropane	50.0	46.9		ug/L		94	57 - 140
2-Hexanone	200	216		ug/L		108	58 - 134
4-Methyl-2-pentanone (MIBK)	200	217		ug/L		108	56 - 135
Acetone	200	210		ug/L		105	50 - 137
Benzene	50.0	50.6		ug/L		101	69 - 126
Bromoform	50.0	50.7		ug/L		101	57 - 125
Bromomethane	50.0	36.3		ug/L		73	25 - 163
Carbon disulfide	50.0	47.0		ug/L		94	56 - 128
Carbon tetrachloride	50.0	53.1		ug/L		106	60 - 133
Chlorobenzene	50.0	49.1		ug/L		98	78 - 118
Chlorobromomethane	50.0	51.5		ug/L		103	71 - 130
Chlorodibromomethane	50.0	50.8		ug/L		102	71 - 122
Chloroethane	50.0	46.5		ug/L		93	52 - 144
Chloroform	50.0	52.1		ug/L		104	68 - 128
Chloromethane	50.0	46.3		ug/L		93	43 - 142
cis-1,2-Dichloroethene	50.0	50.1		ug/L		100	69 - 126
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	75 - 120
Dibromomethane	50.0	50.7		ug/L		101	68 - 129
Dichlorobromomethane	50.0	53.3		ug/L		107	67 - 126
Dichlorodifluoromethane	50.0	49.6		ug/L		99	26 - 152
Ethylbenzene	50.0	50.7		ug/L		101	76 - 121
Iodomethane	50.0	39.0		ug/L		78	37 - 145
Isobutyl alcohol	1250	1310		ug/L		105	46 - 132
Methylene Chloride	50.0	48.2		ug/L		96	64 - 128
m-Xylene & p-Xylene	50.0	50.7		ug/L		101	76 - 122
o-Xylene	50.0	52.8		ug/L		106	77 - 120
Styrene	50.0	54.0		ug/L		108	79 - 120
Tetrachloroethene	50.0	50.0		ug/L		100	72 - 127
Toluene	50.0	50.1		ug/L		100	68 - 127
trans-1,2-Dichloroethene	50.0	48.3		ug/L		97	66 - 129
trans-1,3-Dichloropropene	50.0	52.8		ug/L		106	66 - 127
Trichloroethene	50.0	50.3		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	48.5		ug/L		97	57 - 144
Vinyl acetate	100	85.1		ug/L		85	61 - 139
Vinyl chloride	50.0	48.2		ug/L		96	53 - 141
Xylenes, Total	100	104		ug/L		104	77 - 120
2-Butanone (MEK)	200	226		ug/L		113	53 - 135
Acrolein	494	443		ug/L		90	10 - 207
Acrylonitrile	500	556		ug/L		111	65 - 133
1,2-Dibromoethane	50.0	51.2		ug/L		102	81 - 118

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621894/4

Matrix: Water

Analysis Batch: 621894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	50.0	47.4		ug/L		95	73 - 124
Allyl chloride	50.0	47.3		ug/L		95	57 - 136
Ethyl methacrylate	50.0	50.4		ug/L		101	69 - 126
trans-1,4-Dichloro-2-butene	50.0	52.5		ug/L		105	44 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 127
4-Bromofluorobenzene (Surr)	101		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	100		77 - 120

Lab Sample ID: LCS 280-621894/5

Matrix: Water

Analysis Batch: 621894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroprene	25.0	29.6		ug/L		119	53 - 147
Acetonitrile	250	348		ug/L		139	45 - 142
Methacrylonitrile	250	333		ug/L		133	47 - 142
Methyl methacrylate	50.0	43.1		ug/L		86	60 - 131
Propionitrile	250	268		ug/L		107	52 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 127
4-Bromofluorobenzene (Surr)	109		78 - 120
Toluene-d8 (Surr)	98		80 - 125
Dibromofluoromethane (Surr)	102		77 - 120

Lab Sample ID: LCSD 280-621894/6

Matrix: Water

Analysis Batch: 621894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	53.6		ug/L		107	74 - 121	3	20
1,1,1-Trichloroethane	50.0	54.8		ug/L		110	62 - 132	4	20
1,1,2,2-Tetrachloroethane	50.0	57.0		ug/L		114	72 - 122	12	20
1,1,2-Trichloroethane	50.0	54.7		ug/L		109	72 - 128	4	20
1,1-Dichloroethane	50.0	52.0		ug/L		104	66 - 130	2	20
1,1-Dichloroethene	50.0	51.5		ug/L		103	62 - 130	4	21
1,1-Dichloropropene	50.0	55.0		ug/L		110	64 - 133	5	20
1,2,3-Trichloropropane	50.0	55.0		ug/L		110	74 - 123	3	20
1,2-Dibromo-3-Chloropropane	50.0	52.0		ug/L		104	58 - 122	5	21
1,2-Dichlorobenzene	50.0	52.3		ug/L		105	77 - 121	4	20
1,2-Dichloroethane	50.0	54.4		ug/L		109	61 - 130	1	20
1,2-Dichloropropane	50.0	54.0		ug/L		108	68 - 127	2	20
1,3-Dichlorobenzene	50.0	51.4		ug/L		103	76 - 121	3	20
1,3-Dichloropropane	50.0	54.8		ug/L		110	80 - 118	3	20
1,4-Dichlorobenzene	50.0	49.9		ug/L		100	76 - 119	3	20

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621894/6

Matrix: Water

Analysis Batch: 621894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,2-Dichloropropane	50.0	57.2		ug/L		114	57 - 140	20	22
2-Hexanone	200	243		ug/L		121	58 - 134	12	21
4-Methyl-2-pentanone (MIBK)	200	232		ug/L		116	56 - 135	7	20
Acetone	200	217		ug/L		108	50 - 137	3	21
Benzene	50.0	52.0		ug/L		104	69 - 126	3	20
Bromoform	50.0	55.5		ug/L		111	57 - 125	9	20
Bromomethane	50.0	36.5		ug/L		73	25 - 163	0	40
Carbon disulfide	50.0	49.6		ug/L		99	56 - 128	5	20
Carbon tetrachloride	50.0	56.1		ug/L		112	60 - 133	5	20
Chlorobenzene	50.0	51.2		ug/L		102	78 - 118	4	20
Chlorobromomethane	50.0	52.7		ug/L		105	71 - 130	2	20
Chlorodibromomethane	50.0	53.9		ug/L		108	71 - 122	6	20
Chloroethane	50.0	41.4		ug/L		83	52 - 144	12	30
Chloroform	50.0	52.0		ug/L		104	68 - 128	0	20
Chloromethane	50.0	36.1	*1	ug/L		72	43 - 142	25	20
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	69 - 126	0	20
cis-1,3-Dichloropropene	50.0	53.7		ug/L		107	75 - 120	5	20
Dibromomethane	50.0	53.7		ug/L		107	68 - 129	6	20
Dichlorobromomethane	50.0	54.0		ug/L		108	67 - 126	1	20
Dichlorodifluoromethane	50.0	37.1	*1	ug/L		74	26 - 152	29	21
Ethylbenzene	50.0	52.4		ug/L		105	76 - 121	3	20
Iodomethane	50.0	42.4		ug/L		85	37 - 145	8	38
Isobutyl alcohol	1250	1430		ug/L		115	46 - 132	9	30
Methylene Chloride	50.0	48.7		ug/L		97	64 - 128	1	20
m-Xylene & p-Xylene	50.0	52.7		ug/L		105	76 - 122	4	20
o-Xylene	50.0	54.8		ug/L		110	77 - 120	4	20
Styrene	50.0	56.4		ug/L		113	79 - 120	4	20
Tetrachloroethene	50.0	53.1		ug/L		106	72 - 127	6	20
Toluene	50.0	52.1		ug/L		104	68 - 127	4	20
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	66 - 129	5	20
trans-1,3-Dichloropropene	50.0	57.1		ug/L		114	66 - 127	8	20
Trichloroethene	50.0	50.4		ug/L		101	70 - 125	0	20
Trichlorofluoromethane	50.0	48.1		ug/L		96	57 - 144	1	28
Vinyl acetate	100	118	*1	ug/L		118	61 - 139	33	23
Vinyl chloride	50.0	42.3		ug/L		85	53 - 141	13	25
Xylenes, Total	100	108		ug/L		108	77 - 120	4	20
2-Butanone (MEK)	200	234		ug/L		117	53 - 135	4	20
Acrolein	494	517		ug/L		105	10 - 207	15	23
Acrylonitrile	500	558		ug/L		112	65 - 133	0	20
1,2-Dibromoethane	50.0	53.4		ug/L		107	81 - 118	4	20
1,2,4-Trichlorobenzene	50.0	50.8		ug/L		102	73 - 124	7	20
Allyl chloride	50.0	51.6		ug/L		103	57 - 136	9	20
Ethyl methacrylate	50.0	54.4		ug/L		109	69 - 126	8	20
trans-1,4-Dichloro-2-butene	50.0	58.9		ug/L		118	44 - 131	12	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 127
4-Bromofluorobenzene (Surr)	100		78 - 120

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621894/6

Matrix: Water

Analysis Batch: 621894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 125
Dibromofluoromethane (Surr)	99		77 - 120

Lab Sample ID: LCSD 280-621894/7

Matrix: Water

Analysis Batch: 621894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroprene	25.0	32.0		ug/L		128	53 - 147	8	20
Acetonitrile	250	334		ug/L		134	45 - 142	4	20
Methacrylonitrile	250	327		ug/L		131	47 - 142	2	20
Methyl methacrylate	50.0	43.6		ug/L		87	60 - 131	1	20
Propionitrile	250	256		ug/L		102	52 - 138	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 127
4-Bromofluorobenzene (Surr)	109		78 - 120
Toluene-d8 (Surr)	98		80 - 125
Dibromofluoromethane (Surr)	101		77 - 120

Lab Sample ID: MB 280-621922/9

Matrix: Water

Analysis Batch: 621922

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/04/23 20:04	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/04/23 20:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/04/23 20:04	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/04/23 20:04	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/04/23 20:04	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/04/23 20:04	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/04/23 20:04	1
1,2,3-Trichloropropane	ND		2.5	0.86	ug/L			08/04/23 20:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	1.8	ug/L			08/04/23 20:04	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/04/23 20:04	1
1,2-Dichloroethane	ND		1.0	0.54	ug/L			08/04/23 20:04	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/04/23 20:04	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/04/23 20:04	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/04/23 20:04	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/04/23 20:04	1
2,2-Dichloropropane	ND		1.0	0.38	ug/L			08/04/23 20:04	1
2-Hexanone	ND		5.0	1.7	ug/L			08/04/23 20:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/04/23 20:04	1
Acetone	ND		15	6.6	ug/L			08/04/23 20:04	1
Benzene	ND		1.0	0.31	ug/L			08/04/23 20:04	1
Bromoform	ND		2.0	1.2	ug/L			08/04/23 20:04	1
Bromomethane	ND		5.0	2.4	ug/L			08/04/23 20:04	1
Carbon disulfide	ND		2.0	0.63	ug/L			08/04/23 20:04	1

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 280-621922/9

Matrix: Water

Analysis Batch: 621922

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.57	ug/L			08/04/23 20:04	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/04/23 20:04	1
Chlorobromomethane	ND		1.0	0.40	ug/L			08/04/23 20:04	1
Chlorodibromomethane	ND		2.0	0.62	ug/L			08/04/23 20:04	1
Chloroethane	ND		4.0	1.4	ug/L			08/04/23 20:04	1
Chloroform	ND		1.0	0.36	ug/L			08/04/23 20:04	1
Chloromethane	ND		2.0	0.75	ug/L			08/04/23 20:04	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/04/23 20:04	1
cis-1,3-Dichloropropene	ND		2.0	0.63	ug/L			08/04/23 20:04	1
Dibromomethane	ND		1.0	0.34	ug/L			08/04/23 20:04	1
Dichlorobromomethane	ND		1.0	0.39	ug/L			08/04/23 20:04	1
Dichlorodifluoromethane	ND		3.0	0.96	ug/L			08/04/23 20:04	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/04/23 20:04	1
Iodomethane	ND		5.0	2.6	ug/L			08/04/23 20:04	1
Isobutyl alcohol	ND		110	37	ug/L			08/04/23 20:04	1
Methylene Chloride	ND		2.0	0.94	ug/L			08/04/23 20:04	1
m-Xylene & p-Xylene	ND		2.0	0.36	ug/L			08/04/23 20:04	1
o-Xylene	ND		1.0	0.33	ug/L			08/04/23 20:04	1
Styrene	ND		1.0	0.36	ug/L			08/04/23 20:04	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/04/23 20:04	1
Toluene	ND		1.0	0.32	ug/L			08/04/23 20:04	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/04/23 20:04	1
trans-1,3-Dichloropropene	ND		2.0	0.65	ug/L			08/04/23 20:04	1
Trichloroethene	ND		1.0	0.30	ug/L			08/04/23 20:04	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/04/23 20:04	1
Vinyl acetate	ND		3.0	0.94	ug/L			08/04/23 20:04	1
Vinyl chloride	ND		2.0	0.51	ug/L			08/04/23 20:04	1
Xylenes, Total	ND		1.0	0.33	ug/L			08/04/23 20:04	1
2-Butanone (MEK)	ND		15	6.0	ug/L			08/04/23 20:04	1
Acrolein	ND		20	4.9	ug/L			08/04/23 20:04	1
Acrylonitrile	ND		20	4.5	ug/L			08/04/23 20:04	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/04/23 20:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.58	ug/L			08/04/23 20:04	1
Allyl chloride	ND		2.0	0.17	ug/L			08/04/23 20:04	1
Chloroprene	ND		3.0	1.2	ug/L			08/04/23 20:04	1
Acetonitrile	ND		30	9.6	ug/L			08/04/23 20:04	1
Ethyl methacrylate	ND		3.0	0.86	ug/L			08/04/23 20:04	1
Methacrylonitrile	ND		15	5.3	ug/L			08/04/23 20:04	1
Methyl methacrylate	ND		4.0	1.1	ug/L			08/04/23 20:04	1
Propionitrile	ND		20	3.7	ug/L			08/04/23 20:04	1
trans-1,4-Dichloro-2-butene	ND		3.0	1.4	ug/L			08/04/23 20:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 127		08/04/23 20:04	1
4-Bromofluorobenzene (Surr)	104		78 - 120		08/04/23 20:04	1
Toluene-d8 (Surr)	101		80 - 125		08/04/23 20:04	1
Dibromofluoromethane (Surr)	101		77 - 120		08/04/23 20:04	1

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621922/4

Matrix: Water

Analysis Batch: 621922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	44.1		ug/L		88	74 - 121
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	62 - 132
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	72 - 122
1,1,2-Trichloroethane	50.0	48.1		ug/L		96	72 - 128
1,1-Dichloroethane	50.0	48.3		ug/L		97	66 - 130
1,1-Dichloroethene	50.0	44.8		ug/L		90	62 - 130
1,1-Dichloropropene	50.0	47.1		ug/L		94	64 - 133
1,2,3-Trichloropropane	50.0	44.0		ug/L		88	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	41.9		ug/L		84	58 - 122
1,2-Dichlorobenzene	50.0	45.2		ug/L		90	77 - 121
1,2-Dichloroethane	50.0	46.7		ug/L		93	61 - 130
1,2-Dichloropropane	50.0	45.6		ug/L		91	68 - 127
1,3-Dichlorobenzene	50.0	48.6		ug/L		97	76 - 121
1,3-Dichloropropane	50.0	48.8		ug/L		98	80 - 118
1,4-Dichlorobenzene	50.0	45.3		ug/L		91	76 - 119
2,2-Dichloropropane	50.0	50.8		ug/L		102	57 - 140
2-Hexanone	200	191		ug/L		96	58 - 134
4-Methyl-2-pentanone (MIBK)	200	199		ug/L		100	56 - 135
Acetone	200	219		ug/L		109	50 - 137
Benzene	50.0	45.7		ug/L		91	69 - 126
Bromoform	50.0	40.8		ug/L		82	57 - 125
Bromomethane	50.0	39.7		ug/L		79	25 - 163
Carbon disulfide	50.0	44.0		ug/L		88	56 - 128
Carbon tetrachloride	50.0	44.7		ug/L		89	60 - 133
Chlorobenzene	50.0	45.1		ug/L		90	78 - 118
Chlorobromomethane	50.0	49.9		ug/L		100	71 - 130
Chlorodibromomethane	50.0	43.7		ug/L		87	71 - 122
Chloroethane	50.0	49.3		ug/L		99	52 - 144
Chloroform	50.0	50.6		ug/L		101	68 - 128
Chloromethane	50.0	48.2		ug/L		96	43 - 142
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	69 - 126
cis-1,3-Dichloropropene	50.0	45.3		ug/L		91	75 - 120
Dibromomethane	50.0	47.2		ug/L		94	68 - 129
Dichlorobromomethane	50.0	46.0		ug/L		92	67 - 126
Dichlorodifluoromethane	50.0	47.7		ug/L		95	26 - 152
Ethylbenzene	50.0	45.1		ug/L		90	76 - 121
Iodomethane	50.0	43.7		ug/L		87	37 - 145
Isobutyl alcohol	1250	1250		ug/L		100	46 - 132
Methylene Chloride	50.0	50.6		ug/L		101	64 - 128
m-Xylene & p-Xylene	50.0	47.8		ug/L		96	76 - 122
o-Xylene	50.0	45.1		ug/L		90	77 - 120
Styrene	50.0	45.8		ug/L		92	79 - 120
Tetrachloroethene	50.0	44.5		ug/L		89	72 - 127
Toluene	50.0	48.2		ug/L		96	68 - 127
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	66 - 129
trans-1,3-Dichloropropene	50.0	46.3		ug/L		93	66 - 127
Trichloroethene	50.0	47.8		ug/L		96	70 - 125
Trichlorofluoromethane	50.0	47.5		ug/L		95	57 - 144

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 280-621922/4

Matrix: Water

Analysis Batch: 621922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl acetate	100	127		ug/L		127	61 - 139
Vinyl chloride	50.0	51.0		ug/L		102	53 - 141
Xylenes, Total	100	92.9		ug/L		93	77 - 120
2-Butanone (MEK)	200	211		ug/L		105	53 - 135
Acrolein	494	478		ug/L		97	10 - 207
Acrylonitrile	500	497		ug/L		99	65 - 133
1,2-Dibromoethane	50.0	46.5		ug/L		93	81 - 118
1,2,4-Trichlorobenzene	50.0	46.9		ug/L		94	73 - 124
Allyl chloride	50.0	51.1		ug/L		102	57 - 136
Ethyl methacrylate	50.0	46.4		ug/L		93	69 - 126
trans-1,4-Dichloro-2-butene	50.0	44.8		ug/L		90	44 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
4-Bromofluorobenzene (Surr)	102		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	99		77 - 120

Lab Sample ID: LCS 280-621922/5

Matrix: Water

Analysis Batch: 621922

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroprene	25.0	24.7		ug/L		99	53 - 147
Acetonitrile	250	215		ug/L		86	45 - 142
Methacrylonitrile	250	213		ug/L		85	47 - 142
Methyl methacrylate	50.0	43.9		ug/L		88	60 - 131
Propionitrile	250	207		ug/L		83	52 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
4-Bromofluorobenzene (Surr)	102		78 - 120
Toluene-d8 (Surr)	100		80 - 125
Dibromofluoromethane (Surr)	98		77 - 120

Lab Sample ID: LCSD 280-621922/6

Matrix: Water

Analysis Batch: 621922

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	44.7		ug/L		89	74 - 121	1	20
1,1,1-Trichloroethane	50.0	48.2		ug/L		96	62 - 132	2	20
1,1,2,2-Tetrachloroethane	50.0	49.4		ug/L		99	72 - 122	1	20
1,1,2-Trichloroethane	50.0	46.9		ug/L		94	72 - 128	2	20
1,1-Dichloroethane	50.0	47.6		ug/L		95	66 - 130	1	20
1,1-Dichloroethene	50.0	44.4		ug/L		89	62 - 130	1	21
1,1-Dichloropropene	50.0	45.5		ug/L		91	64 - 133	3	20
1,2,3-Trichloropropane	50.0	44.6		ug/L		89	74 - 123	1	20

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QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621922/6

Matrix: Water

Analysis Batch: 621922

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	50.0	40.2		ug/L		80	58 - 122	4	21
1,2-Dichlorobenzene	50.0	45.3		ug/L		91	77 - 121	0	20
1,2-Dichloroethane	50.0	46.1		ug/L		92	61 - 130	1	20
1,2-Dichloropropane	50.0	45.2		ug/L		90	68 - 127	1	20
1,3-Dichlorobenzene	50.0	47.6		ug/L		95	76 - 121	2	20
1,3-Dichloropropane	50.0	49.8		ug/L		100	80 - 118	2	20
1,4-Dichlorobenzene	50.0	45.4		ug/L		91	76 - 119	0	20
2,2-Dichloropropane	50.0	48.4		ug/L		97	57 - 140	5	22
2-Hexanone	200	188		ug/L		94	58 - 134	2	21
4-Methyl-2-pentanone (MIBK)	200	193		ug/L		97	56 - 135	3	20
Acetone	200	190		ug/L		95	50 - 137	14	21
Benzene	50.0	44.7		ug/L		89	69 - 126	2	20
Bromoform	50.0	40.1		ug/L		80	57 - 125	2	20
Bromomethane	50.0	46.1		ug/L		92	25 - 163	15	40
Carbon disulfide	50.0	41.9		ug/L		84	56 - 128	5	20
Carbon tetrachloride	50.0	43.1		ug/L		86	60 - 133	3	20
Chlorobenzene	50.0	45.8		ug/L		92	78 - 118	1	20
Chlorobromomethane	50.0	48.3		ug/L		97	71 - 130	3	20
Chlorodibromomethane	50.0	43.7		ug/L		87	71 - 122	0	20
Chloroethane	50.0	48.4		ug/L		97	52 - 144	2	30
Chloroform	50.0	49.7		ug/L		99	68 - 128	2	20
Chloromethane	50.0	48.0		ug/L		96	43 - 142	0	20
cis-1,2-Dichloroethene	50.0	48.2		ug/L		96	69 - 126	3	20
cis-1,3-Dichloropropene	50.0	46.8		ug/L		94	75 - 120	3	20
Dibromomethane	50.0	45.8		ug/L		92	68 - 129	3	20
Dichlorobromomethane	50.0	44.8		ug/L		90	67 - 126	3	20
Dichlorodifluoromethane	50.0	46.6		ug/L		93	26 - 152	2	21
Ethylbenzene	50.0	45.1		ug/L		90	76 - 121	0	20
Iodomethane	50.0	48.2		ug/L		96	37 - 145	10	38
Isobutyl alcohol	1250	1170		ug/L		93	46 - 132	7	30
Methylene Chloride	50.0	49.6		ug/L		99	64 - 128	2	20
m-Xylene & p-Xylene	50.0	47.8		ug/L		96	76 - 122	0	20
o-Xylene	50.0	45.2		ug/L		90	77 - 120	0	20
Styrene	50.0	46.1		ug/L		92	79 - 120	1	20
Tetrachloroethene	50.0	44.5		ug/L		89	72 - 127	0	20
Toluene	50.0	47.1		ug/L		94	68 - 127	2	20
trans-1,2-Dichloroethene	50.0	47.3		ug/L		95	66 - 129	4	20
trans-1,3-Dichloropropene	50.0	45.4		ug/L		91	66 - 127	2	20
Trichloroethene	50.0	47.9		ug/L		96	70 - 125	0	20
Trichlorofluoromethane	50.0	46.4		ug/L		93	57 - 144	2	28
Vinyl acetate	100	127		ug/L		127	61 - 139	0	23
Vinyl chloride	50.0	48.2		ug/L		96	53 - 141	6	25
Xylenes, Total	100	93.0		ug/L		93	77 - 120	0	20
2-Butanone (MEK)	200	187		ug/L		93	53 - 135	12	20
Acrolein	494	450		ug/L		91	10 - 207	6	23
Acrylonitrile	500	467		ug/L		93	65 - 133	6	20
1,2-Dibromoethane	50.0	45.6		ug/L		91	81 - 118	2	20
1,2,4-Trichlorobenzene	50.0	45.7		ug/L		91	73 - 124	3	20
Allyl chloride	50.0	48.9		ug/L		98	57 - 136	4	20

Eurofins Denver

QC Sample Results

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-621922/6

Matrix: Water

Analysis Batch: 621922

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethyl methacrylate	50.0	46.6		ug/L		93	69 - 126	0	20
trans-1,4-Dichloro-2-butene	50.0	44.7		ug/L		89	44 - 131	0	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
4-Bromofluorobenzene (Surr)	101		78 - 120
Toluene-d8 (Surr)	102		80 - 125
Dibromofluoromethane (Surr)	99		77 - 120

Lab Sample ID: LCSD 280-621922/7

Matrix: Water

Analysis Batch: 621922

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloroprene	25.0	25.7		ug/L		103	53 - 147	4	20
Acetonitrile	250	212		ug/L		85	45 - 142	1	20
Methacrylonitrile	250	214		ug/L		86	47 - 142	1	20
Methyl methacrylate	50.0	42.6		ug/L		85	60 - 131	3	20
Propionitrile	250	208		ug/L		83	52 - 138	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
4-Bromofluorobenzene (Surr)	103		78 - 120
Toluene-d8 (Surr)	99		80 - 125
Dibromofluoromethane (Surr)	101		77 - 120

QC Association Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

GC/MS VOA

Analysis Batch: 621653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179478-1	RW-8284P-20230720	Total/NA	Water	8260D	
280-179478-2	RW-2076F-20230721	Total/NA	Water	8260D	
280-179478-3	RW-2172H-20230721	Total/NA	Water	8260D	
280-179478-5	RW-8012P-20230721	Total/NA	Water	8260D	
280-179478-6	RW-7677P-20230721	Total/NA	Water	8260D	
280-179478-7	RW-2213F-20230721	Total/NA	Water	8260D	
280-179478-8	RW-7773P-20230721	Total/NA	Water	8260D	
280-179478-9	RW-7549P-20230721	Total/NA	Water	8260D	
280-179478-10	PA-4-100-110-20230722	Total/NA	Water	8260D	
280-179478-15	EB-03-20230722	Total/NA	Water	8260D	
MB 280-621653/9	Method Blank	Total/NA	Water	8260D	
LCS 280-621653/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-621653/6	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-621653/5	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-621653/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 621775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179478-4	RW-8048P-20230721	Total/NA	Water	8260D	
280-179478-14	PA-1-20230722	Total/NA	Water	8260D	
280-179478-16	PA-1-Q-20230722	Total/NA	Water	8260D	
MB 280-621775/9	Method Blank	Total/NA	Water	8260D	
LCS 280-621775/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-621775/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-621775/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-621775/7	Lab Control Sample Dup	Total/NA	Water	8260D	
280-179478-4 MS	RW-8048P-20230721	Total/NA	Water	8260D	
280-179478-4 MSD	RW-8048P-20230721	Total/NA	Water	8260D	

Analysis Batch: 621894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179478-11	TB-02-20230723	Total/NA	Water	8260D	
280-179478-12	PA-8-77-87-20230723	Total/NA	Water	8260D	
MB 280-621894/9	Method Blank	Total/NA	Water	8260D	
LCS 280-621894/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-621894/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-621894/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-621894/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 621922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-179478-13	MW-116S-20230723	Total/NA	Water	8260D	
MB 280-621922/9	Method Blank	Total/NA	Water	8260D	
LCS 280-621922/4	Lab Control Sample	Total/NA	Water	8260D	
LCS 280-621922/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 280-621922/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 280-621922/7	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-8284P-20230720

Lab Sample ID: 280-179478-1

Date Collected: 07/20/23 16:35

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621653	08/03/23 13:53	MD	EET DEN

Client Sample ID: RW-2076F-20230721

Lab Sample ID: 280-179478-2

Date Collected: 07/21/23 11:35

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621653	08/03/23 14:15	MD	EET DEN

Client Sample ID: RW-2172H-20230721

Lab Sample ID: 280-179478-3

Date Collected: 07/21/23 13:40

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621653	08/03/23 14:36	MD	EET DEN

Client Sample ID: RW-8048P-20230721

Lab Sample ID: 280-179478-4

Date Collected: 07/21/23 12:20

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621775	08/03/23 19:53	SJD	EET DEN

Client Sample ID: RW-8012P-20230721

Lab Sample ID: 280-179478-5

Date Collected: 07/21/23 14:10

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621653	08/03/23 14:57	MD	EET DEN

Client Sample ID: RW-7677P-20230721

Lab Sample ID: 280-179478-6

Date Collected: 07/21/23 15:30

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621653	08/03/23 15:19	MD	EET DEN

Client Sample ID: RW-2213F-20230721

Lab Sample ID: 280-179478-7

Date Collected: 07/21/23 15:25

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621653	08/03/23 15:40	MD	EET DEN

Lab Chronicle

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: RW-7773P-20230721

Lab Sample ID: 280-179478-8

Date Collected: 07/21/23 16:20

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621653	08/03/23 16:02	MD	EET DEN

Client Sample ID: RW-7549P-20230721

Lab Sample ID: 280-179478-9

Date Collected: 07/21/23 16:40

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621653	08/03/23 16:23	MD	EET DEN

Client Sample ID: PA-4-100-110-20230722

Lab Sample ID: 280-179478-10

Date Collected: 07/22/23 11:00

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621653	08/03/23 16:45	MD	EET DEN

Client Sample ID: TB-02-20230723

Lab Sample ID: 280-179478-11

Date Collected: 07/23/23 21:00

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621894	08/04/23 19:31	SJD	EET DEN

Client Sample ID: PA-8-77-87-20230723

Lab Sample ID: 280-179478-12

Date Collected: 07/23/23 11:10

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621894	08/04/23 23:41	SJD	EET DEN

Client Sample ID: MW-116S-20230723

Lab Sample ID: 280-179478-13

Date Collected: 07/23/23 13:55

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621922	08/05/23 01:41	BMJ	EET DEN

Client Sample ID: PA-1-20230722

Lab Sample ID: 280-179478-14

Date Collected: 07/22/23 10:45

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621775	08/03/23 21:17	SJD	EET DEN

Lab Chronicle

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Client Sample ID: EB-03-20230722

Lab Sample ID: 280-179478-15

Date Collected: 07/22/23 13:25

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621653	08/03/23 11:23	MD	EET DEN

Client Sample ID: PA-1-Q-20230722

Lab Sample ID: 280-179478-16

Date Collected: 07/22/23 10:45

Matrix: Water

Date Received: 07/25/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	621775	08/03/23 21:37	SJD	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Laboratory: Eurofins Denver

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4025-019	01-08-24

Method Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: CDM Smith Inc
Project/Site: Bannock Ft. Hall Mine LF, Idaho

Job ID: 280-179478-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-179478-1	RW-8284P-20230720	Water	07/20/23 16:35	07/25/23 09:45
280-179478-2	RW-2076F-20230721	Water	07/21/23 11:35	07/25/23 09:45
280-179478-3	RW-2172H-20230721	Water	07/21/23 13:40	07/25/23 09:45
280-179478-4	RW-8048P-20230721	Water	07/21/23 12:20	07/25/23 09:45
280-179478-5	RW-8012P-20230721	Water	07/21/23 14:10	07/25/23 09:45
280-179478-6	RW-7677P-20230721	Water	07/21/23 15:30	07/25/23 09:45
280-179478-7	RW-2213F-20230721	Water	07/21/23 15:25	07/25/23 09:45
280-179478-8	RW-7773P-20230721	Water	07/21/23 16:20	07/25/23 09:45
280-179478-9	RW-7549P-20230721	Water	07/21/23 16:40	07/25/23 09:45
280-179478-10	PA-4-100-110-20230722	Water	07/22/23 11:00	07/25/23 09:45
280-179478-11	TB-02-20230723	Water	07/23/23 21:00	07/25/23 09:45
280-179478-12	PA-8-77-87-20230723	Water	07/23/23 11:10	07/25/23 09:45
280-179478-13	MW-116S-20230723	Water	07/23/23 13:55	07/25/23 09:45
280-179478-14	PA-1-20230722	Water	07/22/23 10:45	07/25/23 09:45
280-179478-15	EB-03-20230722	Water	07/22/23 13:25	07/25/23 09:45
280-179478-16	PA-1-Q-20230722	Water	07/22/23 10:45	07/25/23 09:45

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS1 Analysis Batch Number: 621383Lab Sample ID: ICIS 280-621383/16 Client Sample ID: _____Date Analyzed: 08/01/23 10:55 Lab File ID: MS1_2679.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	3.77	Wrong peak	AF7X	08/01/23 12:48

Lab Sample ID: IC 280-621383/20 Client Sample ID: _____Date Analyzed: 08/01/23 12:21 Lab File ID: MS1_2683.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorofluoromethane	2.86	Invalid Compound ID	Q2ZS	08/01/23 14:17

Lab Sample ID: IC 280-621383/21 Client Sample ID: _____Date Analyzed: 08/01/23 12:42 Lab File ID: MS1_2684.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.81	Peak assignment corrected	Q2ZS	08/01/23 13:55
Dichlorofluoromethane	2.86	Invalid Compound ID	Q2ZS	08/01/23 14:17
1,1-Dichloroethane	4.54	Invalid Compound ID	Q2ZS	08/01/23 14:00
2,2-Dichloropropane	5.04	Invalid Compound ID	Q2ZS	08/01/23 14:01
1,1,1-Trichloroethane	5.47	Invalid Compound ID	Q2ZS	08/01/23 14:02
n-Heptane	6.02	Invalid Compound ID	Q2ZS	08/01/23 14:02
1-Chlorohexane	8.76	Invalid Compound ID	Q2ZS	08/01/23 14:03
m-Xylene & p-Xylene	8.99	Invalid Compound ID	Q2ZS	08/01/23 14:03
1,1-Dichloropropene		Invalid Compound ID	Q2ZS	08/01/23 14:02
1,2,4-Trichlorobenzene		Invalid Compound ID	Q2ZS	08/01/23 14:05
1,2-Dichloroethane		Peak assignment corrected	Q2ZS	08/01/23 14:02
1,3,5-Trimethylbenzene		Invalid Compound ID	Q2ZS	08/01/23 14:04
1,4-Dichlorobenzene		Invalid Compound ID	Q2ZS	08/01/23 14:05
2-Butanone (MEK)		Invalid Compound ID	Q2ZS	08/01/23 14:00
2-Chlorotoluene		Invalid Compound ID	Q2ZS	08/01/23 14:04
Allyl chloride		Invalid Compound ID	Q2ZS	08/01/23 13:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS1 Analysis Batch Number: 621383Lab Sample ID: IC 280-621383/21 Client Sample ID: _____Date Analyzed: 08/01/23 12:42 Lab File ID: MS1_2684.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene		Invalid Compound ID	Q2ZS	08/01/23 14:02
Bromomethane		Invalid Compound ID	Q2ZS	08/01/23 13:56
Carbon tetrachloride		Invalid Compound ID	Q2ZS	08/01/23 14:02
Chlorobenzene		Invalid Compound ID	Q2ZS	08/01/23 14:03
Chlorobromomethane		Invalid Compound ID	Q2ZS	08/01/23 14:01
Chloroethane		Invalid Compound ID	Q2ZS	08/01/23 13:57
Chloroform		Invalid Compound ID	Q2ZS	08/01/23 14:01
Chloromethane		Invalid Compound ID	Q2ZS	08/01/23 13:55
cis-1,2-Dichloroethene		Invalid Compound ID	Q2ZS	08/01/23 14:00
Dibromomethane		Invalid Compound ID	Q2ZS	08/01/23 14:03
Ethylbenzene		Invalid Compound ID	Q2ZS	08/01/23 14:03
Hexachlorobutadiene		Invalid Compound ID	Q2ZS	08/01/23 14:05
Isopropylbenzene		Invalid Compound ID	Q2ZS	08/01/23 14:04
Methylene Chloride		Invalid Compound ID	Q2ZS	08/01/23 13:59
n-Butylbenzene		Invalid Compound ID	Q2ZS	08/01/23 14:05
N-Propylbenzene		Invalid Compound ID	Q2ZS	08/01/23 14:04
o-Xylene		Invalid Compound ID	Q2ZS	08/01/23 14:03
sec-Butylbenzene		Invalid Compound ID	Q2ZS	08/01/23 14:04
Styrene		Invalid Compound ID	Q2ZS	08/01/23 14:03
trans-1,2-Dichloroethene		Invalid Compound ID	Q2ZS	08/01/23 14:00
trans-1,4-Dichloro-2-butene		Invalid Compound ID	Q2ZS	08/01/23 14:04
Trichloroethene		Invalid Compound ID	Q2ZS	08/01/23 14:02
Vinyl chloride		Invalid Compound ID	Q2ZS	08/01/23 13:56
4-Chlorotoluene	10.35	Invalid Compound ID	Q2ZS	08/01/23 14:04
tert-Butylbenzene	10.63	Invalid Compound ID	Q2ZS	08/01/23 14:04
1,2,4-Trimethylbenzene	10.68	Invalid Compound ID	Q2ZS	08/01/23 14:04
1,3-Dichlorobenzene	10.98	Invalid Compound ID	Q2ZS	08/01/23 14:04
4-Isopropyltoluene	10.99	Invalid Compound ID	Q2ZS	08/01/23 14:05
Naphthalene	13.32	Invalid Compound ID	Q2ZS	08/01/23 14:05
1,2,3-Trichlorobenzene	13.55	Invalid Compound ID	Q2ZS	08/01/23 14:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS1 Analysis Batch Number: 621922Lab Sample ID: MB 280-621922/9 Client Sample ID: _____Date Analyzed: 08/04/23 20:04 Lab File ID: MS1_2881.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile		Invalid Compound ID	V8PV	08/04/23 21:08

Lab Sample ID: 280-179478-13 Client Sample ID: MW-116S-20230723Date Analyzed: 08/05/23 01:41 Lab File ID: MS1_2896.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile		Invalid Compound ID	AF7X	08/07/23 07:00
Isobutyl alcohol		Invalid Compound ID	AF7X	08/07/23 07:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS11 Analysis Batch Number: 621390Lab Sample ID: IC 280-621390/20 Client Sample ID: _____Date Analyzed: 08/01/23 10:09 Lab File ID: ms11_00000439.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2,3-Trichloropropane	8.83	Assign Peak	BX8N	08/01/23 10:41

Lab Sample ID: IC 280-621390/21 Client Sample ID: _____Date Analyzed: 08/01/23 10:30 Lab File ID: ms11_00000440.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	5.60	Assign Peak	BX8N	08/01/23 11:06
1,2,3-Trichloropropane	8.83	Assign Peak	BX8N	08/01/23 11:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS11 Analysis Batch Number: 621653Lab Sample ID: MB 280-621653/9 Client Sample ID: _____Date Analyzed: 08/03/23 10:19 Lab File ID: ms11_00000554.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.27	Invalid Compound ID	BX8N	08/03/23 12:13
Allyl chloride		Invalid Compound ID	BX8N	08/03/23 12:14
Chloromethane		Invalid Compound ID	BX8N	08/03/23 12:14
Isobutyl alcohol		Invalid Compound ID	BX8N	08/03/23 12:15
Methacrylonitrile		Invalid Compound ID	BX8N	08/03/23 12:15
trans-1,4-Dichloro-2-butene		Invalid Compound ID	BX8N	08/03/23 12:15

Lab Sample ID: 280-179478-15 Client Sample ID: EB-03-20230722Date Analyzed: 08/03/23 11:23 Lab File ID: ms11_00000557.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Dichlorobenzene		Invalid Compound ID	AK2J	08/04/23 00:01
Acrolein		Invalid Compound ID	AK2J	08/04/23 00:00
Allyl chloride		Invalid Compound ID	AK2J	08/04/23 00:01
Bromomethane		Invalid Compound ID	AK2J	08/04/23 00:00
Chloromethane		Invalid Compound ID	AK2J	08/04/23 00:00
Propionitrile		Invalid Compound ID	AK2J	08/04/23 00:01
trans-1,4-Dichloro-2-butene		Invalid Compound ID	AK2J	08/04/23 00:01

Lab Sample ID: 280-179478-1 Client Sample ID: RW-8284P-20230720Date Analyzed: 08/03/23 13:53 Lab File ID: ms11_00000564.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane		Invalid Compound ID	AK2J	08/04/23 00:05
Chloromethane		Invalid Compound ID	AK2J	08/04/23 00:05
Isobutyl alcohol		Invalid Compound ID	AK2J	08/04/23 00:05
Methylene Chloride		Invalid Compound ID	AK2J	08/04/23 00:05

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS11 Analysis Batch Number: 621653Lab Sample ID: 280-179478-2 Client Sample ID: RW-2076F-20230721Date Analyzed: 08/03/23 14:15 Lab File ID: ms11_00000565.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4-Methyl-2-pentanone (MIBK)		Invalid Compound ID	AK2J	08/04/23 00:06
Chloromethane		Invalid Compound ID	AK2J	08/04/23 00:05

Lab Sample ID: 280-179478-3 Client Sample ID: RW-2172H-20230721Date Analyzed: 08/03/23 14:36 Lab File ID: ms11_00000566.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile		Invalid Compound ID	AK2J	08/04/23 00:06
Chloromethane		Invalid Compound ID	AK2J	08/04/23 00:06

Lab Sample ID: 280-179478-5 Client Sample ID: RW-8012P-20230721Date Analyzed: 08/03/23 14:57 Lab File ID: ms11_00000567.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
trans-1,4-Dichloro-2-butene		Invalid Compound ID	AK2J	08/04/23 00:06

Lab Sample ID: 280-179478-6 Client Sample ID: RW-7677P-20230721Date Analyzed: 08/03/23 15:19 Lab File ID: ms11_00000568.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrylonitrile		Invalid Compound ID	AK2J	08/04/23 00:07
Chloromethane		Invalid Compound ID	AK2J	08/04/23 00:07
Isobutyl alcohol		Invalid Compound ID	AK2J	08/04/23 00:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS11 Analysis Batch Number: 621653Lab Sample ID: 280-179478-8 Client Sample ID: RW-7773P-20230721Date Analyzed: 08/03/23 16:02 Lab File ID: ms11_00000570.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrolein		Invalid Compound ID	AK2J	08/04/23 00:08
Chloromethane		Invalid Compound ID	AK2J	08/04/23 00:08

Lab Sample ID: 280-179478-9 Client Sample ID: RW-7549P-20230721Date Analyzed: 08/03/23 16:23 Lab File ID: ms11_00000571.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	AK2J	08/04/23 00:08
cis-1,2-Dichloroethene		Invalid Compound ID	AK2J	08/04/23 00:08
trans-1,4-Dichloro-2-butene		Invalid Compound ID	AK2J	08/04/23 00:08

Lab Sample ID: 280-179478-10 Client Sample ID: PA-4-100-110-20230722Date Analyzed: 08/03/23 16:45 Lab File ID: ms11_00000572.D GC Column: RXI-624SilMS ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	AK2J	08/04/23 00:08
Isobutyl alcohol		Invalid Compound ID	AK2J	08/04/23 00:08
trans-1,4-Dichloro-2-butene		Invalid Compound ID	AK2J	08/04/23 00:09

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 570124Lab Sample ID: STD1 280-570124/14 IC Client Sample ID: _____Date Analyzed: 03/29/22 17:08 Lab File ID: R3108.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tert-butyl ethyl ether	3.91	Incomplete Integration	peppinga	03/29/22 18:29
Tert-amyl methyl ether	4.75	Incomplete Integration	peppinga	03/29/22 18:30

Lab Sample ID: STD5 280-570124/16 IC Client Sample ID: _____Date Analyzed: 03/29/22 17:51 Lab File ID: R3110.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopropyl ether	3.66	Incomplete Integration	peppinga	03/29/22 18:31

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 621220Lab Sample ID: IC 280-621220/13 Client Sample ID: _____Date Analyzed: 07/30/23 16:32 Lab File ID: R_6570.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexanone	8.34	Assign Peak	AF7X	07/31/23 05:45
2-Chlorotoluene	8.74	Assign Peak	AF7X	07/31/23 05:45

Lab Sample ID: IC 280-621220/14 Client Sample ID: _____Date Analyzed: 07/30/23 16:53 Lab File ID: R_6571.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexanone	8.34	Wrong peak	AF7X	07/31/23 05:46

Lab Sample ID: IC 280-621220/15 Client Sample ID: _____Date Analyzed: 07/30/23 17:14 Lab File ID: R_6572.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexanone	8.34	Wrong peak	AF7X	07/31/23 05:47

Lab Sample ID: IC 280-621220/19 Client Sample ID: _____Date Analyzed: 07/30/23 18:37 Lab File ID: R_6576.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromo-3-Chloropropane	10.72	Split Peak	AF7X	07/31/23 05:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 621220Lab Sample ID: IC 280-621220/20 Client Sample ID: _____Date Analyzed: 07/30/23 18:58 Lab File ID: R_6577.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	2.72	Split Peak	AF7X	07/31/23 05:53
Methyl tert-butyl ether	3.26	Split Peak	AF7X	07/31/23 05:53
2-Butanone (MEK)	3.96	Split Peak	AF7X	07/31/23 05:54
Carbon tetrachloride	4.46	Split Peak	AF7X	07/31/23 05:54
n-Heptane	4.80	Assign Peak	AF7X	07/31/23 05:54
2-Chloroethyl vinyl ether	5.69	Split Peak	AF7X	07/31/23 05:55
1,1,2-Trichloroethane	6.47	Split Peak	AF7X	07/31/23 05:55
Tetrachloroethene	6.56	Split Peak	AF7X	07/31/23 05:55
2-Hexanone	6.64	Split Peak	AF7X	07/31/23 05:55
1-Chlorohexane	7.32	Split Peak	AF7X	07/31/23 05:55
m-Xylene & p-Xylene	7.55	Split Peak	AF7X	07/31/23 05:56
trans-1,4-Dichloro-2-butene	8.59	Split Peak	AF7X	07/31/23 05:56
4-Chlorotoluene	8.86	Split Peak	AF7X	07/31/23 05:56
1,2-Dibromo-3-Chloropropane	10.69	Split Peak	AF7X	07/31/23 05:57
Hexachlorobutadiene	11.66	Split Peak	AF7X	07/31/23 05:57
Naphthalene	11.80	Split Peak	AF7X	07/31/23 05:57
1,2,3-Trichlorobenzene	12.01	Split Peak	AF7X	07/31/23 05:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 621220Lab Sample ID: IC 280-621220/21 Client Sample ID: _____Date Analyzed: 07/30/23 19:19 Lab File ID: R_6578.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone (MEK)	3.96	Assign Peak	AF7X	07/31/23 05:58
2,2-Dichloropropane	3.98	Assign Peak	AF7X	07/31/23 05:58
sec-Butyl Alcohol	4.08	Assign Peak	AF7X	07/31/23 05:58
2-Pentanone	5.21	Assign Peak	AF7X	07/31/23 05:58
1,2-Dichloropropane	5.29	Assign Peak	AF7X	07/31/23 05:58
1,4-Dioxane	5.33	Assign Peak	AF7X	07/31/23 05:58
trans-1,3-Dichloropropene	6.30	Assign Peak	AF7X	07/31/23 05:58
1,2,3-Trichloropropane	8.59	Assign Peak	AF7X	07/31/23 05:59
trans-1,4-Dichloro-2-butene	8.59	Assign Peak	AF7X	07/31/23 05:59
Hexachlorobutadiene	11.67	Assign Peak	AF7X	07/31/23 05:59
Naphthalene	11.81	Assign Peak	AF7X	07/31/23 05:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_R1 Analysis Batch Number: 621775Lab Sample ID: MB 280-621775/9 Client Sample ID: _____Date Analyzed: 08/03/23 18:17 Lab File ID: R_6792.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane		Invalid Compound ID	J6NB	08/03/23 23:12
Acetonitrile		Invalid Compound ID	J6NB	08/03/23 23:12
Isobutyl alcohol		Invalid Compound ID	J6NB	08/03/23 23:11

Lab Sample ID: 280-179478-16 Client Sample ID: PA-1-Q-20230722Date Analyzed: 08/03/23 21:37 Lab File ID: R_6801.D GC Column: DB-624 (60.25 ID: 0.25 (mm))

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isobutyl alcohol		Invalid Compound ID	J6NB	08/03/23 23:16

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
Cal Dil Std_00211	08/01/23	07/25/23	P&T Methanol, Lot ED137-US	1000 uL	MV-Gas B_00141	20 uL	Bromomethane	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					MV-MegaMain B_00088	50 uL	2-Chloroethyl vinyl ether	5 ug/mL
							Acrolein	49.375 ug/mL
							2-Butanone (MEK)	20 ug/mL
							2-Hexanone	20 ug/mL
							4-Methyl-2-pentanone (MIBK)	20 ug/mL
							Acetone	20 ug/mL
							Vinyl acetate	10 ug/mL
							Cyclohexanone	150 ug/mL
							1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dibromoethane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Allyl chloride	5 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
							1-Chlorohexane	4 ug/mL
							2-Pentanone	16 ug/mL
							sec-Butyl Alcohol	120 ug/mL
.MV-Gas B_00141	08/14/23	07/14/23	P&T Methanol, Lot ea1899-us	12.5 mL	MV-569722.sec_00017	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723.sec_00015	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
..MV-569722.sec_00017	05/31/26		RESTEK, Lot A0197640		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..MV-569723.sec_00015	01/31/26		RESTEK, Lot A0193808		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.MV-MegaMain B_00088	08/21/23	07/19/23	P&T Methanol, Lot 181124	25 mL	MV-568720.sec_00039	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00010	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724.sec_00036	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727.sec_00012	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992.sec_00007	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver

Job No.: 280-179478-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	1000 ug/mL
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					MV-CUS17739_00015	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
..MV-568720.sec 00039	08/31/24	RESTEK, Lot A0194755			(Purchased Reagent)		Acrolein	19750 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MV-569721.sec_00010	04/30/25		RESTEK, Lot A0184721		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..MV-569724.sec_00036	04/30/24		RESTEK, Lot A0190670		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..MV-569727.sec_00012	03/21/25		RESTEK, Lot A0182847		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..MV-571992.sec_00007	06/30/23		RESTEK, Lot A0167172		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
..MV-CUS17739_00015	12/31/24		Agilent, Lot 6712667		(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
Cal DiI Std_00214	08/01/23	07/25/23	P&T Methanol, Lot ED137-US	100 uL	MV-Gas A_00161	2 uL	Bromomethane	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
							Vinyl chloride	5 ug/mL
					MV-MegaMainA_00092	5 uL	2-Chloroethyl vinyl ether	5 ug/mL
							Acrolein	49.375 ug/mL
							2-Butanone (MEK)	20 ug/mL
							2-Hexanone	20 ug/mL
							4-Methyl-2-pentanone (MIBK)	20 ug/mL
							Acetone	20 ug/mL
							Vinyl acetate	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexanone	150 ug/mL
							1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL
							1,2-Dibromoethane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Allyl chloride	5 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
							1-Chlorohexane	4 ug/mL
							2-Pentanone	16 ug/mL
							sec-Butyl Alcohol	120 ug/mL
.MV-Gas A_00161	08/28/23	07/26/23	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00022	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723_00018	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
..MV-569722_00022	08/31/25		RESTEK, Lot A0189184		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..MV-569723_00018	01/31/26		RESTEK, Lot A0193735		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.MV-MegaMainA_00092	08/14/23	07/14/23	P&T Methanol, Lot 181124	25 mL	MV-568720_00046	1250 uL	Acrolein	987.5 ug/mL
					MV-569721_00015	800 uL	2-Butanone (MEK)	400 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
							Vinyl acetate	200 ug/mL
					MV-569724_00035	1000 uL	Cyclohexanone	3000 ug/mL
					MV-569727_00023	3000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
					MV-571992_00015	1000 uL	1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					MV-CUS17739.s_00011	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
..MV-568720_00046	07/31/24	RESTEK, Lot A0193730			(Purchased Reagent)		Acrolein	19750 ug/mL
..MV-569721_00015	01/31/26	RESTEK, Lot A0193494			(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
						2-Hexanone	12500 ug/mL	
						4-Methyl-2-pentanone (MIBK)	12500 ug/mL	
						Acetone	12500 ug/mL	
..MV-569724_00035	01/31/24	RESTEK, Lot A0187365			(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..MV-569727_00023	08/31/25	RESTEK, Lot A0189172			(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..MV-571992_00015	09/30/24	RESTEK, Lot A0183568			(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
						1,1,1-Trichloroethane	2500 ug/mL	
						1,1,2,2-Tetrachloroethane	2500 ug/mL	
						1,1,2-Trichloro-1,2,2-trifluor oethane	2500 ug/mL	
						1,1,2-Trichloroethane	2500 ug/mL	
						1,1-Dichloroethane	2500 ug/mL	
						1,1-Dichloroethene	2500 ug/mL	
						1,1-Dichloropropene	2500 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MV-CUS17739.s_00011	05/31/24		Agilent, Lot 6676357.sec		(Purchased Reagent)		Trichloroethene	2500 ug/mL
							1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
Cal Dil Std_00216	08/14/23	08/01/23	P&T Methanol, Lot ED137-US	100 uL	MV-Gas A_00161	2 uL	sec-Butyl Alcohol	30000 ug/mL
							Bromomethane	5 ug/mL
							Chloroethane	5 ug/mL
							Chloromethane	5 ug/mL
							Dichlorodifluoromethane	5 ug/mL
							Dichlorofluoromethane	5 ug/mL
							Trichlorofluoromethane	5 ug/mL
					MV-MegaMainA_00092	5 uL	Vinyl chloride	5 ug/mL
							2-Chloroethyl vinyl ether	5 ug/mL
							Acrolein	49.375 ug/mL
							2-Butanone (MEK)	20 ug/mL
							2-Hexanone	20 ug/mL
							4-Methyl-2-pentanone (MIBK)	20 ug/mL
							Acetone	20 ug/mL
							Vinyl acetate	10 ug/mL
							Cyclohexanone	150 ug/mL
							1,1,1,2-Tetrachloroethane	5 ug/mL
							1,1,1-Trichloroethane	5 ug/mL
							1,1,2,2-Tetrachloroethane	5 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	5 ug/mL
							1,1,2-Trichloroethane	5 ug/mL
							1,1-Dichloroethane	5 ug/mL
							1,1-Dichloroethene	5 ug/mL
							1,1-Dichloropropene	5 ug/mL
							1,2,3-Trichlorobenzene	5 ug/mL
							1,2,3-Trichloropropane	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2,4-Trimethylbenzene	5 ug/mL
							1,2-Dibromo-3-Chloropropane	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver

Job No.: 280-179478-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Dichloroethane	5 ug/mL
							1,2-Dichloropropane	5 ug/mL
							1,3,5-Trimethylbenzene	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,3-Dichloropropane	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2-Dichloropropane	5 ug/mL
							2-Chlorotoluene	5 ug/mL
							2-Methyl-2-propanol	50 ug/mL
							4-Chlorotoluene	5 ug/mL
							4-Isopropyltoluene	5 ug/mL
							Acrylonitrile	50 ug/mL
							Allyl chloride	5 ug/mL
							Benzene	5 ug/mL
							Bromobenzene	5 ug/mL
							Bromoform	5 ug/mL
							Carbon disulfide	5 ug/mL
							Carbon tetrachloride	5 ug/mL
							Chlorobenzene	5 ug/mL
							Chlorobromomethane	5 ug/mL
							Chlorodibromomethane	5 ug/mL
							Chloroform	5 ug/mL
							cis-1,2-Dichloroethene	5 ug/mL
							cis-1,3-Dichloropropene	5 ug/mL
							Cyclohexane	5 ug/mL
							Dibromomethane	5 ug/mL
							Dichlorobromomethane	5 ug/mL
							Ethyl ether	5 ug/mL
							Ethyl methacrylate	5 ug/mL
							Ethylbenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexane	5 ug/mL
							Iodomethane	5 ug/mL
							Isobutyl alcohol	125 ug/mL
							Isopropylbenzene	5 ug/mL
							m-Xylene & p-Xylene	5 ug/mL
							Methyl acetate	10 ug/mL
							Methyl tert-butyl ether	5 ug/mL
							Methylcyclohexane	5 ug/mL
							Methylene Chloride	5 ug/mL
							n-Butylbenzene	5 ug/mL
							n-Heptane	5 ug/mL
							N-Propylbenzene	5 ug/mL
							Naphthalene	5 ug/mL
							o-Xylene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	5 ug/mL
							Styrene	5 ug/mL
							tert-Butylbenzene	5 ug/mL
							Tetrachloroethene	5 ug/mL
							Tetrahydrofuran	10 ug/mL
							Toluene	5 ug/mL
							trans-1,2-Dichloroethene	5 ug/mL
							trans-1,3-Dichloropropene	5 ug/mL
							trans-1,4-Dichloro-2-butene	5 ug/mL
							Trichloroethene	5 ug/mL
							1-Chlorohexane	4 ug/mL
							2-Pentanone	16 ug/mL
							sec-Butyl Alcohol	120 ug/mL
.MV-Gas A_00161	08/28/23	07/26/23	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00022	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723_00018	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
..MV-569722_00022	08/31/25		RESTEK, Lot A0189184		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
..MV-569723_00018	01/31/26		RESTEK, Lot A0193735		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
.MV-MegaMainA_00092	08/14/23	07/14/23	P&T Methanol, Lot 181124	25 mL	MV-568720_00046	1250 uL	Acrolein	987.5 ug/mL
					MV-569721_00015	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724_00035	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727_00023	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992_00015	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver

Job No.: 280-179478-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					MV-CUS17739.s_00011	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
..MV-568720_00046	07/31/24		RESTEK, Lot A0193730		(Purchased Reagent)		Acrolein	19750 ug/mL
..MV-569721_00015	01/31/26		RESTEK, Lot A0193494		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
..MV-569724_00035	01/31/24		RESTEK, Lot A0187365		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
..MV-569727_00023	08/31/25		RESTEK, Lot A0189172		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
..MV-571992_00015	09/30/24		RESTEK, Lot A0183568		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..MV-CUS17739.s_00011	05/31/24		Agilent, Lot 6676357.sec		(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
mv-Cent BFB_00004							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							TAH	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					mv-IS/SS Tune_00001	10 mL	BFB	50 ug/mL
.mv-IS/SS Tune_00001	11/30/23		Restek, Lot A0143593		(Purchased Reagent)		BFB	250 ug/mL
mv-Cent BFB_00005							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Total BTEX	
							Trihalomethanes, Total	
							Xylenes, Total	
					mv-IS/SS Tune_00001	10 mL	BFB	50 ug/mL
.mv-IS/SS Tune_00001	11/30/23		Restek, Lot A0143593		(Purchased Reagent)		BFB	250 ug/mL
mv-Cent IS_00006	07/31/23	02/24/20	P&T Methanol, Lot 1996628	5 mL	MV-568718-D_00016	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.MV-568718-D_00016	07/31/23		RESTEK, Lot A0139459		(Purchased Reagent)		1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5	250 ug/mL
							Fluorobenzene	250 ug/mL
mv-Cent IS_00007	07/31/23	05/20/22	P&T Methanol, Lot 1996628	5 mL	mv-30241_00010	0.1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.mv-30241_00010	01/31/27		Restek, Lot A0180349		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
MV-Gas A_00159	08/18/23	07/18/23	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00022	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.MV-569722_00022	08/31/25		RESTEK, Lot A0189184		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
MV-Gas A_00160	08/28/23	07/26/23	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00022	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723_00018	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
.MV-569722_00022	08/31/25		RESTEK, Lot A0189184		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.MV-569723_00018	01/31/26		RESTEK, Lot A0193735		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
MV-Gas A_00161	08/28/23	07/26/23	P&T Methanol, Lot 198123	12.5 mL	MV-569722_00022	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723_00018	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
.MV-569722_00022	08/31/25		RESTEK, Lot A0189184		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.MV-569723_00018	01/31/26		RESTEK, Lot A0193735		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
MV-Gas B_00141	08/14/23	07/14/23	P&T Methanol, Lot ea1899-us	12.5 mL	MV-569722.sec_00017	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Dichlorofluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
					MV-569723.sec_00015	1250 uL	2-Chloroethyl vinyl ether	250 ug/mL
.MV-569722.sec_00017	05/31/26		RESTEK, Lot A0197640		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
.MV-569723.sec_00015	01/31/26		RESTEK, Lot A0193808		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
MV-Gas B_00142	08/28/23	07/26/23	P&T Methanol, Lot ea1899-us	12.5 mL	MV-569722.sec_00017	1250 uL	Bromomethane	250 ug/mL
							Chloroethane	250 ug/mL
							Chloromethane	250 ug/mL
							Dichlorodifluoromethane	250 ug/mL
							Trichlorofluoromethane	250 ug/mL
							Vinyl chloride	250 ug/mL
.MV-569722.sec_00017	05/31/26		RESTEK, Lot A0197640		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
mv-IS_SS_00036	04/23/22	03/23/22	P&T Methanol, Lot 198123	50 mL	MV-567650_00029	1000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.MV-567650_00029	05/31/26		Restek, Lot A0172587		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
mv-IS_SS_00064	09/25/23	06/23/23	P&T Methanol, Lot 198123	50 mL	mv-30241_00012	1000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
					MV-567650_00030	1000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.mv-30241_00012	05/31/27		Restek, Lot A0185733		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
.MV-567650_00030	05/31/26		Restek, Lot A0172587		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
mv-IS_SS_00066	10/25/23	07/25/23	P&T Methanol, Lot 198123	50 mL	mv-30241_00012	1000 uL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MV-567650_00030	1000 uL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.mv-30241_00012	05/31/27		Restek, Lot A0185733		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
.MV-567650_00030	05/31/26		Restek, Lot A0172587		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MV-MegaMain B_00088	08/21/23	07/19/23	P&T Methanol, Lot 181124	25 mL	MV-568720.sec_00039	1250 uL	Acrolein	987.5 ug/mL
					MV-569721.sec_00010	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724.sec_00036	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727.sec_00012	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992.sec_00007	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluor oethane	100 ug/mL
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
					MV-CUS17739_00015	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
.MV-568720.sec_00039	08/31/24		RESTEK, Lot A0194755		(Purchased Reagent)		Acrolein	19750 ug/mL
.MV-569721.sec_00010	04/30/25		RESTEK, Lot A0184721		(Purchased Reagent)		2-Butanone (MEK)	12500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
							Acetone	12500 ug/mL
.MV-569724.sec_00036	04/30/24		RESTEK, Lot A0190670		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
.MV-569727.sec_00012	03/21/25		RESTEK, Lot A0182847		(Purchased Reagent)		Cyclohexanone	25000 ug/mL
.MV-571992.sec_00007	06/30/23		RESTEK, Lot A0167172		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.MV-CUS17739_00015	12/31/24		Agilent, Lot 6712667		(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
MV-MegaMain B_00088	08/21/23	07/19/23	P&T Methanol, Lot 181124	25 mL	MV-571992.sec_00007	1000 uL	Xylenes, Total	200 ug/mL
.MV-571992.sec_00007	06/30/23		RESTEK, Lot A0167172		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
MV-MegaMainA_00092	08/14/23	07/14/23	P&T Methanol, Lot 181124	25 mL	MV-568720_00046	1250 uL	Acrolein	987.5 ug/mL
					MV-569721_00015	800 uL	2-Butanone (MEK)	400 ug/mL
							2-Hexanone	400 ug/mL
							4-Methyl-2-pentanone (MIBK)	400 ug/mL
							Acetone	400 ug/mL
					MV-569724_00035	1000 uL	Vinyl acetate	200 ug/mL
					MV-569727_00023	3000 uL	Cyclohexanone	3000 ug/mL
					MV-571992_00015	1000 uL	1,1,1,2-Tetrachloroethane	100 ug/mL
							1,1,1-Trichloroethane	100 ug/mL
							1,1,2,2-Tetrachloroethane	100 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	100 ug/mL
							1,1-Dichloroethane	100 ug/mL
							1,1-Dichloroethene	100 ug/mL
							1,1-Dichloropropene	100 ug/mL
							1,2,3-Trichlorobenzene	100 ug/mL
							1,2,3-Trichloropropane	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2,4-Trimethylbenzene	100 ug/mL
							1,2-Dibromo-3-Chloropropane	100 ug/mL
							1,2-Dibromoethane	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Dichloroethane	100 ug/mL
							1,2-Dichloropropane	100 ug/mL
							1,3,5-Trimethylbenzene	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,3-Dichloropropane	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	2000 ug/mL
							2,2-Dichloropropane	100 ug/mL
							2-Chlorotoluene	100 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							4-Chlorotoluene	100 ug/mL
							4-Isopropyltoluene	100 ug/mL
							Acrylonitrile	1000 ug/mL
							Allyl chloride	100 ug/mL
							Benzene	100 ug/mL
							Bromobenzene	100 ug/mL
							Bromoform	100 ug/mL
							Carbon disulfide	100 ug/mL
							Carbon tetrachloride	100 ug/mL
							Chlorobenzene	100 ug/mL
							Chlorobromomethane	100 ug/mL
							Chlorodibromomethane	100 ug/mL
							Chloroform	100 ug/mL
							cis-1,2-Dichloroethene	100 ug/mL
							cis-1,3-Dichloropropene	100 ug/mL
							Cyclohexane	100 ug/mL
							Dibromomethane	100 ug/mL
							Dichlorobromomethane	100 ug/mL
							Ethyl ether	100 ug/mL
							Ethyl methacrylate	100 ug/mL
							Ethylbenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexane	100 ug/mL
							Iodomethane	100 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropylbenzene	100 ug/mL
							m-Xylene & p-Xylene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver

Job No.: 280-179478-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl acetate	200 ug/mL
							Methyl tert-butyl ether	100 ug/mL
							Methylcyclohexane	100 ug/mL
							Methylene Chloride	100 ug/mL
							n-Butylbenzene	100 ug/mL
							n-Heptane	100 ug/mL
							N-Propylbenzene	100 ug/mL
							Naphthalene	100 ug/mL
							o-Xylene	100 ug/mL
							sec-Butylbenzene	100 ug/mL
							Styrene	100 ug/mL
							tert-Butylbenzene	100 ug/mL
							Tetrachloroethene	100 ug/mL
							Tetrahydrofuran	200 ug/mL
							Toluene	100 ug/mL
							trans-1,2-Dichloroethene	100 ug/mL
							trans-1,3-Dichloropropene	100 ug/mL
							trans-1,4-Dichloro-2-butene	100 ug/mL
							Trichloroethene	100 ug/mL
.MV-568720_00046	07/31/24		RESTEK, Lot A0193730		MV-CUS17739.s_00011	2000 uL	1-Chlorohexane	80 ug/mL
							2-Pentanone	320 ug/mL
							sec-Butyl Alcohol	2400 ug/mL
.MV-569721_00015	01/31/26		RESTEK, Lot A0193494				Acrolein	19750 ug/mL
							2-Butanone (MEK)	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone (MIBK)	12500 ug/mL
.MV-569724_00035	01/31/24		RESTEK, Lot A0187365				Acetone	12500 ug/mL
							Vinyl acetate	5000 ug/mL
.MV-569727_00023	08/31/25		RESTEK, Lot A0189172				Cyclohexanone	25000 ug/mL
.MV-571992_00015	09/30/24		RESTEK, Lot A0183568				1,1,1,2-Tetrachloroethane	2500 ug/mL
							1,1,1-Trichloroethane	2500 ug/mL
							1,1,2,2-Tetrachloroethane	2500 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2500 ug/mL
							1,1,2-Trichloroethane	2500 ug/mL
							1,1-Dichloroethane	2500 ug/mL
							1,1-Dichloroethene	2500 ug/mL
							1,1-Dichloropropene	2500 ug/mL
							1,2,3-Trichlorobenzene	2500 ug/mL
							1,2,3-Trichloropropane	2500 ug/mL
							1,2,4-Trichlorobenzene	2500 ug/mL
							1,2,4-Trimethylbenzene	2500 ug/mL
							1,2-Dibromo-3-Chloropropane	2500 ug/mL
							1,2-Dibromoethane	2500 ug/mL
							1,2-Dichlorobenzene	2500 ug/mL
							1,2-Dichloroethane	2500 ug/mL
							1,2-Dichloropropane	2500 ug/mL
							1,3,5-Trimethylbenzene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	2500 ug/mL
							1,3-Dichloropropane	2500 ug/mL
							1,4-Dichlorobenzene	2500 ug/mL
							1,4-Dioxane	50000 ug/mL
							2,2-Dichloropropane	2500 ug/mL
							2-Chlorotoluene	2500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							4-Chlorotoluene	2500 ug/mL
							4-Isopropyltoluene	2500 ug/mL
							Acrylonitrile	25000 ug/mL
							Allyl chloride	2500 ug/mL
							Benzene	2500 ug/mL
							Bromobenzene	2500 ug/mL
							Bromoform	2500 ug/mL
							Carbon disulfide	2500 ug/mL
							Carbon tetrachloride	2500 ug/mL
							Chlorobenzene	2500 ug/mL
							Chlorobromomethane	2500 ug/mL
							Chlorodibromomethane	2500 ug/mL
							Chloroform	2500 ug/mL
							cis-1,2-Dichloroethene	2500 ug/mL
							cis-1,3-Dichloropropene	2500 ug/mL
							Cyclohexane	2500 ug/mL
							Dibromomethane	2500 ug/mL
							Dichlorobromomethane	2500 ug/mL
							Ethyl ether	2500 ug/mL
							Ethyl methacrylate	2500 ug/mL
							Ethylbenzene	2500 ug/mL
							Hexachlorobutadiene	2500 ug/mL
							Hexane	2500 ug/mL
							Iodomethane	2500 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropylbenzene	2500 ug/mL
							m-Xylene & p-Xylene	2500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl tert-butyl ether	2500 ug/mL
							Methylcyclohexane	2500 ug/mL
							Methylene Chloride	2500 ug/mL
							n-Butylbenzene	2500 ug/mL
							n-Heptane	2500 ug/mL
							N-Propylbenzene	2500 ug/mL
							Naphthalene	2500 ug/mL
							o-Xylene	2500 ug/mL
							sec-Butylbenzene	2500 ug/mL
							Styrene	2500 ug/mL
							tert-Butylbenzene	2500 ug/mL
							Tetrachloroethene	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	2500 ug/mL
							trans-1,2-Dichloroethene	2500 ug/mL
							trans-1,3-Dichloropropene	2500 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
							Trichloroethene	2500 ug/mL
.MV-CUS17739.s_00011	05/31/24		Agilent, Lot 6676357.sec		(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
							2-Pentanone	4000 ug/mL
							sec-Butyl Alcohol	30000 ug/mL
MV-MegaMainA_00092	08/14/23	07/14/23	P&T Methanol, Lot 181124	25 mL	MV-571992_00015	1000 uL	Xylenes, Total	200 ug/mL
.MV-571992_00015	09/30/24		RESTEK, Lot A0183568		(Purchased Reagent)		Xylenes, Total	5000 ug/mL
MV-Supp A_00064	04/02/22	03/02/22	P&T Methanol, Lot 199628	30 mL	mv-570808_00013	600 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Chloroprene	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					mv-570809_00011	600 uL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					mv-571993_00007	600 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					mv-571994_00008	900 uL	Ethanol	3000 ug/mL
					mv-VO-TAOH-5_00013	3000 uL	cis-1,4-Dichloro-2-butene	100 ug/mL
.mv-570808_00013	04/30/23		Restek, Lot A0177095		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Chloroprene	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.mv-570809_00011	12/31/22		Restek, Lot A0173205		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
.mv-571993_00007	06/30/23		RESTEK, Lot A0172903		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.mv-571994_00008	03/31/24		RESTEK, Lot A0169978		(Purchased Reagent)		Ethanol	100000 ug/mL
.mv-VO-TAOH-5_00013	06/12/22		SPEX, Lot CP211214011		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	1000 ug/mL
MV-Supp A_00076	01/16/23	12/13/22	P&T Methanol, Lot 199628	20 mL	mv-570808_00014	400 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Nitropropane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver

Job No.: 280-179478-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroprene	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					mv-570809_00012	400 uL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					mv-571993_00008	400 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					mv-571994_00005	600 uL	Ethanol	3000 ug/mL
					Z-020209-01_00001	2000 uL	cis-1,4-Dichloro-2-butene	100 ug/mL
.mv-570808_00014	11/30/23		Restek, Lot A0184916		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Chloroprene	2500 ug/mL
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.mv-570809_00012	07/31/23		Restek, Lot A0180509		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
.mv-571993_00008	03/31/24		RESTEK, Lot A0183035		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.mv-571994_00005	03/31/24		RESTEK, Lot A0169978		(Purchased Reagent)		Ethanol	100000 ug/mL
.Z-020209-01_00001	08/30/24		CPI, Lot 488066		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	1000 ug/mL
MV-Supp A_00082	07/31/23	05/10/23	P&T Methanol, Lot 199628	20 mL	mv-570808_00015	400 uL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
					mv-570809_00013	400 uL	Methyl methacrylate	100 ug/mL
					mv-571993_00008	400 uL	Acetonitrile	500 ug/mL
							Propionitrile	500 ug/mL
.mv-570808_00015	11/30/23		Restek, Lot A0184916		(Purchased Reagent)		Chloroprene	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
.mv-570809_00013	03/31/24		Restek, Lot A0189215		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
.mv-571993_00008	03/31/24		RESTEK, Lot A0183035		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL
MV-Supp A_00083	08/31/23	06/28/23	P&T Methanol, Lot 199628	20 mL	mv-570808_00015	400 uL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
					mv-570809_00013	400 uL	Methyl methacrylate	100 ug/mL
					mv-571993_00008	400 uL	Acetonitrile	500 ug/mL
							Propionitrile	500 ug/mL
.mv-570808_00015	11/30/23		Restek, Lot A0184916		(Purchased Reagent)		Chloroprene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver

Job No.: 280-179478-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.mv-570809_00013	03/31/24		Restek, Lot A0189215		(Purchased Reagent)		Methacrylonitrile	25000 ug/mL
.mv-571993_00008	03/31/24		RESTEK, Lot A0183035		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
							Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL
MV-Supp B_00048	04/15/22	03/15/22	P&T Methanol, Lot 127999	20 mL	mv-570808.sec_00007	400 uL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
					mv-570809.sec_00008	400 uL	Methyl methacrylate	100 ug/mL
					mv-571993.sec_00007	400 uL	Acetonitrile	500 ug/mL
.mv-570808.sec_00007	10/31/22		Restek, Lot A0171439		(Purchased Reagent)		Propionitrile	500 ug/mL
							Chloroprene	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
.mv-570809.sec_00008	10/31/22		Restek, Lot A0171207		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
.mv-571993.sec_00007	03/31/23		RESTEK, Lot A0170862		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL
MV-Supp B_00057	01/03/23	12/02/22	P&T Methanol, Lot 127999	20 mL	mv-570808.sec_00008	400 uL	Chloroprene	50 ug/mL
							Methacrylonitrile	500 ug/mL
					mv-570809.sec_00009	400 uL	Methyl methacrylate	100 ug/mL
					mv-571993.sec_00007	400 uL	Acetonitrile	500 ug/mL
.mv-570808.sec_00008	10/31/23		Restek, Lot A0183834		(Purchased Reagent)		Propionitrile	500 ug/mL
							Chloroprene	2500 ug/mL
							Methacrylonitrile	25000 ug/mL
.mv-570809.sec_00009	12/31/22		Restek, Lot A0171207		(Purchased Reagent)		Methyl methacrylate	5000 ug/mL
.mv-571993.sec_00007	03/31/23		RESTEK, Lot A0170862		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Propionitrile	25000 ug/mL
MV-Supp B_00063	10/31/23	05/11/23	P&T Methanol, Lot 127999	20 mL	mv-570808.sec_00008	400 uL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Chloroprene	50 ug/mL
							Isopropyl alcohol	500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	1250 ug/mL
					mv-570809.sec_00010	400 uL	Ethyl acetate	100 ug/mL
							Methyl methacrylate	100 ug/mL
					mv-571993.sec_00008	400 uL	Acetonitrile	500 ug/mL
							Isopropyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					mv-571994.sec_00007	600 uL	Ethanol	3000 ug/mL
					Z-020209-01.b_00001	2000 uL	cis-1,4-Dichloro-2-butene	100 ug/mL
.mv-570808.sec_00008	10/31/23		Restek, Lot A0183834		(Purchased Reagent)		1,2,3-Trimethylbenzene	2500 ug/mL
							1,3,5-Trichlorobenzene	2500 ug/mL
							2-Nitropropane	5000 ug/mL
							Chloroprene	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	25000 ug/mL
							Methacrylonitrile	25000 ug/mL
							n-Butanol	62500 ug/mL
.mv-570809.sec_00010	10/31/23		Restek, Lot A0183813		(Purchased Reagent)		Ethyl acetate	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
.mv-571993.sec_00008	09/30/24		RESTEK, Lot A0189867		(Purchased Reagent)		Acetonitrile	25000 ug/mL
							Isopropyl ether	2500 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	2500 ug/mL
							Tert-butyl ethyl ether	2500 ug/mL
.mv-571994.sec_00007	06/30/25		RESTEK, Lot A0186688		(Purchased Reagent)		Ethanol	100000 ug/mL
.Z-020209-01.b_00001	08/30/24		CPI, Lot 488067		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	1000 ug/mL

Reagent

mv-30241_00010



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30241 Lot No.: A0180349
Description : 8260A Internal Standard Mix
8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : January 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Fluorobenzene CAS # 462-06-6 (Lot BCBZ5549) Purity 99%	2,500.6 µg/mL	+/- 14.5387 µg/mL Gravimetric +/- 140.2062 µg/mL Unstressed +/- 143.4868 µg/mL Stressed
2	Chlorobenzene-d5 CAS # 3114-55-4 (Lot PR-29571) Purity 99%	2,500.8 µg/mL	+/- 14.5399 µg/mL Gravimetric +/- 140.2174 µg/mL Unstressed +/- 143.4983 µg/mL Stressed
3	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-30447) Purity 99%	2,500.2 µg/mL	+/- 14.5364 µg/mL Gravimetric +/- 140.1837 µg/mL Unstressed +/- 143.4639 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*Revd
4/2/22
JK*

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

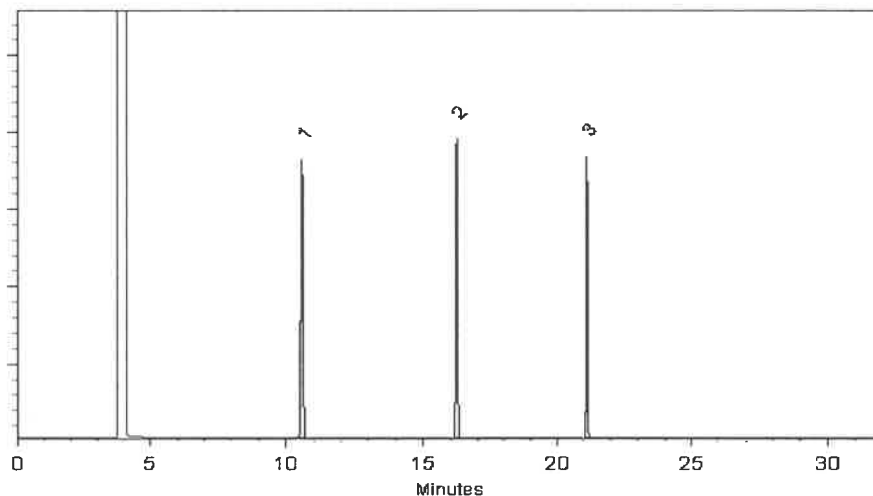
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Jan-2022

Balance: B707717271

Marlene Cowan - Operations Tech I

Date Passed: 10-Jan-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-30241_00012



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30241 Lot No.: A0185733
Description : 8260A Internal Standard Mix
8260A Internal Standard Mix 2,500 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : May 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Fluorobenzene CAS # 462-06-6 (Lot BCBZ5549) Purity 99%	2,504.0 µg/mL	+/- 14.5585 µg/mL Gravimetric +/- 140.3968 µg/mL Unstressed +/- 143.6819 µg/mL Stressed
2	Chlorobenzene-d5 CAS # 3114-55-4 (Lot PR-29571) Purity 99%	2,508.0 µg/mL	+/- 14.5817 µg/mL Gravimetric +/- 140.6211 µg/mL Unstressed +/- 143.9114 µg/mL Stressed
3	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-30447) Purity 99%	2,500.6 µg/mL	+/- 14.5387 µg/mL Gravimetric +/- 140.2062 µg/mL Unstressed +/- 143.4868 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*Recd
9/8
8/11/22*

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

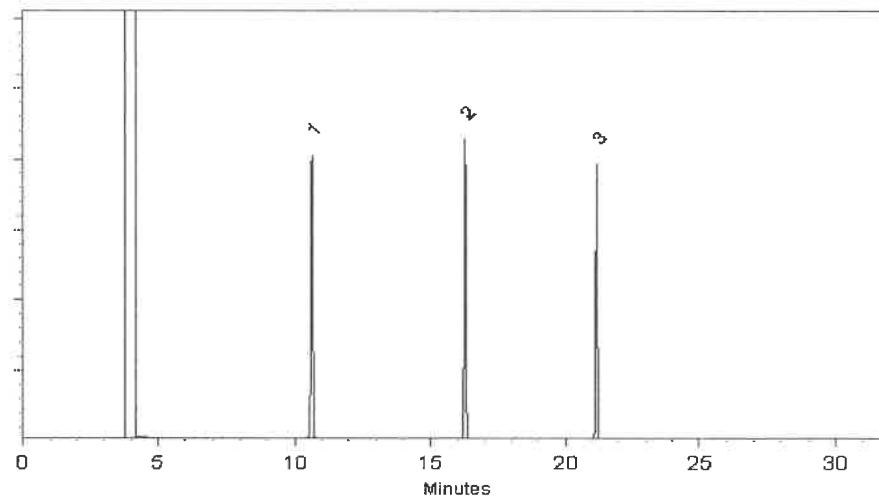
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 26-May-2022

Balance: B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 31-May-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-567650_00029



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0172587

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

Rec'd
11/15/21
Gm

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dibromofluoromethane CAS # 1868-53-7 (Lot 012021) Purity 99%	2,510.9 µg/mL	+/- 14.5983 µg/mL Gravimetric +/- 140.7809 µg/mL Unstressed +/- 144.0750 µg/mL Stressed
2	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot PR-29377) Purity 99%	2,518.0 µg/mL	+/- 14.6399 µg/mL Gravimetric +/- 141.1818 µg/mL Unstressed +/- 144.4852 µg/mL Stressed
3	Toluene-d8 CAS # 2037-26-5 (Lot PR-31750) Purity 99%	2,500.4 µg/mL	+/- 14.5375 µg/mL Gravimetric +/- 140.1949 µg/mL Unstressed +/- 143.4753 µg/mL Stressed
4	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KO) Purity 99%	2,520.9 µg/mL	+/- 14.6567 µg/mL Gravimetric +/- 141.3444 µg/mL Unstressed +/- 144.6516 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

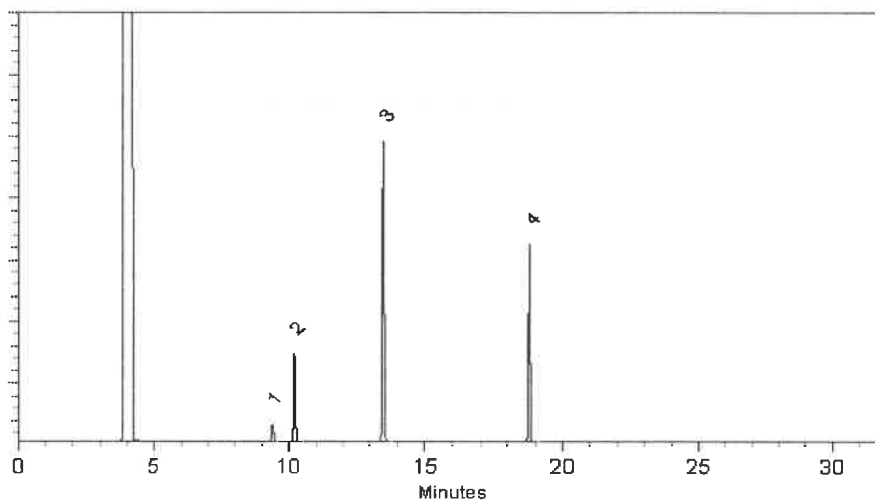
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 19-May-2021

Balance: B707717271

Alexis Shelow - Operations Tech I

Date Passed: 21-May-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-567650_00030



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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0172587

Description : 8260 Surrogate Standard
8260 Surrogate Standard 2,500µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2026 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dibromofluoromethane CAS # 1868-53-7 (Lot 012021) Purity 99%	2,510.9 µg/mL	+/- 14.5983 µg/mL Gravimetric +/- 140.7809 µg/mL Unstressed +/- 144.0750 µg/mL Stressed
2	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot PR-29377) Purity 99%	2,518.0 µg/mL	+/- 14.6399 µg/mL Gravimetric +/- 141.1818 µg/mL Unstressed +/- 144.4852 µg/mL Stressed
3	Toluene-d8 CAS # 2037-26-5 (Lot PR-31750) Purity 99%	2,500.4 µg/mL	+/- 14.5375 µg/mL Gravimetric +/- 140.1949 µg/mL Unstressed +/- 143.4753 µg/mL Stressed
4	1-Bromo-4-fluorobenzene (BFB) CAS # 460-00-4 (Lot 20401KO) Purity 99%	2,520.9 µg/mL	+/- 14.6567 µg/mL Gravimetric +/- 141.3444 µg/mL Unstressed +/- 144.6516 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*Rec'd
4/2/22
JH*

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

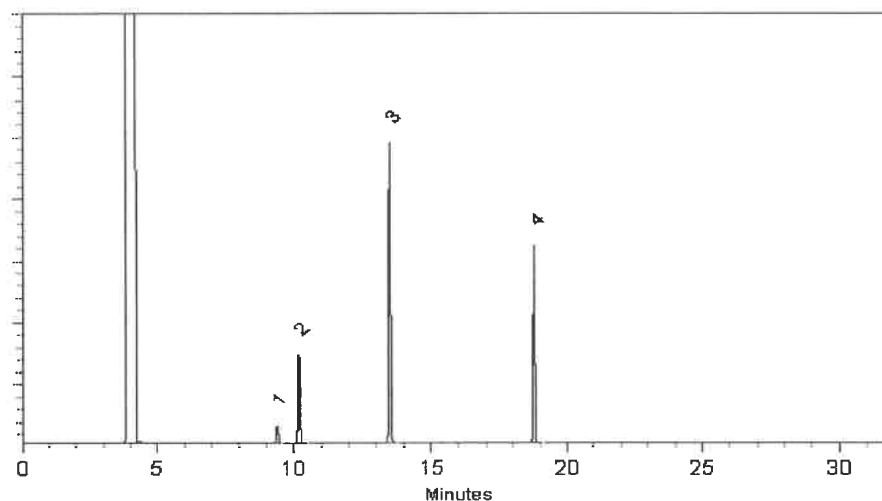
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 19-May-2021

Balance: B707717271

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 21-May-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-568718-D_00016



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568718 **Lot No.:** A0139459

Description : 8260 Internal Standard 2014

8260 Internal Standard 2014 250-5,000µg/mL, P&T Methanol/Water (90:10), 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : July 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 (Lot CD-107) Purity 98%	5,018.0 µg/mL	+/- 29.1735 µg/mL Gravimetric +/- 107.4354 µg/mL Unstressed +/- 110.5588 µg/mL Stressed
2	2-Butanone-d5 CAS # 24313-50-6 (Lot M-276) Purity 99%	1,253.8 µg/mL	+/- 7.2897 µg/mL Gravimetric +/- 26.8440 µg/mL Unstressed +/- 27.6244 µg/mL Stressed
3	Fluorobenzene CAS # 462-06-6 (Lot BCBK8171V) Purity 99%	250.1 µg/mL	+/- 1.4575 µg/mL Gravimetric +/- 5.3556 µg/mL Unstressed +/- 5.5112 µg/mL Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 (Lot I-19942) Purity 99%	5,004.8 µg/mL	+/- 29.0965 µg/mL Gravimetric +/- 107.1519 µg/mL Unstressed +/- 110.2670 µg/mL Stressed
5	Chlorobenzene-d5 CAS # 3114-55-4 (Lot PR-23926) Purity 99%	250.4 µg/mL	+/- 1.4589 µg/mL Gravimetric +/- 5.3609 µg/mL Unstressed +/- 5.5167 µg/mL Stressed
6	1,4-Dichlorobenzene-d4 CAS # 3855-82-1 (Lot PR-18488) Purity 99%	250.6 µg/mL	+/- 1.4604 µg/mL Gravimetric +/- 5.3663 µg/mL Unstressed +/- 5.5222 µg/mL Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

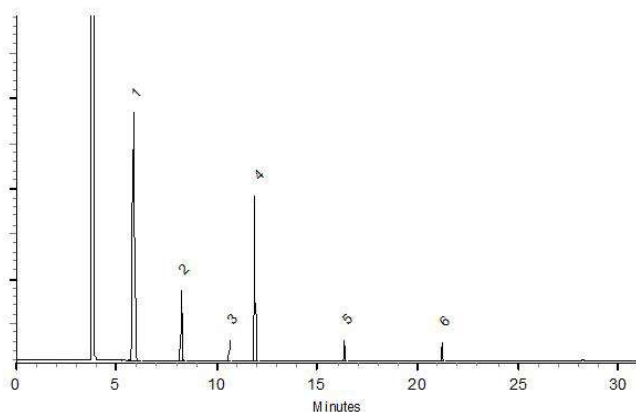
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Matt Fragassi - Mix Technician

Date Mixed: 09-Jul-2018

Balance: 1128342314


Justine Albertson - Operations Tech-ARM QC

Date Passed: 10-Aug-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MV-568720.sec_00039



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720.SEC Lot No.: A0194755
Description : 8260 List 1/Std #5 Acrolein High
8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul
Container Size : 2-mL Pkg Amt: > 1 mL
Expiration Date : August 31, 2024 Storage: -20°C or colder
Handling: This product is photosensitive. Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Acrolein	107-02-8	SEC RD211004S	98%	19,750.9 µg/mL	+/- 580.2420

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

5/5/23

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

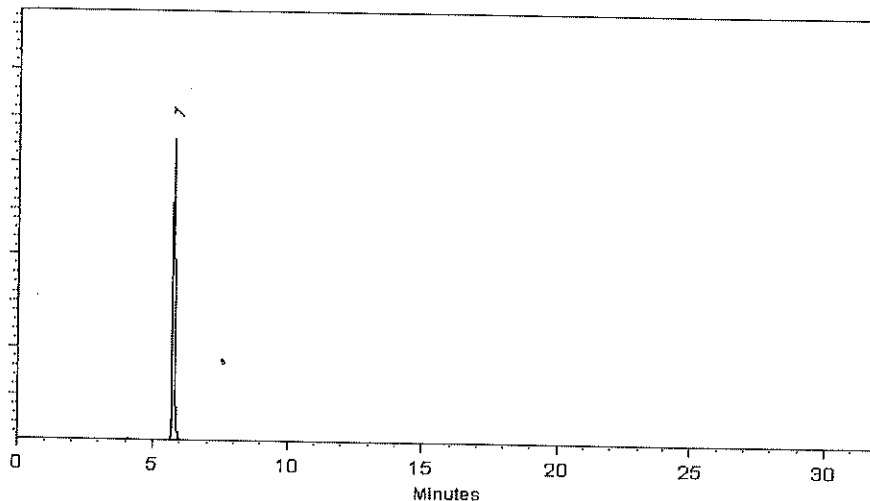
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2023

Balance Serial # 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 20-Feb-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-568720_00046



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 Lot No.: A0193730
Description : 8260 List 1/Std #5 Acrolein High
8260 List 1/Std #5 Acrolein High 19,750µg/mL, Water, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2024 Storage: -20°C or colder
Handling: This product is photosensitive. Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acrolein	107-02-8	RD221019	99%	19,924.7 µg/mL	+/- 585.3463

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Water
CAS # 7732-18-5
Purity 99%

Handwritten signature and date: 5/5/23

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

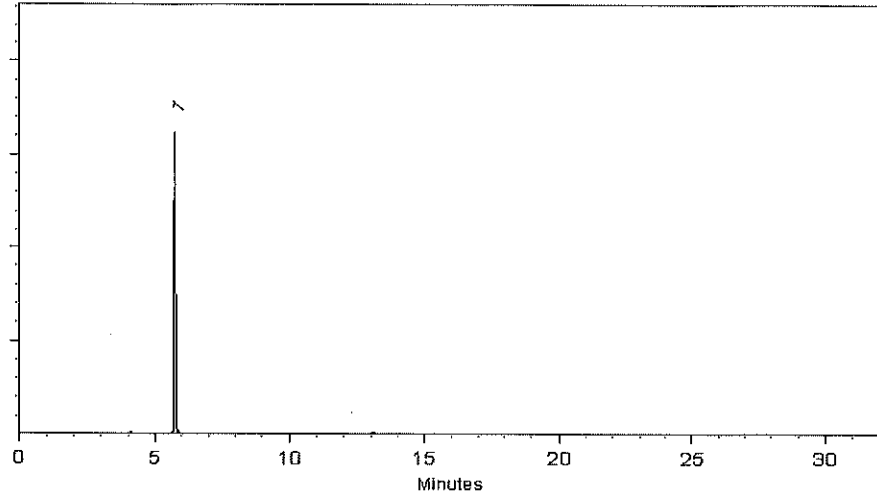
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 19-Jan-2023

Balance Serial # 1128360905

Christie Mills - Operations Tech II - ARM QC

Date Passed: 20-Feb-2023

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Certificate #FM 80397

Reagent

MV-569721.sec_00010



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721.SEC **Lot No.:** A0184721

Description : 8260 List 1/ Std #2 Ketones (2015)
8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetone CAS # 67-64-1.SEC (Lot T20G008) Purity 99%	12,520.4 µg/mL	+/- 73.3097 µg/mL Gravimetric +/- 755.4610 µg/mL Unstressed +/- 757.2544 µg/mL Stressed
2	2-Butanone (MEK) CAS # 78-93-3.SEC (Lot HDLUO) Purity 99%	12,520.8 µg/mL	+/- 73.3120 µg/mL Gravimetric +/- 755.4852 µg/mL Unstressed +/- 757.2786 µg/mL Stressed
3	4-Methyl-2-pentanone (MIBK) CAS # 108-10-1.SEC (Lot E29T040) Purity 99%	12,514.8 µg/mL	+/- 73.2769 µg/mL Gravimetric +/- 755.1231 µg/mL Unstressed +/- 756.9157 µg/mL Stressed
4	2-Hexanone CAS # 591-78-6.SEC (Lot Y3TUO) Purity 99%	12,514.0 µg/mL	+/- 73.2722 µg/mL Gravimetric +/- 755.0749 µg/mL Unstressed +/- 756.8673 µg/mL Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Handwritten signature and date: 12/5/22

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

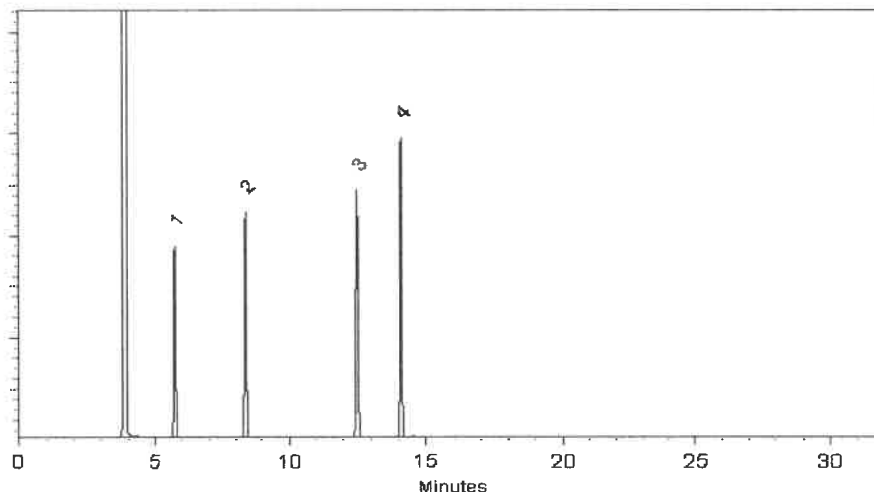
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 29-Apr-2022

Balance: B345965662

Christie Mills - Operations Technician II

Date Passed: 03-May-2022

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Registered Quality System
Certificate #FM 80397

Reagent

MV-569721_00015



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Catalog No. : 569721

Lot No.: A0193494

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL

Expiration Date : January 31, 2026

Pkg Amt: > 1 mL

Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	12,581.8 µg/mL	+/- 434.7671
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	12,578.5 µg/mL	+/- 434.6548
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	12,602.3 µg/mL	+/- 435.4755
4	2-Hexanone	591-78-6	MKCQ6663	99%	12,587.5 µg/mL	+/- 434.9658

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

9/5/23

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psl.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

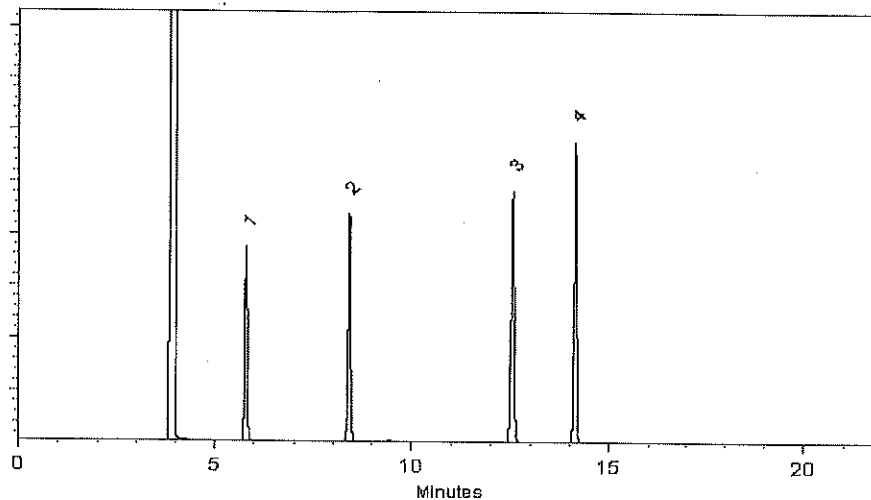
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery
Bethany Lowery - Operations Tech I

Date Mixed: 12-Jan-2023

Balance Serial # B251644995

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 16-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569722.sec_00017



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Catalog No. : 569722.SEC **Lot No.:** A0197640

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8.SEC	28302	99%	2,519.8 µg/mL	+/- 142.0069
2	Chloromethane (methyl chloride)	74-87-3.SEC	00016950	99%	2,503.3 µg/mL	+/- 142.0942
3	Vinyl chloride	75-01-4.SEC	MKBBK6872V	99%	2,508.3 µg/mL	+/- 141.4767
4	1,3-Butadiene	106-99-0.SEC	26996	99%	2,521.0 µg/mL	+/- 142.1930
5	Bromomethane (methyl bromide)	74-83-9.SEC	00017022	99%	2,516.4 µg/mL	+/- 141.9614
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00004202	98%	2,532.0 µg/mL	+/- 143.0282
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14150400	90%	2,502.0 µg/mL	+/- 140.5515
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,524.7 µg/mL	+/- 143.6054

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Rec'd 5/11/23

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

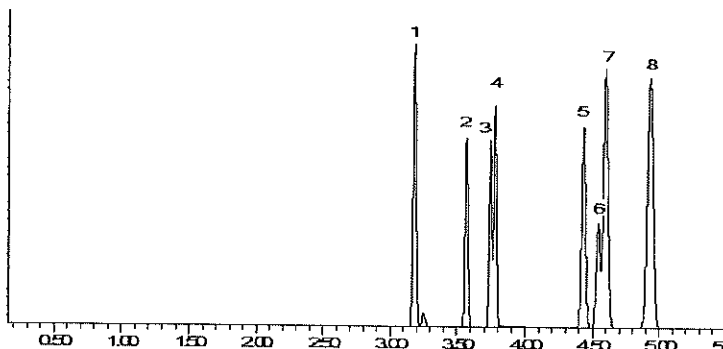
MSD

Split Vent:

25.0 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Lane Kibe
Lane Kibe - Mix Technician

Date Mixed: 02-May-2023 Balance Serial # 1128342314

Marlina Cowan
Marlina Cowan - Operations Tech II ARM QC

Date Passed: 09-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569722_00022



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569722 **Lot No.:** A0189184

Description : 8260 List 1 / Std #3 Gases (2015)

8260 List 1 / Std #3 Gases (2015) 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	Dichlorodifluoromethane (CFC-12)	2,500.3 µg/mL	+/-	18.6878	µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/-	140.6792	µg/mL	Unstressed
	Purity 99%		+/-	143.9483	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,500.0 µg/mL	+/-	17.9318	µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/-	140.5648	µg/mL	Unstressed
	Purity 99%		+/-	143.8357	µg/mL	Stressed
3	Vinyl chloride	2,500.2 µg/mL	+/-	20.7208	µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/-	140.9576	µg/mL	Unstressed
	Purity 99%		+/-	144.2201	µg/mL	Stressed
4	1,3-Butadiene	2,499.9 µg/mL	+/-	18.9759	µg/mL	Gravimetric
	CAS # 106-99-0 (Lot 00019375)		+/-	140.6968	µg/mL	Unstressed
	Purity 99%		+/-	143.9645	µg/mL	Stressed
5	Bromomethane (methyl bromide)	2,500.1 µg/mL	+/-	19.8264	µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/-	140.8262	µg/mL	Unstressed
	Purity 99%		+/-	144.0915	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,500.6 µg/mL	+/-	23.7833	µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/-	141.4639	µg/mL	Unstressed
	Purity 99%		+/-	144.7161	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
	CAS # 75-43-4 (Lot 12841600)		+/-	140.1725	µg/mL	Unstressed
	Purity 99%		+/-	143.4524	µg/mL	Stressed

8	Trichlorofluoromethane (CFC-11)	2,500.3	µg/mL	+/-	18.9529	µg/mL	Gravimetric
	CAS # 75-69-4 (Lot MKCL8411)			+/-	140.7175	µg/mL	Unstressed
	Purity 99%			+/-	143.9858	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

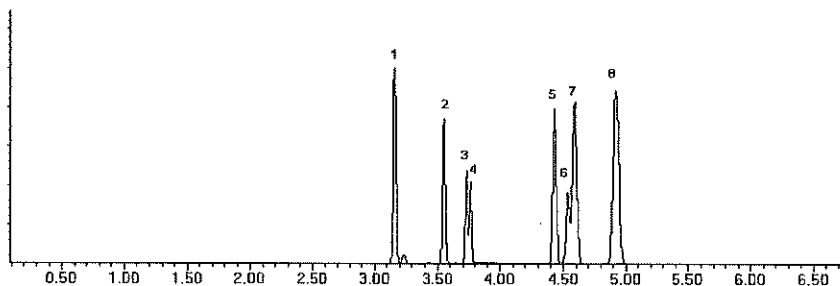
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 31-Aug-2022 **Balance:** B251644995

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 14-Sep-2022

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397

Reagent

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Catalog No. : 569723.SEC Lot No.: A0193808
Description : 8260 List 1 / Std #4 2-CEVE (2015)
8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol,
1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : January 31, 2026 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether	110-75-8.SEC AMBTF		99%	2,513.3 µg/mL	+/- 31.2789

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

level
5/1/23
JH

Quality Confirmation Test

Column:

185m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

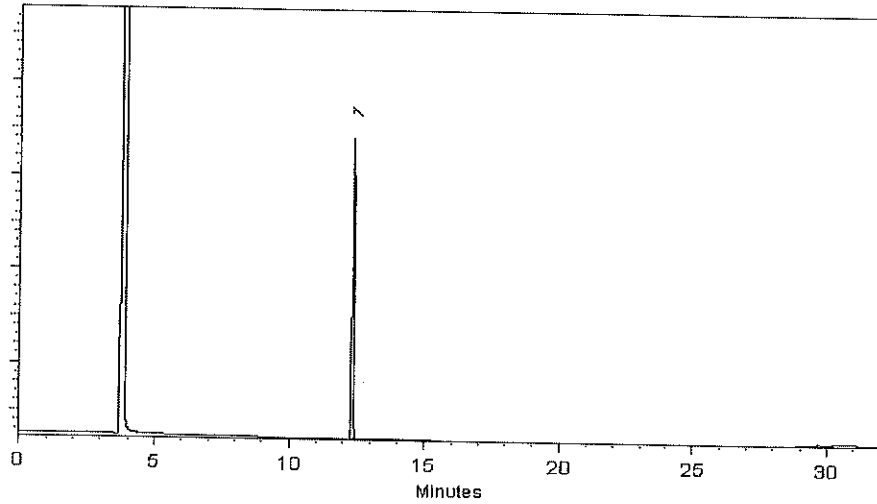
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 20-Jan-2023

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2023

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Certificate #FM 80397

Reagent

MV-569723_00018



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569723

Lot No.: A0193735

Description : 8260 List 1 / Std #4 2-CEVE (2015)

8260 List 1 / Std #4 2-CEVE (2015) 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL

Expiration Date : January 31, 2026

Pkg Amt: > 1 mL

Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Chloroethyl vinyl ether	110-75-8	MKCK6742	99%	2,500.0 µg/mL	+/- 31.1129

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

5/1/23
JW -00018

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

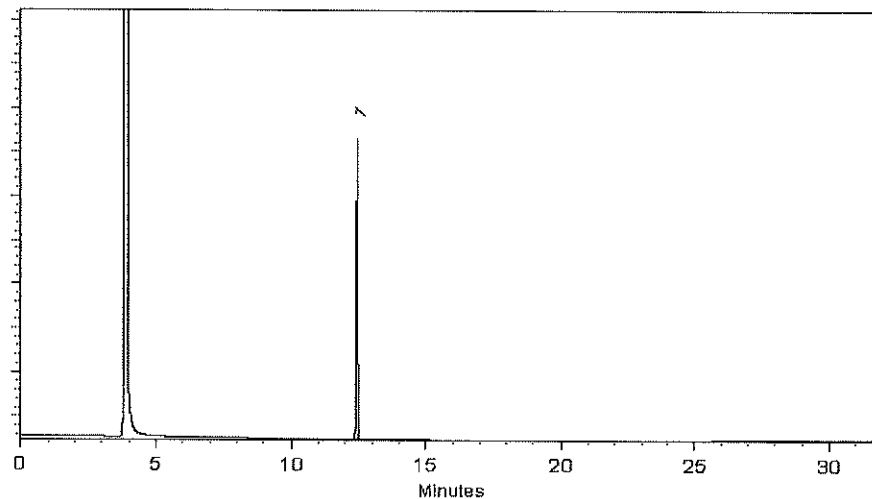
FID

Split Vent:

40 ml/min

Inj. Vol

0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 19-Jan-2023

Balance Serial # B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 23-Jan-2023

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Reagent

MV-569724.sec_00036



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Catalog No. : 569724.SEC **Lot No.:** A0190670

Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)

8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2024 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Vinyl acetate	5,024.0 µg/mL	+/- 29.4836 µg/mL Gravimetric
	CAS # 108-05-4.SEC (Lot 190320CGKJ)		+/- 303.1467 µg/mL Unstressed
	Purity 99%		+/- 303.8663 µg/mL Stressed

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Rec'd 5/4/23

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

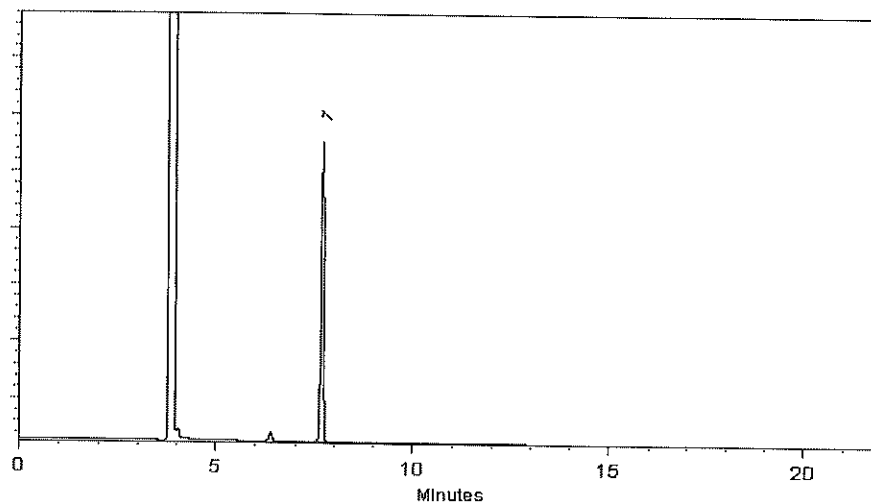
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 18-Oct-2022

Balance: 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-Oct-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569724_00035



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569724 Lot No.: A0187365
Description : 8260 List 1 / Std #6 Vinyl Acetate (2015)
8260 List 1 / Std #6 Vinyl Acetate (2015) 5,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : January 31, 2024 Storage: -20°C or colder
Handling: This product is photosensitive. Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate	5,022.0 µg/mL	+/- 29.4049 µg/mL	Gravimetric
	CAS # 108-05-4 (Lot RD220630)		+/- 303.0195 µg/mL	Unstressed
	Purity 99%		+/- 303.7388 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Rec'd
12/30/22
JH

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

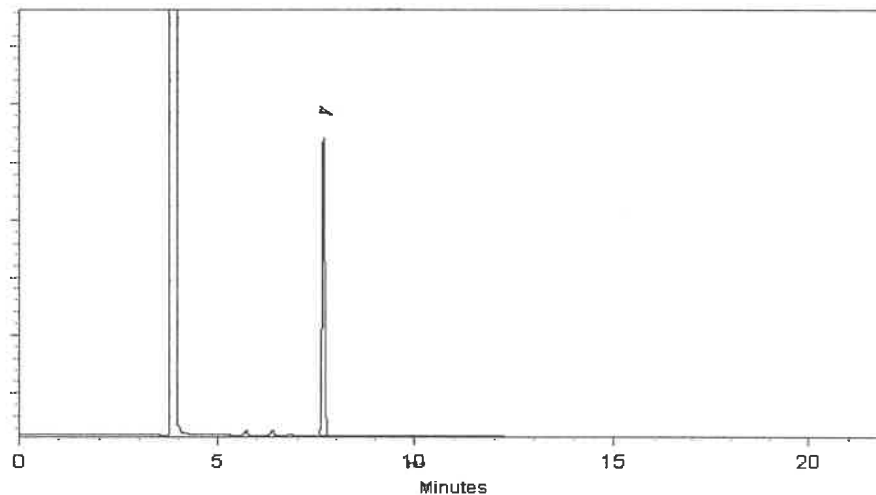
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline

Miranda Kline - Operations Technician I

Date Mixed: 15-Jul-2022

Balance: B707717271

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 21-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569727.sec_00012



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Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569727.SEC **Lot No.:** A0182847
Description : 8260 List 2/ Std #3 Cyclohexanone (2015)
8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Cyclohexanone CAS # 108-94-1.SEC (Lot GA3TF) Purity 99%	25,032.7 µg/mL	+/- 146.5718 µg/mL Gravimetric +/- 1,510.4313 µg/mL Unstressed +/- 1,514.0168 µg/mL Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Rec'd
7-12-22
cas

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

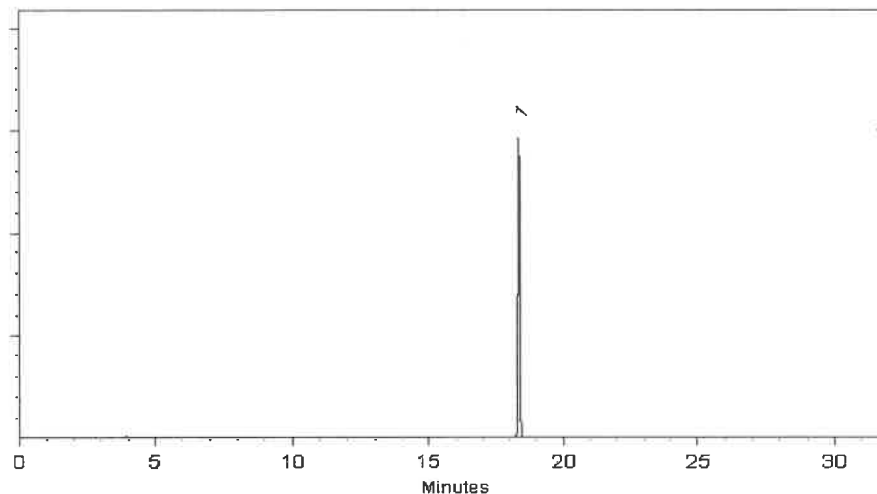
200°C

Det. Temp:

250°C

Det. Type:

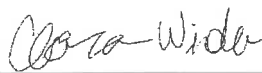
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Jess Hoy - Operations Tech I

Date Mixed: 14-Mar-2022 Balance: 1128342314


Clara Windle - Operations Technician I

Date Passed: 18-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-569727_00023



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569727 Lot No.: A0189172
Description : 8260 List 2/ Std #3 Cyclohexanone (2015)
8260 List 2/ Std #3 Cyclohexanone (2015) 25,000µg/mL, Water,
1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date: August 31, 2025 Storage: 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Cyclohexanone CAS # 108-94-1 (Lot MKCC7732) Purity 99%	25,035.3 µg/mL	+/- 146.5874 µg/mL Gravimetric +/- 1,510.5922 µg/mL Unstressed +/- 1,514.1781 µg/mL Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

Rec'd
5/4/23

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psl.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

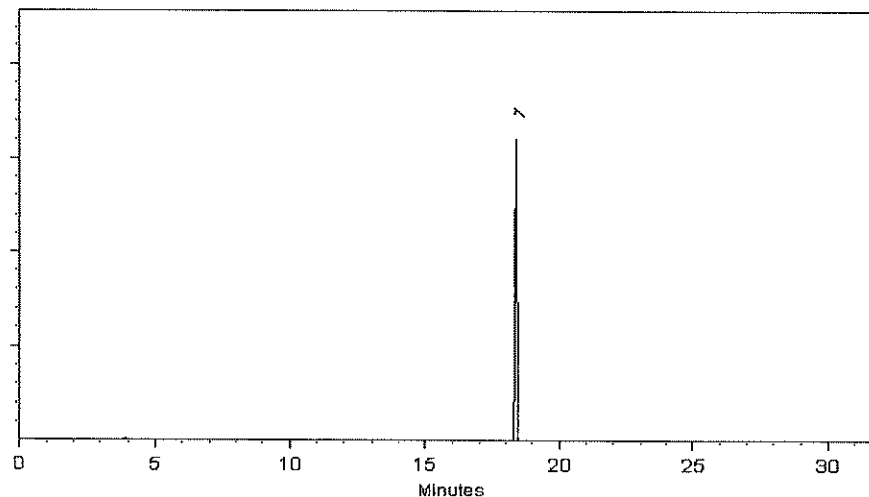
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Nick Yaw

Nick Yaw - Operations Tech I

Date Mixed: 31-Aug-2022

Balance: B442140311

Christie Mills

Christie Mills - Operations Tech II - ARM QC

Date Passed: 02-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570808.sec_00007



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808.SEC **Lot No.:** A0171439

Description : 8260 List 2 / Std #6
8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2022 **Storage:** 0°C or colder

Ship: Ambient

REC'D
11/1/21
Gm

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) CAS # 67-63-0.SEC (Lot TFT5I) Purity 99%	25,183.3 µg/mL	+/- 147.4540 µg/mL +/- 1,245.8875 µg/mL +/- 1,276.8616 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 * (Lot 210413JLM) Purity 99%	2,522.7 µg/mL	+/- 14.8044 µg/mL +/- 124.8071 µg/mL +/- 127.9098 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile CAS # 126-98-7 * (Lot 1012014) Purity 99%	25,147.7 µg/mL	+/- 147.2451 µg/mL +/- 1,244.1230 µg/mL +/- 1,275.0532 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (Isooctane) CAS # 540-84-1.SEC (Lot 8014900) Purity 99%	2,518.0 µg/mL	+/- 14.7770 µg/mL +/- 124.5762 µg/mL +/- 127.6731 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol CAS # 71-36-3.SEC (Lot 6B6UL) Purity 99%	63,095.0 µg/mL	+/- 369.4160 µg/mL +/- 3,121.4777 µg/mL +/- 3,199.0811 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane CAS # 79-46-9.SEC (Lot F43IA) Purity 99%	5,038.0 µg/mL	+/- 29.4986 µg/mL +/- 249.2435 µg/mL +/- 255.4399 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane CAS # 544-10-5.SEC (Lot 8171700) Purity 99%	2,525.0 µg/mL	+/- 14.8181 µg/mL +/- 124.9226 µg/mL +/- 128.0281 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene		2,521.2	µg/mL	+/-	14.7959	µg/mL	Gravimetric
	CAS #	526-73-8.SEC (Lot 11407900)			+/-	124.7352	µg/mL	Unstressed
	Purity	98%			+/-	127.8361	µg/mL	Stressed
9	Benzyl chloride		2,516.3	µg/mL	+/-	14.7673	µg/mL	Gravimetric
	CAS #	100-44-7.SEC (Lot H29N03)			+/-	124.4938	µg/mL	Unstressed
	Purity	99%			+/-	127.5886	µg/mL	Stressed
10	1,3,5-Trichlorobenzene		2,523.0	µg/mL	+/-	14.8064	µg/mL	Gravimetric
	CAS #	108-70-3.SEC (Lot I28U021)			+/-	124.8236	µg/mL	Unstressed
	Purity	99%			+/-	127.9267	µg/mL	Stressed
Solvent: P&T Methanol								
CAS # 67-56-1								
Purity 99%								

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

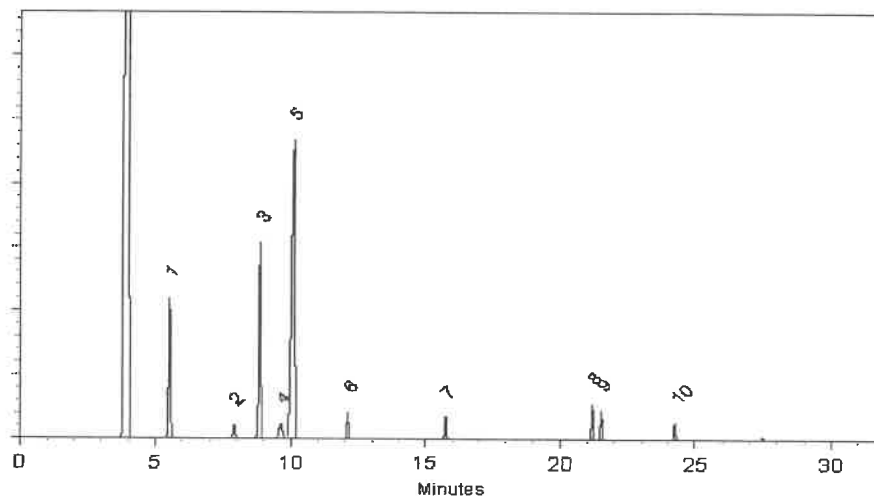
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cory Meyer - Operations Tech I

Date Mixed: 19-Apr-2021

Balance: 1128342314

Alexis Shelow - Operations Tech I

Date Passed: 21-Apr-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570808.sec_00008



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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808.SEC Lot No.: A0183834
Description : 8260 List 2 / Std #6
8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : October 31, 2023 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Propanol (isopropanol) CAS # 67-63-0.SEC (Lot G6HNF) Purity 99%	25,061.5 µg/mL	+/- 146.7406 µg/mL +/- 1,239.8601 µg/mL +/- 1,270.6843 µg/mL	Gravimetric Unstressed Stressed
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 * (Lot 220304JEAN) Purity 99%	2,518.0 µg/mL	+/- 14.7770 µg/mL +/- 124.5762 µg/mL +/- 127.6731 µg/mL	Gravimetric Unstressed Stressed
3	Methacrylonitrile CAS # 126-98-7 * (Lot 1012020) Purity 99%	25,079.5 µg/mL	+/- 146.8460 µg/mL +/- 1,240.7506 µg/mL +/- 1,271.5969 µg/mL	Gravimetric Unstressed Stressed
4	2,2,4-Trimethylpentane (Isooctane) CAS # 540-84-1.SEC (Lot 11566800) Purity 99%	2,509.5 µg/mL	+/- 14.7272 µg/mL +/- 124.1557 µg/mL +/- 127.2422 µg/mL	Gravimetric Unstressed Stressed
5	1-Butanol CAS # 71-36-3.SEC (Lot RSHAH) Purity 99%	62,722.5 µg/mL	+/- 367.2351 µg/mL +/- 3,103.0492 µg/mL +/- 3,180.1943 µg/mL	Gravimetric Unstressed Stressed
6	2-Nitropropane CAS # 79-46-9.SEC (Lot F431A) Purity 99%	5,021.5 µg/mL	+/- 29.4020 µg/mL +/- 248.4272 µg/mL +/- 254.6033 µg/mL	Gravimetric Unstressed Stressed
7	1-Chlorohexane CAS # 544-10-5.SEC (Lot 13075400) Purity 99%	2,515.5 µg/mL	+/- 14.7624 µg/mL +/- 124.4526 µg/mL +/- 127.5464 µg/mL	Gravimetric Unstressed Stressed

8	1,2,3-Trimethylbenzene CAS # 526-73-8.SEC Purity 99%	(Lot 12203300)	2,514.0 µg/mL	+/- 14.7536 +/- 124.3783 +/- 127.4703	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride CAS # 100-44-7.SEC Purity 99%	(Lot H29N03)	2,513.5 µg/mL	+/- 14.7506 +/- 124.3536 +/- 127.4450	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene CAS # 108-70-3.SEC Purity 99%	(Lot I28U021)	2,516.5 µg/mL	+/- 14.7682 +/- 124.5020 +/- 127.5971	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

* Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

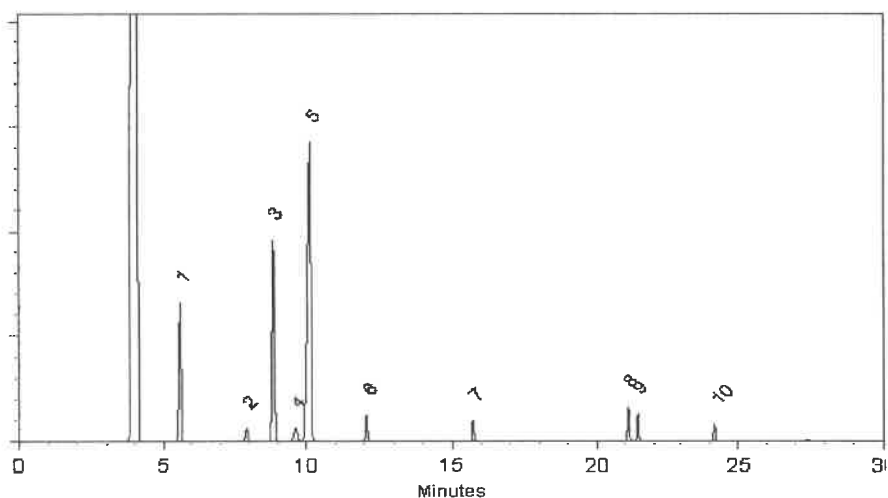
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Katelyn McGlinn
Katelyn McGlinn - Operations Tech I

Date Mixed: 07-Apr-2022 **Balance:** 1127510105

Clara Windle
Clara Windle - Operations Technician I

Date Passed: 12-Apr-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570808_00013



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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 570808

Lot No.: A0177095

Description: 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL

Pkg Amt: > 1 mL

Expiration Date: April 30, 2023

Storage: 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol) CAS # 67-63-0 (Lot SHBH7211) Purity 99%	25,197.0 µg/mL	+/- 147.5340 µg/mL Gravimetric +/- 1,246.5636 µg/mL Unstressed +/- 1,277.5545 µg/mL Stressed
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 (Lot 210413JLM) Purity 99%	2,522.5 µg/mL	+/- 14.8034 µg/mL Gravimetric +/- 124.7989 µg/mL Unstressed +/- 127.9013 µg/mL Stressed
3	Methacrylonitrile CAS # 126-98-7 (Lot 1012020) Purity 99%	25,122.5 µg/mL	+/- 147.0978 µg/mL Gravimetric +/- 1,242.8779 µg/mL Unstressed +/- 1,273.7771 µg/mL Stressed
4	2,2,4-Trimethylpentane (isooctane) CAS # 540-84-1 (Lot MKCF8045) Purity 99%	2,522.5 µg/mL	+/- 14.8034 µg/mL Gravimetric +/- 124.7989 µg/mL Unstressed +/- 127.9013 µg/mL Stressed
5	1-Butanol CAS # 71-36-3 (Lot SHBM5061) Purity 99%	62,707.0 µg/mL	+/- 367.1443 µg/mL Gravimetric +/- 3,102.2823 µg/mL Unstressed +/- 3,179.4084 µg/mL Stressed
6	2-Nitropropane CAS # 79-46-9 (Lot BCCB9352) Purity 97%	5,025.1 µg/mL	+/- 29.4230 µg/mL Gravimetric +/- 248.6045 µg/mL Unstressed +/- 254.7851 µg/mL Stressed
7	1-Chlorohexane CAS # 544-10-5 (Lot BCBS3368V) Purity 98%	2,523.0 µg/mL	+/- 14.8064 µg/mL Gravimetric +/- 124.8241 µg/mL Unstressed +/- 127.9272 µg/mL Stressed

Handwritten signature and date: 2/3/28

8	1,2,3-Trimethylbenzene CAS # 526-73-8 Purity 99%	(Lot 8776.10-14)	2,508.0 µg/mL	+/- 14.7183 +/- 124.0815 +/- 127.1661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride CAS # 100-44-7 Purity 99%	(Lot SHBH2102V)	2,519.0 µg/mL	+/- 14.7829 +/- 124.6257 +/- 127.7238	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene CAS # 108-70-3 Purity 99%	(Lot 11319AS)	2,512.0 µg/mL	+/- 14.7418 +/- 124.2794 +/- 127.3689	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%						

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

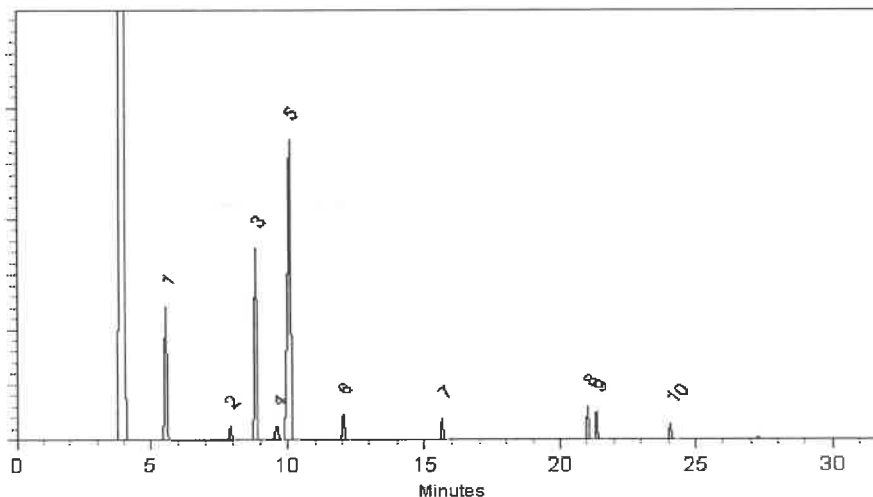
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

[Signature]
Tom Suckar - Mix Technician

Date Mixed: 04-Oct-2021

Balance: B707717271

[Signature]
Alexis Shelow - Operations Tech I

Date Passed: 06-Oct-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570808_00014



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570808 **Lot No.:** A0184916

Description : 8260 List 2 / Std #6

8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol) CAS # 67-63-0 (Lot SHBN1353) Purity 99%	25,010.5 µg/mL	+/- 146.4420 µg/mL +/- 1,237.3370 µg/mL +/- 1,268.0985 µg/mL
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 (Lot 220304JEAN) Purity 99%	2,514.0 µg/mL	+/- 14.7536 µg/mL +/- 124.3783 µg/mL +/- 127.4703 µg/mL
3	Methacrylonitrile CAS # 126-98-7 (Lot 1012020) Purity 99%	25,025.5 µg/mL	+/- 146.5298 µg/mL +/- 1,238.0790 µg/mL +/- 1,268.8590 µg/mL
4	2,2,4-Trimethylpentane (isooctane) CAS # 540-84-1 (Lot MKCM6627) Purity 99%	2,504.0 µg/mL	+/- 14.6949 µg/mL +/- 123.8836 µg/mL +/- 126.9633 µg/mL
5	1-Butanol CAS # 71-36-3 (Lot SHBN6854) Purity 99%	62,503.0 µg/mL	+/- 365.9499 µg/mL +/- 3,092.1899 µg/mL +/- 3,169.0651 µg/mL
6	2-Nitropropane CAS # 79-46-9 (Lot BCCB9352) Purity 97%	5,008.6 µg/mL	+/- 29.3264 µg/mL +/- 247.7887 µg/mL +/- 253.9490 µg/mL
7	1-Chlorohexane CAS # 544-10-5 (Lot BCBS3368V) Purity 98%	2,504.9 µg/mL	+/- 14.7000 µg/mL +/- 123.9271 µg/mL +/- 127.0079 µg/mL

8	1,2,3-Trimethylbenzene CAS # 526-73-8 Purity 98%	(Lot 8776.10-36)	2,505.4 µg/mL	+/- 14.7029 +/- 123.9514 +/- 127.0327	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride CAS # 100-44-7 Purity 99%	(Lot SHBH2102V)	2,503.0 µg/mL	+/- 14.6890 +/- 123.8341 +/- 126.9126	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene CAS # 108-70-3 Purity 99%	(Lot 11319AS)	2,507.5 µg/mL	+/- 14.7154 +/- 124.0568 +/- 127.1407	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%						

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

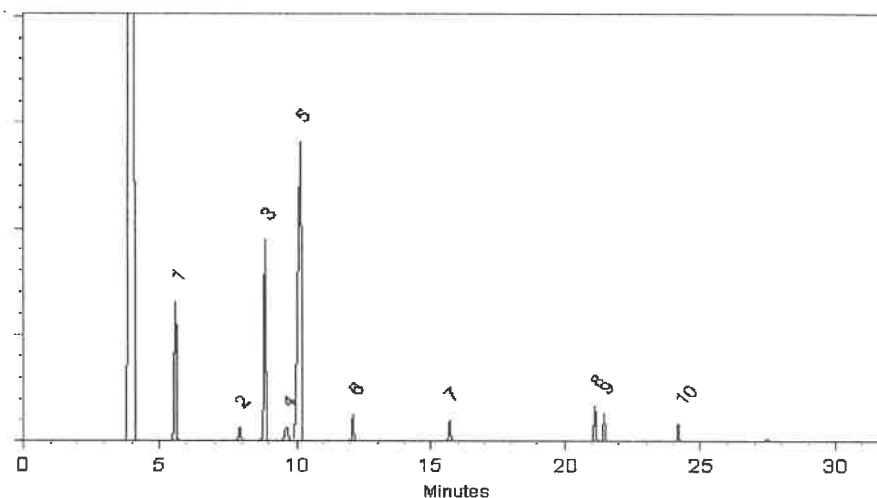
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 04-May-2022 Balance: B251644995

Christie Mills
Christie Mills - Operations Technician II

Date Passed: 17-May-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570808_00015



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ISO/IEC 17025 Accredited
Testing Laboratory
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 570808 Lot No.: A0184916
Description: 8260 List 2 / Std #6
8260 List 2 / Std #6 2,500-62,500µg/mL, P&T Methanol, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: November 30, 2023 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L., K=2)
1	2-Propanol (isopropanol) CAS # 67-63-0 (Lot SHBN1353) Purity 99%	25,010.5 µg/mL	+/- 146.4420 µg/mL Gravimetric +/- 1,237.3370 µg/mL Unstressed +/- 1,268.0985 µg/mL Stressed
2	Chloroprene (2-chloro-1,3-butadiene) CAS # 126-99-8 (Lot 220304JEAN) Purity 99%	2,514.0 µg/mL	+/- 14.7536 µg/mL Gravimetric +/- 124.3783 µg/mL Unstressed +/- 127.4703 µg/mL Stressed
3	Methacrylonitrile CAS # 126-98-7 (Lot 1012020) Purity 99%	25,025.5 µg/mL	+/- 146.5298 µg/mL Gravimetric +/- 1,238.0790 µg/mL Unstressed +/- 1,268.8590 µg/mL Stressed
4	2,2,4-Trimethylpentane (isooctane) CAS # 540-84-1 (Lot MKCM6627) Purity 99%	2,504.0 µg/mL	+/- 14.6949 µg/mL Gravimetric +/- 123.8836 µg/mL Unstressed +/- 126.9633 µg/mL Stressed
5	1-Butanol CAS # 71-36-3 (Lot SHBN6854) Purity 99%	62,503.0 µg/mL	+/- 365.9499 µg/mL Gravimetric +/- 3,092.1899 µg/mL Unstressed +/- 3,169.0651 µg/mL Stressed
6	2-Nitropropane CAS # 79-46-9 (Lot BCCB9352) Purity 97%	5,008.6 µg/mL	+/- 29.3264 µg/mL Gravimetric +/- 247.7887 µg/mL Unstressed +/- 253.9490 µg/mL Stressed
7	1-Chlorohexane CAS # 544-10-5 (Lot BCBS3368V) Purity 98%	2,504.9 µg/mL	+/- 14.7000 µg/mL Gravimetric +/- 123.9271 µg/mL Unstressed +/- 127.0079 µg/mL Stressed

3/24/23

8	1,2,3-Trimethylbenzene CAS # 526-73-8 Purity 98%	(Lot 8776.10-36)	2,505.4 µg/mL	+/- 14.7029 +/- 123.9514 +/- 127.0327	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl chloride CAS # 100-44-7 Purity 99%	(Lot SHBH2102V)	2,503.0 µg/mL	+/- 14.6890 +/- 123.8341 +/- 126.9126	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,3,5-Trichlorobenzene CAS # 108-70-3 Purity 99%	(Lot 11319AS)	2,507.5 µg/mL	+/- 14.7154 +/- 124.0568 +/- 127.1407	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%						

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

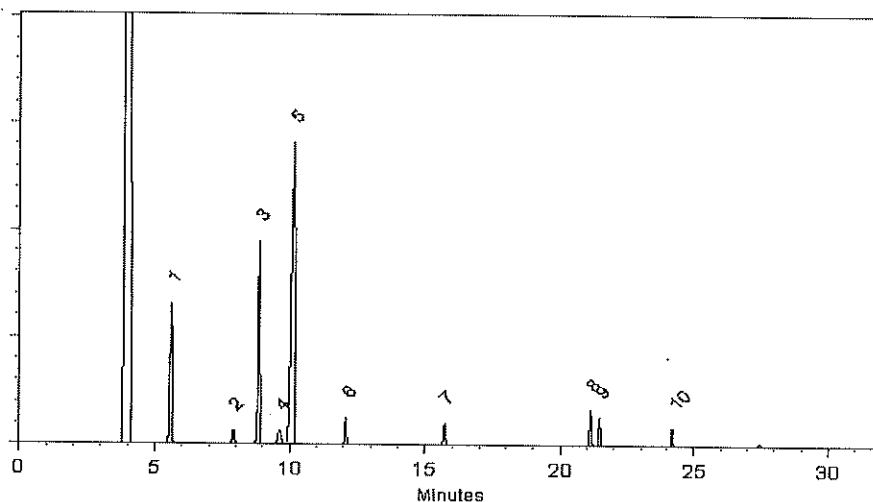
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 04-May-2022 Balance: B251644995

Christie Mills
Christie Mills - Operations Technician II

Date Passed: 17-May-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570809.sec_00008



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809.SEC Lot No.: A0171207
Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : October 31, 2022 Storage: 0°C or colder
Ship: Ambient

REC'D
12/13/21
Gm

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Ethyl acetate CAS # 141-78-6.SEC (Lot C386A-GG) Purity 99%	5,030.0 µg/mL	+/- 29.4518 µg/mL +/- 303.5022 µg/mL +/- 304.2227 µg/mL	Gravimetric Unstressed Stressed
2	Ethyl acrylate CAS # 140-88-5.SEC (Lot YIFAM-TG) Purity 99%	2,515.0 µg/mL	+/- 14.7594 µg/mL +/- 151.7544 µg/mL +/- 152.1146 µg/mL	Gravimetric Unstressed Stressed
3	Methyl methacrylate CAS # 80-62-6.SEC (Lot G01X021) Purity 99%	5,029.0 µg/mL	+/- 29.4459 µg/mL +/- 303.4419 µg/mL +/- 304.1622 µg/mL	Gravimetric Unstressed Stressed
4	Butyl acetate CAS # 123-86-4.SEC (Lot V2L2G-GT) Purity 99%	2,510.0 µg/mL	+/- 14.7301 µg/mL +/- 151.4527 µg/mL +/- 151.8122 µg/mL	Gravimetric Unstressed Stressed
Solvent:	P&T Methanol CAS # 67-56-1 Purity 99%			

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

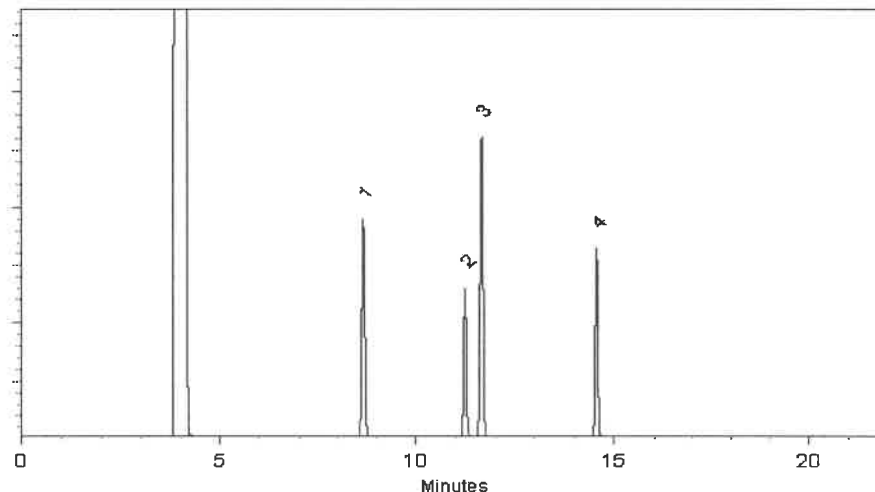
200°C

Det. Temp:

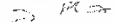
250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Cory Meyer - Operations Tech I

Date Mixed: 12-Apr-2021

Balance: 1127510105


Alexis Shelow - Operations Tech I

Date Passed: 15-Apr-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570809.sec_00009



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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809.SEC **Lot No.:** A0171207

Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2022 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound			Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Ethyl acetate			5,030.0	µg/mL	+/-	29.4518	µg/mL	Gravimetric
	CAS #	141-78-6.SEC	(Lot C386A-GG)			+/-	303.5022	µg/mL	Unstressed
	Purity	99%				+/-	304.2227	µg/mL	Stressed
2	Ethyl acrylate			2,515.0	µg/mL	+/-	14.7594	µg/mL	Gravimetric
	CAS #	140-88-5.SEC	(Lot YIFAM-TG)			+/-	151.7544	µg/mL	Unstressed
	Purity	99%				+/-	152.1146	µg/mL	Stressed
3	Methyl methacrylate			5,029.0	µg/mL	+/-	29.4459	µg/mL	Gravimetric
	CAS #	80-62-6.SEC	(Lot G01X021)			+/-	303.4419	µg/mL	Unstressed
	Purity	99%				+/-	304.1622	µg/mL	Stressed
4	Butyl acetate			2,510.0	µg/mL	+/-	14.7301	µg/mL	Gravimetric
	CAS #	123-86-4.SEC	(Lot V2L2G-GT)			+/-	151.4527	µg/mL	Unstressed
	Purity	99%				+/-	151.8122	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

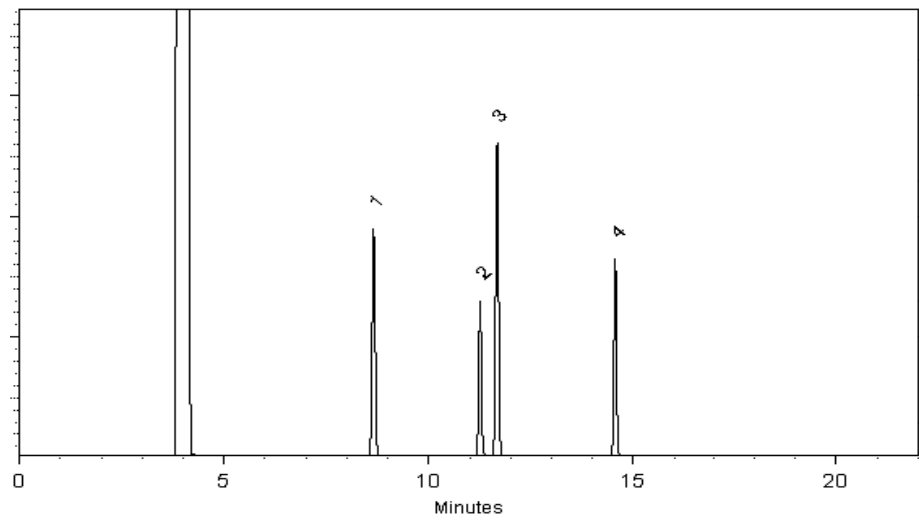
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Cory Meyer - Operations Tech I

Date Mixed: 12-Apr-2021 **Balance:** 1127510105


Alexis Shelow - Operations Tech I

Date Passed: 15-Apr-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Standard Verification Form

Standard Information			
Vendor Standard Name	8260 List#2/ std#7		
Vendor	RESTEK		
Lot number	A0171207		
Initial Verification	☐	Re-Verification	x

TALS "Reagent" Information	
TALS Standard ID	MV-SUPP B_00056
COA Reviewed against what is in TALS	☒

Verification Information and Data			
Verified by	Seifert J	Instrument ID	VMS_G2
Verification Date	11/02/2022	Method Reference	EPA8260
ID of Standard Used for Verification	lcs	Batch # / Chrom Work List #	WL 115716
Attach to this form: formulary report , COA and data used for verification Attach to standard in TALS: this form and all supporting documentation including the original CoA			
See Acceptance Criteria Below:			
Approved for Use	☒	Not Approved for Use	☐
New expiration date can be no greater than ½ the designated standards shelf life from the date of re-verification. Standards can only be re-verified one time.			
New Expiration Date:	12/01/2022		

1st Level Review

Judy Seifert

Date: 11/02/2022

2nd Level Review

Judy Seifert

Date: _____

QA Review (Re-verification only)		Date:
-------------------------------------	--	-------

Acceptance Criteria		
Department	Standard Analytes	Poor Performers* and Esterified Analytes
GC/HPLC	≤ 15 %D	≤ 35 %D or ≤ 50 %D for dinoseb
GCMS/LCMS	≤ 35 %D	≤ 55 %D
MSVOA	≤ 25 %D	≤ 55 %D
Metals	≤ 8 %D	NA
Wet Chemistry	≤ 5 %D	NA

*See analytical SOP for details on poor performing analytes.

Preliminary Report

Eurofins Denver

LCS, Lab Control Sample Report

Sample Path: \\chromfs\Denver\ChromData\VMS_G2\20221102-115716.b\G2_8617.D

Lims ID: lcs

Inj. Date: 02-Nov-2022 13:36:30

Worklist ID: 280-0115716-035

Instrument: VMS_G2

Method: SO_VMSG2_8260

Compound	Amount Added	Amount Recovered	%Rec	Limits 1 5030B
\$ 8 Dibromofluoromethane (S	50.0	49.5	98.9	75-121
\$ 9 1,2-Dichloroethane-d4 (	50.0	51.2	102.5	58-140
\$ 10 Toluene-d8 (Surr)	50.0	49.4	98.8	80-126
\$ 11 4-Bromofluorobenzene (S	50.0	49.8	99.5	76-127
42 Ethanol	3000.0	4085.0	136.2	50-150
51 Isopropyl alcohol	500.0	475.4	95.1	50-150
54 Acetonitrile	500.0	689.8	138.0	50-150
66 Isopropyl ether	50.0	61.8	123.6	50-150
68 2-Chloro-1,3-butadiene	50.0	64.5	129.0	64-135
69 Tert-butyl ethyl ether	50.0	69.9	139.8	50-150
70 Ethyl acetate	100.0	108.7	108.7	52-167
73 Propionitrile	500.0	476.0	95.2	50-150
76 Methacrylonitrile	500.0	589.2	117.8	50-150
86 Tert-amyl methyl ether	50.0	62.0	123.9	50-150
88 n-Butanol	1250.0	1053.0	84.2	70-130
91 Methyl methacrylate	100.0	90.7	90.7	50-150
97 2-Nitropropane	100.0	59.1	59.1	
120 cis-1,4-Dichloro-2-bute	100.0	103.2	103.2	
135 1,2,3-Trimethylbenzene	50.0	52.1	104.2	50-150
140 1,3,5-Trichlorobenzene	50.0	59.2	118.4	50-150

Samples for Limit Group: 1, Lims Prep Method: 5030B

280-168226-A-13-A

280-168226-A-14-A

280-168226-A-15-A

280-168226-A-16-A

280-168226-A-17-A

280-168226-A-18-A

280-168021-D-1-A

280-168021-B-3-A

280-168021-C-4-A

Reagent

mv-570809.sec_00010



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809.SEC **Lot No.:** A0183813
Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2023 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethyl acetate CAS # 141-78-6.SEC (Lot C386A-GG) Purity 99%	5,040.0 µg/mL	+/- 29.5103 µg/mL Gravimetric +/- 304.1056 µg/mL Unstressed +/- 304.8275 µg/mL Stressed
2	Ethyl acrylate CAS # 140-88-5.SEC (Lot YIFAM-TG) Purity 99%	2,510.0 µg/mL	+/- 14.7301 µg/mL Gravimetric +/- 151.4527 µg/mL Unstressed +/- 151.8122 µg/mL Stressed
3	Methyl methacrylate CAS # 80-62-6.SEC (Lot G01X021) Purity 99%	5,035.0 µg/mL	+/- 29.4810 µg/mL Gravimetric +/- 303.8039 µg/mL Unstressed +/- 304.5251 µg/mL Stressed
4	Butyl acetate CAS # 123-86-4.SEC (Lot V2L2G-GT) Purity 99%	2,500.0 µg/mL	+/- 14.6714 µg/mL Gravimetric +/- 150.8493 µg/mL Unstressed +/- 151.2073 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Handwritten signature and date: 12/5/22

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

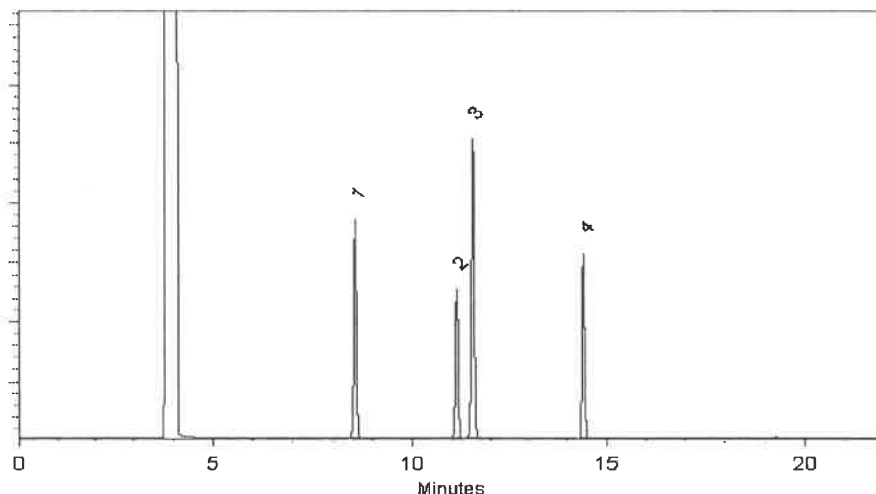
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

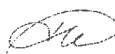
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

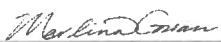


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Jess Hoy - Operations Tech I

Date Mixed: 07-Apr-2022

Balance: 1127510105


Marlene Cowan - Operations Tech I

Date Passed: 13-Apr-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570809_00011



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0173205
Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2022 **Storage:** 0°C or colder
Ship: Ambient

REC'D
12/13/21
GM

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethyl acetate CAS # 141-78-6 Purity 99% (Lot SHBM3421)	5,011.0 µg/mL	+/- 29.3405 µg/mL Gravimetric +/- 302.3558 µg/mL Unstressed +/- 303.0735 µg/mL Stressed
2	Ethyl acrylate CAS # 140-88-5 Purity 99% (Lot 10129902)	2,505.5 µg/mL	+/- 14.7037 µg/mL Gravimetric +/- 151.1811 µg/mL Unstressed +/- 151.5400 µg/mL Stressed
3	Methyl methacrylate CAS # 80-62-6 Purity 99% (Lot MKCN3027)	5,010.5 µg/mL	+/- 29.3376 µg/mL Gravimetric +/- 302.3256 µg/mL Unstressed +/- 303.0433 µg/mL Stressed
4	Butyl acetate CAS # 123-86-4 Purity 99% (Lot SHBM7214)	2,507.5 µg/mL	+/- 14.7154 µg/mL Gravimetric +/- 151.3018 µg/mL Unstressed +/- 151.6610 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

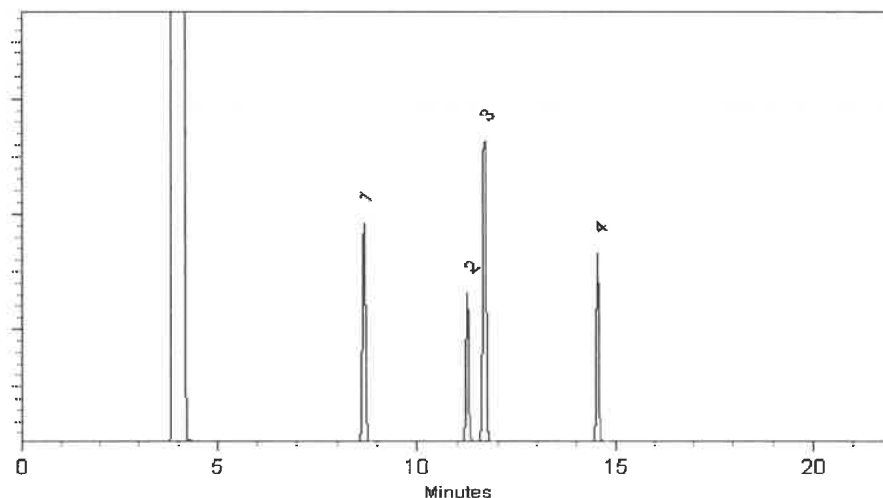
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Miranda Kline
Miranda Kline - Operations Technician I

Date Mixed: 09-Jun-2021 **Balance:** B251644995

Alexis Shelow
Alexis Shelow - Operations Tech I

Date Passed: 11-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570809_00012



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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 Lot No.: A0180509
Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2023 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethyl acetate CAS # 141-78-6 (Lot SHBN3179) Purity 98%	5,000.5 µg/mL	+/- 29.2787 µg/mL Gravimetric +/- 301.7192 µg/mL Unstressed +/- 302.4354 µg/mL Stressed
2	Ethyl acrylate CAS # 140-88-5 (Lot 10129902) Purity 99%	2,508.0 µg/mL	+/- 14.7183 µg/mL Gravimetric +/- 151.3320 µg/mL Unstressed +/- 151.6912 µg/mL Stressed
3	Methyl methacrylate CAS # 80-62-6 (Lot MKCN3027) Purity 99%	5,009.0 µg/mL	+/- 29.3288 µg/mL Gravimetric +/- 302.2351 µg/mL Unstressed +/- 302.9526 µg/mL Stressed
4	Butyl acetate CAS # 123-86-4 (Lot SHBM7214) Purity 99%	2,513.5 µg/mL	+/- 14.7506 µg/mL Gravimetric +/- 151.6638 µg/mL Unstressed +/- 152.0239 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Handwritten signature and date: 10/31/22

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

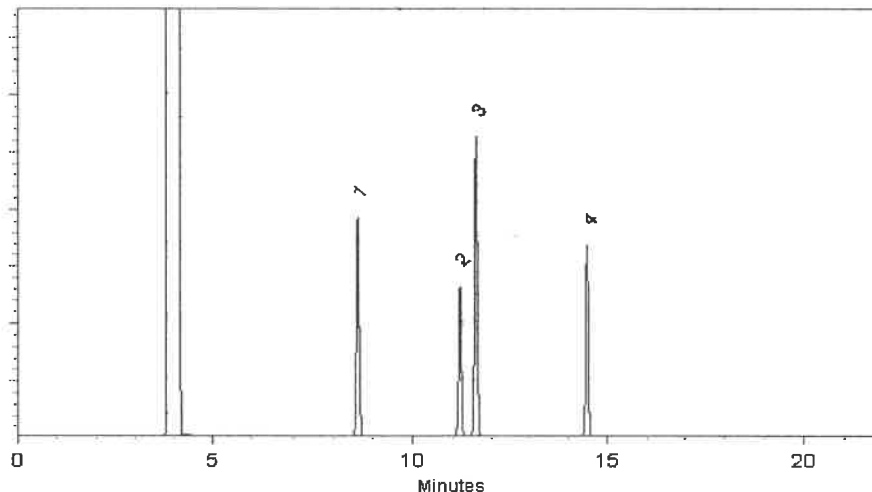
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 11-Jan-2022

Balance: B442140311

Clara Windle - Operations Technician I

Date Passed: 13-Jan-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-570809_00013



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570809 **Lot No.:** A0189215
Description : 8260 List 2 / Std #7
8260 List 2 / Std #7 2,500-5,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2024 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethyl acetate CAS # 141-78-6 (Lot SHBP3779) Purity 99%	5,047.5 µg/mL	+/- 29.5542 µg/mL Gravimetric +/- 304.5581 µg/mL Unstressed +/- 305.2811 µg/mL Stressed
2	Ethyl acrylate CAS # 140-88-5 (Lot 10129902) Purity 99%	2,517.0 µg/mL	+/- 14.7712 µg/mL Gravimetric +/- 151.8750 µg/mL Unstressed +/- 152.2356 µg/mL Stressed
3	Methyl methacrylate CAS # 80-62-6 (Lot MKCQ2755) Purity 99%	5,050.0 µg/mL	+/- 29.5689 µg/mL Gravimetric +/- 304.7090 µg/mL Unstressed +/- 305.4323 µg/mL Stressed
4	Butyl acetate CAS # 123-86-4 (Lot SHBN3806) Purity 99%	2,521.5 µg/mL	+/- 14.7976 µg/mL Gravimetric +/- 152.1466 µg/mL Unstressed +/- 152.5077 µg/mL Stressed
Solvent: P&T Methanol CAS # 67-56-1 Purity 99%			

Pvd 3/29/23
Qu

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

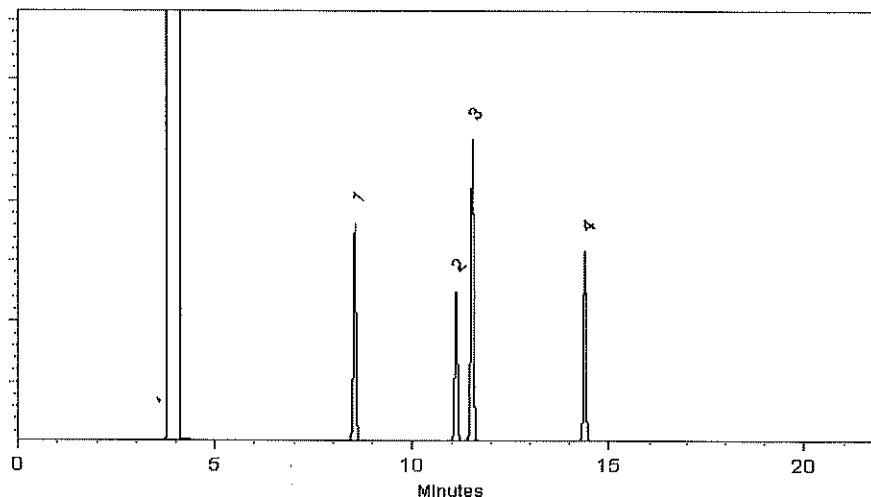
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bethany Lowery
Bethany Lowery - Operations Tech I

Date Mixed: 01-Sep-2022

Balance: B251644995

Christie Mills
Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-571992.sec_00007



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992.SEC **Lot No.:** A0167172

Description : 8260 List 1 / Std #1 MegaMix (2017)
8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2023 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) CAS # 60-29-7.SEC (Lot F23X068) Purity 99%	2,501.7 µg/mL	+/- 14.5449 µg/mL +/- 150.9366 µg/mL +/- 151.2950 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1.SEC (Lot 18342) Purity 99%	2,500.8 µg/mL	+/- 14.5401 µg/mL +/- 150.8864 µg/mL +/- 151.2446 µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene CAS # 75-35-4.SEC (Lot 7692300) Purity 99%	2,501.2 µg/mL	+/- 14.5420 µg/mL +/- 150.9065 µg/mL +/- 151.2647 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) CAS # 75-65-0.SEC (Lot HGCHN) Purity 99%	25,001.2 µg/mL	+/- 145.3513 µg/mL +/- 1,508.4304 µg/mL +/- 1,512.0117 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate CAS # 79-20-9.SEC (Lot UCNEL) Purity 99%	5,000.2 µg/mL	+/- 29.0714 µg/mL +/- 301.6822 µg/mL +/- 302.3985 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) CAS # 74-88-4.SEC (Lot Y25A027) Purity 99%	2,501.0 µg/mL	+/- 14.5410 µg/mL +/- 150.8964 µg/mL +/- 151.2547 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) CAS # 107-05-1.SEC (Lot H3HGC) Purity 99%	2,501.7 µg/mL	+/- 14.5449 µg/mL +/- 150.9366 µg/mL +/- 151.2950 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) CAS # 75-09-2.SEC (Lot FGM02) Purity 99%	2,501.0 µg/mL	+/-	14.5410 µg/mL	Gravimetric
			+/-	150.8964 µg/mL	Unstressed
			+/-	151.2547 µg/mL	Stressed
9	Carbon disulfide CAS # 75-15-0.SEC (Lot MKBL1376V) Purity 99%	2,501.5 µg/mL	+/-	14.5439 µg/mL	Gravimetric
			+/-	150.9266 µg/mL	Unstressed
			+/-	151.2849 µg/mL	Stressed
10	Acrylonitrile CAS # 107-13-1.SEC (Lot V54AD) Purity 99%	25,000.7 µg/mL	+/-	145.3484 µg/mL	Gravimetric
			+/-	1,508.4003 µg/mL	Unstressed
			+/-	1,511.9815 µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4.SEC (Lot ZHKYA) Purity 99%	2,501.2 µg/mL	+/-	14.5420 µg/mL	Gravimetric
			+/-	150.9065 µg/mL	Unstressed
			+/-	151.2647 µg/mL	Stressed
12	cis-1,2-Dichloroethene CAS # 156-59-2.SEC (Lot YZO5O) Purity 99%	2,500.2 µg/mL	+/-	14.5362 µg/mL	Gravimetric
			+/-	150.8461 µg/mL	Unstressed
			+/-	151.2043 µg/mL	Stressed
13	n-Hexane (C6) CAS # 110-54-3.SEC (Lot 10188491) Purity 99%	2,500.5 µg/mL	+/-	14.5381 µg/mL	Gravimetric
			+/-	150.8662 µg/mL	Unstressed
			+/-	151.2244 µg/mL	Stressed
14	1,1-Dichloroethane CAS # 75-34-3.SEC (Lot 1026.30-2) Purity 99%	2,500.8 µg/mL	+/-	14.5401 µg/mL	Gravimetric
			+/-	150.8864 µg/mL	Unstressed
			+/-	151.2446 µg/mL	Stressed
15	2,2-Dichloropropane CAS # 594-20-7.SEC (Lot I7E8E) Purity 99%	2,500.5 µg/mL	+/-	14.5381 µg/mL	Gravimetric
			+/-	150.8662 µg/mL	Unstressed
			+/-	151.2244 µg/mL	Stressed
16	trans-1,2-Dichloroethene CAS # 156-60-5.SEC (Lot L5QOH) Purity 99%	2,500.7 µg/mL	+/-	14.5391 µg/mL	Gravimetric
			+/-	150.8763 µg/mL	Unstressed
			+/-	151.2345 µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1.SEC (Lot YNG3K) Purity 99%	62,500.7 µg/mL	+/-	363.3653 µg/mL	Gravimetric
			+/-	3,770.9403 µg/mL	Unstressed
			+/-	3,779.8932 µg/mL	Stressed
18	Chloroform CAS # 67-66-3.SEC (Lot 1297547) Purity 99%	2,500.5 µg/mL	+/-	14.5381 µg/mL	Gravimetric
			+/-	150.8662 µg/mL	Unstressed
			+/-	151.2244 µg/mL	Stressed
19	Bromochloromethane CAS # 74-97-5.SEC (Lot 8529200) Purity 99%	2,501.5 µg/mL	+/-	14.5439 µg/mL	Gravimetric
			+/-	150.9266 µg/mL	Unstressed
			+/-	151.2849 µg/mL	Stressed
20	Tetrahydrofuran CAS # 109-99-9.SEC (Lot 8DAOJ) Purity 99%	5,001.5 µg/mL	+/-	29.0792 µg/mL	Gravimetric
			+/-	301.7627 µg/mL	Unstressed
			+/-	302.4791 µg/mL	Stressed
21	1,1,1-Trichloroethane CAS # 71-55-6.SEC (Lot 7998000) Purity 99%	2,500.7 µg/mL	+/-	14.5391 µg/mL	Gravimetric
			+/-	150.8763 µg/mL	Unstressed
			+/-	151.2345 µg/mL	Stressed
22	Cyclohexane CAS # 110-82-7.SEC (Lot YADRA) Purity 99%	2,500.0 µg/mL	+/-	14.5352 µg/mL	Gravimetric
			+/-	150.8361 µg/mL	Unstressed
			+/-	151.1942 µg/mL	Stressed
23	1,1-Dichloropropene CAS # 563-58-6.SEC (Lot 556500) Purity 99%	2,501.5 µg/mL	+/-	14.5439 µg/mL	Gravimetric
			+/-	150.9266 µg/mL	Unstressed
			+/-	151.2849 µg/mL	Stressed

24.	Carbon tetrachloride CAS # 56-23-5.SEC Purity 99%	(Lot 11466)	2,501.5 µg/mL	+/-	14.5439	µg/mL	Gravimetric
				+/-	150.9266	µg/mL	Unstressed
				+/-	151.2849	µg/mL	Stressed
25	n-Heptane (C7) CAS # 142-82-5.SEC Purity 99%	(Lot TFHUC)	2,500.2 µg/mL	+/-	14.5362	µg/mL	Gravimetric
				+/-	150.8461	µg/mL	Unstressed
				+/-	151.2043	µg/mL	Stressed
26	1,2-Dichloroethane CAS # 107-06-2.SEC Purity 99%	(Lot 00016165)	2,501.2 µg/mL	+/-	14.5420	µg/mL	Gravimetric
				+/-	150.9065	µg/mL	Unstressed
				+/-	151.2647	µg/mL	Stressed
27	Benzene CAS # 71-43-2.SEC Purity 99%	(Lot B28Y008)	2,501.2 µg/mL	+/-	14.5420	µg/mL	Gravimetric
				+/-	150.9065	µg/mL	Unstressed
				+/-	151.2647	µg/mL	Stressed
28	Trichloroethene CAS # 79-01-6.SEC Purity 99%	(Lot H04X050)	2,501.3 µg/mL	+/-	14.5430	µg/mL	Gravimetric
				+/-	150.9165	µg/mL	Unstressed
				+/-	151.2748	µg/mL	Stressed
29	Methylcyclohexane CAS # 108-87-2.SEC Purity 99%	(Lot 24MSD-CD)	2,500.8 µg/mL	+/-	14.5401	µg/mL	Gravimetric
				+/-	150.8864	µg/mL	Unstressed
				+/-	151.2446	µg/mL	Stressed
30	1,2-Dichloropropane CAS # 78-87-5.SEC Purity 99%	(Lot ERRBI-RH)	2,500.0 µg/mL	+/-	14.5352	µg/mL	Gravimetric
				+/-	150.8361	µg/mL	Unstressed
				+/-	151.1942	µg/mL	Stressed
31	1,4-Dioxane CAS # 123-91-1.SEC Purity 99%	(Lot 8CALO)	50,000.7 µg/mL	+/-	290.6930	µg/mL	Gravimetric
				+/-	3,016.7603	µg/mL	Unstressed
				+/-	3,023.9226	µg/mL	Stressed
32	Dibromomethane CAS # 74-95-3.SEC Purity 99%	(Lot MOKKJ)	2,501.0 µg/mL	+/-	14.5410	µg/mL	Gravimetric
				+/-	150.8964	µg/mL	Unstressed
				+/-	151.2547	µg/mL	Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5.SEC Purity 99%	(Lot 7ZLXJ-TJ)	2,501.7 µg/mL	+/-	14.5449	µg/mL	Gravimetric
				+/-	150.9366	µg/mL	Unstressed
				+/-	151.2950	µg/mL	Stressed
34	Toluene CAS # 108-88-3.SEC Purity 99%	(Lot YND2B-BD)	2,500.2 µg/mL	+/-	14.5362	µg/mL	Gravimetric
				+/-	150.8461	µg/mL	Unstressed
				+/-	151.2043	µg/mL	Stressed
35	Ethyl methacrylate CAS # 97-63-2.SEC Purity 99%	(Lot AQSP0)	2,500.7 µg/mL	+/-	14.5391	µg/mL	Gravimetric
				+/-	150.8763	µg/mL	Unstressed
				+/-	151.2345	µg/mL	Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6.SEC Purity 98%	(Lot ZDMSL)	2,501.0 µg/mL	+/-	14.5408	µg/mL	Gravimetric
				+/-	150.8940	µg/mL	Unstressed
				+/-	151.2522	µg/mL	Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5.SEC Purity 99%	(Lot 9245400)	2,501.7 µg/mL	+/-	14.5449	µg/mL	Gravimetric
				+/-	150.9366	µg/mL	Unstressed
				+/-	151.2950	µg/mL	Stressed
38	1,3-Dichloropropane CAS # 142-28-9.SEC Purity 99%	(Lot IQCON)	2,501.8 µg/mL	+/-	14.5459	µg/mL	Gravimetric
				+/-	150.9467	µg/mL	Unstressed
				+/-	151.3051	µg/mL	Stressed
39	Tetrachloroethene CAS # 127-18-4.SEC Purity 99%	(Lot F09W014)	2,501.7 µg/mL	+/-	14.5449	µg/mL	Gravimetric
				+/-	150.9366	µg/mL	Unstressed
				+/-	151.2950	µg/mL	Stressed

40	Dibromochloromethane CAS # 124-48-1.SEC Purity 97%	(Lot 10206360)	2,502.8 µg/mL	+/- +/- +/-	14.5513 151.0027 151.3612	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4.SEC Purity 99%	(Lot 8529900)	2,500.3 µg/mL	+/- +/- +/-	14.5372 150.8562 151.2143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7.SEC Purity 99%	(Lot 1161936)	2,500.7 µg/mL	+/- +/- +/-	14.5391 150.8763 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene CAS # 108-38-3.SEC Purity 99%	(Lot OUKMG-GB)	1,251.3 µg/mL	+/- +/- +/-	7.2922 75.5001 75.6793	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene CAS # 106-42-3.SEC Purity 99%	(Lot D6UOA)	1,250.3 µg/mL	+/- +/- +/-	7.2863 75.4398 75.6189	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene CAS # 100-41-4.SEC Purity 99%	(Lot PI4SE)	2,501.5 µg/mL	+/- +/- +/-	14.5439 150.9266 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane CAS # 630-20-6.SEC Purity 99%	(Lot 9366000)	2,501.0 µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6.SEC Purity 99%	(Lot FGL01)	2,501.8 µg/mL	+/- +/- +/-	14.5459 150.9467 151.3051	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5.SEC Purity 99%	(Lot QGQ7F)	2,500.5 µg/mL	+/- +/- +/-	14.5381 150.8662 151.2244	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8.SEC Purity 98%	(Lot WVREC)	2,501.0 µg/mL	+/- +/- +/-	14.5408 150.8940 151.2522	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	Bromoform CAS # 75-25-2.SEC Purity 99%	(Lot 9170700)	2,501.2 µg/mL	+/- +/- +/-	14.5420 150.9065 151.2647	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Bromodichloromethane CAS # 75-27-4.SEC Purity 99%	(Lot 13780)	2,501.2 µg/mL	+/- +/- +/-	14.5420 150.9065 151.2647	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane CAS # 79-34-5.SEC Purity 98%	(Lot BCCB0724)	2,500.5 µg/mL	+/- +/- +/-	14.5379 150.8644 151.2226	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4.SEC Purity 99%	(Lot GUHZN)	2,500.8 µg/mL	+/- +/- +/-	14.5401 150.8864 151.2446	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-Dichloro-2-butene CAS # 110-57-6.SEC Purity 97%	(Lot 100700-3)	2,500.5 µg/mL	+/- +/- +/-	14.5381 150.8661 151.2243	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1.SEC Purity 99%	(Lot T2HFC)	2,501.0 µg/mL	+/- +/- +/-	14.5410 150.8964 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1.SEC Purity 99%	(Lot 8DKWJ)	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8.SEC Purity 99%	(Lot TOOOOF)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	2-Chlorotoluene CAS # 95-49-8.SEC Purity 99%	(Lot SW8QG-AO)	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	4-Chlorotoluene CAS # 106-43-4.SEC Purity 99%	(Lot S5SKD)	2,501.3 µg/mL	+/- 14.5430 +/- 150.9165 +/- 151.2748	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	tert-Butylbenzene CAS # 98-06-6.SEC Purity 99%	(Lot D6OHC)	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6.SEC Purity 99%	(Lot JMIYD)	2,500.8 µg/mL	+/- 14.5401 +/- 150.8864 +/- 151.2446	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	sec-Butylbenzene CAS # 135-98-8.SEC Purity 99%	(Lot O4HRF)	2,501.3 µg/mL	+/- 14.5430 +/- 150.9165 +/- 151.2748	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	4-Isopropyltoluene (p-cymene) CAS # 99-87-6.SEC Purity 99%	(Lot 5221800)	2,501.5 µg/mL	+/- 14.5439 +/- 150.9266 +/- 151.2849	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1.SEC Purity 99%	(Lot FMDFD)	2,500.3 µg/mL	+/- 14.5372 +/- 150.8562 +/- 151.2143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7.SEC Purity 99%	(Lot 4Y5DC)	2,501.0 µg/mL	+/- 14.5410 +/- 150.8964 +/- 151.2547	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	n-Butylbenzene CAS # 104-51-8.SEC Purity 99%	(Lot MMPGA)	2,500.3 µg/mL	+/- 14.5372 +/- 150.8562 +/- 151.2143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1.SEC Purity 99%	(Lot R6QDM)	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8.SEC Purity 99%	(Lot Q135-105)	2,500.8 µg/mL	+/- 14.5401 +/- 150.8864 +/- 151.2446	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1.SEC Purity 99%	(Lot IGLFA)	2,500.8 µg/mL	+/- 14.5401 +/- 150.8864 +/- 151.2446	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Hexachlorobutadiene CAS # 87-68-3.SEC Purity 97%	(Lot 10550800)	2,501.5 µg/mL	+/- 14.5438 +/- 150.9247 +/- 151.2830	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Naphthalene CAS # 91-20-3.SEC Purity 99%	(Lot AM5NG)	2,500.7 µg/mL	+/- 14.5391 +/- 150.8763 +/- 151.2345	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	1,2,3-Trichlorobenzene		2,501.7 µg/mL	+/-	14.5449	µg/mL	Gravimetric
	CAS # 87-61-6.SEC	(Lot A0043055)		+/-	150.9366	µg/mL	Unstressed
	Purity 99%			+/-	151.2950	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

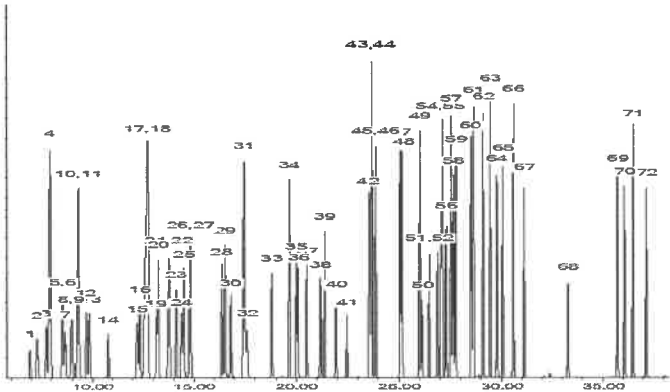
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael J. Mays
Justin Albertson
Justin Albertson - Operations Tech-ARM QC

Date Mixed: 13-Dec-2020 **Balance:** 1127510105

Date Passed: 23-Dec-2020

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-571992_00015



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571992 **Lot No.:** A0183568

Description : 8260 List 1 / Std #1 MegaMix (2017)

8260 List 1 / Std #1 MegaMix (2017) 1,250-62,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Diethyl ether (ethyl ether) CAS # 60-29-7 (Lot SHBN4280) Purity 99%	2,506.6 µg/mL	+/- 14.5737 µg/mL +/- 151.2358 µg/mL +/- 151.5949 µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) CAS # 76-13-1 (Lot 00016133) Purity 99%	2,514.5 µg/mL	+/- 14.6195 µg/mL +/- 151.7109 µg/mL +/- 152.0711 µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene CAS # 75-35-4 (Lot SHBG8609V) Purity 99%	2,515.1 µg/mL	+/- 14.6232 µg/mL +/- 151.7486 µg/mL +/- 152.1089 µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) CAS # 75-65-0 (Lot 101619K21F-1) Purity 99%	25,080.8 µg/mL	+/- 145.8140 µg/mL +/- 1,513.2321 µg/mL +/- 1,516.8247 µg/mL	Gravimetric Unstressed Stressed
5	Methyl acetate CAS # 79-20-9 (Lot SHBM1320) Purity 99%	5,026.6 µg/mL	+/- 29.2252 µg/mL +/- 303.2786 µg/mL +/- 303.9986 µg/mL	Gravimetric Unstressed Stressed
6	Iodomethane (methyl iodide) CAS # 74-88-4 (Lot RD220125) Purity 99%	2,505.3 µg/mL	+/- 14.5657 µg/mL +/- 151.1528 µg/mL +/- 151.5117 µg/mL	Gravimetric Unstressed Stressed
7	Allyl chloride (3-chloropropene) CAS # 107-05-1 (Lot RD211021) Purity 99%	2,509.1 µg/mL	+/- 14.5883 µg/mL +/- 151.3866 µg/mL +/- 151.7460 µg/mL	Gravimetric Unstressed Stressed

8	Methylene chloride (dichloromethane) CAS # 75-09-2 (Lot SHBP1417) Purity 99%	2,513.3	µg/mL	+/-	14.6123	µg/mL	Gravimetric
				+/-	151.6355	µg/mL	Unstressed
				+/-	151.9955	µg/mL	Stressed
9	Carbon disulfide CAS # 75-15-0 (Lot N28F701) Purity 99%	2,510.1	µg/mL	+/-	14.5941	µg/mL	Gravimetric
				+/-	151.4470	µg/mL	Unstressed
				+/-	151.8065	µg/mL	Stressed
10	Acrylonitrile CAS # 107-13-1 (Lot SHBK4954) Purity 99%	25,102.9	µg/mL	+/-	145.9426	µg/mL	Gravimetric
				+/-	1,514.5670	µg/mL	Unstressed
				+/-	1,518.1628	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE) CAS # 1634-04-4 (Lot SHBN6497) Purity 99%	2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
				+/-	151.6657	µg/mL	Unstressed
				+/-	152.0258	µg/mL	Stressed
12	cis-1,2-Dichloroethene CAS # 156-59-2 (Lot MKCP7830) Purity 99%	2,515.1	µg/mL	+/-	14.6232	µg/mL	Gravimetric
				+/-	151.7486	µg/mL	Unstressed
				+/-	152.1089	µg/mL	Stressed
13	n-Hexane (C6) CAS # 110-54-3 (Lot SHBL9879) Purity 99%	2,515.5	µg/mL	+/-	14.6253	µg/mL	Gravimetric
				+/-	151.7713	µg/mL	Unstressed
				+/-	152.1316	µg/mL	Stressed
14	1,1-Dichloroethane CAS # 75-34-3 (Lot 760200) Purity 99%	2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
				+/-	151.9146	µg/mL	Unstressed
				+/-	152.2752	µg/mL	Stressed
15	2,2-Dichloropropane CAS # 594-20-7 (Lot RD211103) Purity 99%	2,517.9	µg/mL	+/-	14.6391	µg/mL	Gravimetric
				+/-	151.9146	µg/mL	Unstressed
				+/-	152.2752	µg/mL	Stressed
16	trans-1,2-Dichloroethene CAS # 156-60-5 (Lot MKBH9850V) Purity 99%	2,511.4	µg/mL	+/-	14.6014	µg/mL	Gravimetric
				+/-	151.5224	µg/mL	Unstressed
				+/-	151.8821	µg/mL	Stressed
17	Isobutanol (2-Methyl-1-propanol) CAS # 78-83-1 (Lot 098794J01H) Purity 99%	62,633.1	µg/mL	+/-	364.1354	µg/mL	Gravimetric
				+/-	3,778.9321	µg/mL	Unstressed
				+/-	3,787.9040	µg/mL	Stressed
18	chloroform CAS # 67-66-3 (Lot SHBN8469) Purity 99%	2,510.9	µg/mL	+/-	14.5984	µg/mL	Gravimetric
				+/-	151.4922	µg/mL	Unstressed
				+/-	151.8519	µg/mL	Stressed
19	Bromochloromethane CAS # 74-97-5 (Lot 00008541) Purity 99%	2,517.0	µg/mL	+/-	14.6341	µg/mL	Gravimetric
				+/-	151.8618	µg/mL	Unstressed
				+/-	152.2223	µg/mL	Stressed
20	Tetrahydrofuran CAS # 109-99-9 (Lot SHBN3757) Purity 99%	5,036.1	µg/mL	+/-	29.2805	µg/mL	Gravimetric
				+/-	303.8517	µg/mL	Unstressed
				+/-	304.5731	µg/mL	Stressed
21	1,1,1-trichloroethane CAS # 71-55-6 (Lot RD220215) Purity 99%	2,509.6	µg/mL	+/-	14.5912	µg/mL	Gravimetric
				+/-	151.4168	µg/mL	Unstressed
				+/-	151.7763	µg/mL	Stressed
22	Cyclohexane CAS # 110-82-7 (Lot EA003-US) Purity 99%	2,510.0	µg/mL	+/-	14.5934	µg/mL	Gravimetric
				+/-	151.4394	µg/mL	Unstressed
				+/-	151.7990	µg/mL	Stressed
23	1,1-Dichloropropene CAS # 563-58-6 (Lot 220217JLM) Purity 99%	2,513.8	µg/mL	+/-	14.6152	µg/mL	Gravimetric
				+/-	151.6657	µg/mL	Unstressed
				+/-	152.0258	µg/mL	Stressed

24	carbon tetrachloride CAS # 56-23-5 Purity 99%	(Lot SHBL8097)	2,513.5 µg/mL	+/-	14.6137 151.6506 152.0106	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	n-Heptane (C7) CAS # 142-82-5 Purity 99%	(Lot SGBL9221)	2,511.4 µg/mL	+/-	14.6014 151.5224 151.8821	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	1,2-Dichloroethane CAS # 107-06-2 Purity 99%	(Lot MKCN9758)	2,514.4 µg/mL	+/-	14.6188 151.7034 152.0636	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	Benzene CAS # 71-43-2 Purity 99%	(Lot MKCM9242)	2,509.3 µg/mL	+/-	14.5890 151.3942 151.7536	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Trichloroethene CAS # 79-01-6 Purity 99%	(Lot SHBL5816)	2,507.5 µg/mL	+/-	14.5788 151.2886 151.6478	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	Methylcyclohexane CAS # 108-87-2 Purity 99%	(Lot SHBL0078)	2,510.3 µg/mL	+/-	14.5948 151.4545 151.8141	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	1,2-Dichloropropane CAS # 78-87-5 Purity 99%	(Lot BCBR0882V)	2,510.9 µg/mL	+/-	14.5984 151.4922 151.8519	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	1,4-Dioxane CAS # 123-91-1 Purity 99%	(Lot SHBM9675)	50,187.5 µg/mL	+/-	291.7792 3,028.0328 3,035.2219	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Dibromomethane CAS # 74-95-3 Purity 99%	(Lot 10201030)	2,511.0 µg/mL	+/-	14.5992 151.4998 151.8594	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	cis-1,3-Dichloropropene CAS # 10061-01-5 Purity 99%	(Lot RD220311)	2,513.8 µg/mL	+/-	14.6152 151.6657 152.0258	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	Toluene CAS # 108-88-3 Purity 99%	(Lot MKCQ2779)	2,518.4 µg/mL	+/-	14.6420 151.9447 152.3055	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	Ethyl methacrylate CAS # 97-63-2 Purity 99%	(Lot MKCL0907)	2,511.4 µg/mL	+/-	14.6014 151.5224 151.8821	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	trans-1,3-Dichloropropene CAS # 10061-02-6 Purity 98%	(Lot RD211104)	2,504.5 µg/mL	+/-	14.5615 151.1083 151.4671	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,1,2-Trichloroethane CAS # 79-00-5 Purity 99%	(Lot FGB01)	2,513.6 µg/mL	+/-	14.6144 151.6581 152.0182	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	1,3-Dichloropropane CAS # 142-28-9 Purity 99%	(Lot BCBC6265)	2,513.6 µg/mL	+/-	14.6144 151.6581 152.0182	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	Tetrachloroethene CAS # 127-18-4 Purity 99%	(Lot SHBJ7422)	2,507.5 µg/mL	+/-	14.5788 151.2886 151.6478	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	dibromochloromethane CAS # 124-48-1 Purity 99%	(Lot MKCM8659)	2,514.8	µg/mL	+/- +/- +/-	14.6210 151.7260 152.0862	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	1,2-Dibromoethane (EDB) CAS # 106-93-4 Purity 99%	(Lot BCCF5058)	2,513.9	µg/mL	+/- +/- +/-	14.6159 151.6732 152.0333	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	Chlorobenzene CAS # 108-90-7 Purity 99%	(Lot SHBL8110)	2,507.9	µg/mL	+/- +/- +/-	14.5810 151.3112 151.6704	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	m-Xylene CAS # 108-38-3 Purity 99%	(Lot Q13G020)	1,260.0	µg/mL	+/- +/- +/-	7.3257 76.0214 76.2019	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	p-Xylene CAS # 106-42-3 Purity 99%	(Lot 10234437)	1,258.6	µg/mL	+/- +/- +/-	7.3178 75.9384 76.1187	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	Ethylbenzene CAS # 100-41-4 Purity 99%	(Lot SHBM4308)	2,516.0	µg/mL	+/- +/- +/-	14.6282 151.8014 152.1618	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,1,1,2-Tetrachloroethane CAS # 630-20-6 Purity 99%	(Lot TMWKG)	2,519.1	µg/mL	+/- +/- +/-	14.6464 151.9900 152.3508	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	o-Xylene CAS # 95-47-6 Purity 98%	(Lot SHBN5105)	2,513.5	µg/mL	+/- +/- +/-	14.6134 151.6479 152.0079	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	Styrene CAS # 100-42-5 Purity 99%	(Lot MKCP3941)	2,509.1	µg/mL	+/- +/- +/-	14.5883 151.3866 151.7460	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Isopropylbenzene (cumene) CAS # 98-82-8 Purity 99%	(Lot Z20D022)	2,518.5	µg/mL	+/- +/- +/-	14.6428 151.9523 152.3130	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	bromoform CAS # 75-25-2 Purity 98%	(Lot SHBK4455)	2,511.0	µg/mL	+/- +/- +/-	14.5992 151.5001 151.8597	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	bromodichloromethane CAS # 75-27-4 Purity 99%	(Lot MKCM7156)	2,518.1	µg/mL	+/- +/- +/-	14.6406 151.9296 152.2903	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,1,2,2-Tetrachloroethane CAS # 79-34-5 Purity 99%	(Lot CFA4D)	2,515.5	µg/mL	+/- +/- +/-	14.6253 151.7713 152.1316	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	1,2,3-Trichloropropane CAS # 96-18-4 Purity 99%	(Lot 332900)	2,512.5	µg/mL	+/- +/- +/-	14.6079 151.5903 151.9502	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	trans-1,4-dichloro-2-butene CAS # 110-57-6 Purity 95%	(Lot RD220405A)	2,511.8	µg/mL	+/- +/- +/-	14.6038 151.5480 151.9078	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	n-Propylbenzene CAS # 103-65-1 Purity 99%	(Lot MKCN1126)	2,515.6	µg/mL	+/- +/- +/-	14.6261 151.7788 152.1392	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	Bromobenzene CAS # 108-86-1 Purity 99%	(Lot MKBD4032V)	2,516.9 µg/mL	+/-	14.6333	µg/mL	Gravimetric
				+/-	151.8542	µg/mL	Unstressed
				+/-	152.2147	µg/mL	Stressed
57	1,3,5-Trimethylbenzene CAS # 108-67-8 Purity 99%	(Lot BCCD0427)	2,512.3 µg/mL	+/-	14.6064	µg/mL	Gravimetric
				+/-	151.5752	µg/mL	Unstressed
				+/-	151.9350	µg/mL	Stressed
58	2-Chlorotoluene CAS # 95-49-8 Purity 99%	(Lot MKCF5243)	2,510.9 µg/mL	+/-	14.5984	µg/mL	Gravimetric
				+/-	151.4922	µg/mL	Unstressed
				+/-	151.8519	µg/mL	Stressed
59	4-Chlorotoluene CAS # 106-43-4 Purity 99%	(Lot MKCC8496)	2,513.1 µg/mL	+/-	14.6115	µg/mL	Gravimetric
				+/-	151.6280	µg/mL	Unstressed
				+/-	151.9880	µg/mL	Stressed
60	tert-Butylbenzene CAS # 98-06-6 Purity 99%	(Lot STBD6954V)	2,514.6 µg/mL	+/-	14.6202	µg/mL	Gravimetric
				+/-	151.7185	µg/mL	Unstressed
				+/-	152.0787	µg/mL	Stressed
61	1,2,4-Trimethylbenzene CAS # 95-63-6 Purity 98%	(Lot WXBC9428V)	2,517.1 µg/mL	+/-	14.6348	µg/mL	Gravimetric
				+/-	151.8696	µg/mL	Unstressed
				+/-	152.2302	µg/mL	Stressed
62	sec-Butylbenzene CAS # 135-98-8 Purity 99%	(Lot MKCN2920)	2,519.3 µg/mL	+/-	14.6471	µg/mL	Gravimetric
				+/-	151.9975	µg/mL	Unstressed
				+/-	152.3584	µg/mL	Stressed
63	p-Isopropyltoluene (p-Cymene) CAS # 99-87-6 Purity 99%	(Lot MKCP6638)	2,512.0 µg/mL	+/-	14.6050	µg/mL	Gravimetric
				+/-	151.5601	µg/mL	Unstressed
				+/-	151.9199	µg/mL	Stressed
64	1,3-Dichlorobenzene CAS # 541-73-1 Purity 99%	(Lot BCBZ7498)	2,515.5 µg/mL	+/-	14.6253	µg/mL	Gravimetric
				+/-	151.7713	µg/mL	Unstressed
				+/-	152.1316	µg/mL	Stressed
65	1,4-Dichlorobenzene CAS # 106-46-7 Purity 99%	(Lot MKBS4401V)	2,513.4 µg/mL	+/-	14.6130	µg/mL	Gravimetric
				+/-	151.6431	µg/mL	Unstressed
				+/-	152.0031	µg/mL	Stressed
66	n-Butylbenzene CAS # 104-51-8 Purity 99%	(Lot 09418JJ)	2,511.0 µg/mL	+/-	14.5992	µg/mL	Gravimetric
				+/-	151.4998	µg/mL	Unstressed
				+/-	151.8594	µg/mL	Stressed
67	1,2-Dichlorobenzene CAS # 95-50-1 Purity 99%	(Lot SHBN3835)	2,511.4 µg/mL	+/-	14.6014	µg/mL	Gravimetric
				+/-	151.5224	µg/mL	Unstressed
				+/-	151.8821	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane CAS # 96-12-8 Purity 97%	(Lot HBMVB)	2,512.4 µg/mL	+/-	14.6074	µg/mL	Gravimetric
				+/-	151.5855	µg/mL	Unstressed
				+/-	151.9454	µg/mL	Stressed
69	1,2,4-Trichlorobenzene CAS # 120-82-1 Purity 99%	(Lot SHBM0526)	2,510.4 µg/mL	+/-	14.5955	µg/mL	Gravimetric
				+/-	151.4620	µg/mL	Unstressed
				+/-	151.8216	µg/mL	Stressed
70	Hexachlorobutadiene CAS # 87-68-3 Purity 99%	(Lot X05J)	2,509.3 µg/mL	+/-	14.5890	µg/mL	Gravimetric
				+/-	151.3942	µg/mL	Unstressed
				+/-	151.7536	µg/mL	Stressed
71	Naphthalene CAS # 91-20-3 Purity 99%	(Lot MKCH0219)	2,520.6 µg/mL	+/-	14.6551	µg/mL	Gravimetric
				+/-	152.0805	µg/mL	Unstressed
				+/-	152.4415	µg/mL	Stressed

72	1,2,3-Trichlorobenzene		2,513.0 µg/mL	+/-	14.6108	µg/mL	Gravimetric
	CAS # 87-61-6	(Lot MKBX7627V)		+/-	151.6204	µg/mL	Unstressed
	Purity 99%			+/-	151.9804	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

60m x 0.25mm x 1.4µm
 Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant pressure 30 psi

Temp. Program:

40°C (hold 6 min.) to 240°C
 @ 5°C/min. (hold 10 min.)

Inj. Temp:

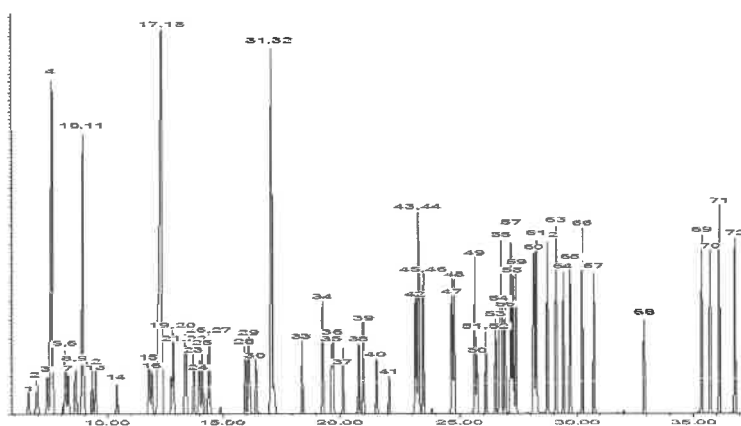
200°C

Det. Temp:

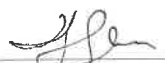
250°C

Det. Type:

MSD

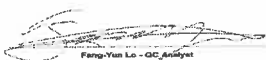


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


 Tom Suckar - Mix Technician

Date Mixed: 31-Mar-2022

Balance: B707717271


 Feng-Yun Lo - QC Analyst

Date Passed: 21-Apr-2022

Manufactured under Restek's ISO 9001:2015
 Registered Quality System
 Certificate #FM 80397

Reagent

mv-571993.sec_00007



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993.SEC Lot No.: A0170862

Description : 8260 List 3/ Std#1 Polar Additions (2017)
8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T
Methanol, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2023 Storage: 0°C or colder
Ship: Ambient

REC'D
12/13/21
Gr

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile CAS # 75-05-8.SEC (Lot JZJ3E) Purity 99%	25,020.7 µg/mL	+/- 146.5015 µg/mL Gravimetric +/- 1,237.8399 µg/mL Unstressed +/- 1,268.6139 µg/mL Stressed
2	Diisopropyl ether (DIPE) CAS # 108-20-3.SEC (Lot LL7TN-SH) Purity 99%	2,517.0 µg/mL	+/- 14.7712 µg/mL Gravimetric +/- 124.5268 µg/mL Unstressed +/- 127.6224 µg/mL Stressed
3	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3.SEC (Lot UCI5B) Purity 98%	2,513.0 µg/mL	+/- 14.7480 µg/mL Gravimetric +/- 124.3312 µg/mL Unstressed +/- 127.4220 µg/mL Stressed
4	Propionitrile CAS # 107-12-0.SEC (Lot N44LF) Purity 99%	25,200.0 µg/mL	+/- 147.5515 µg/mL Gravimetric +/- 1,246.7120 µg/mL Unstressed +/- 1,277.7066 µg/mL Stressed
5	tert-Amyl alcohol CAS # 75-85-4.SEC (Lot D87JO) Purity 99%	25,147.7 µg/mL	+/- 147.2451 µg/mL Gravimetric +/- 1,244.1230 µg/mL Unstressed +/- 1,275.0532 µg/mL Stressed
6	tert-Amyl methyl ether (TAME) CAS # 994-05-8.SEC (Lot 11010100) Purity 99%	2,516.7 µg/mL	+/- 14.7692 µg/mL Gravimetric +/- 124.5103 µg/mL Unstressed +/- 127.6055 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-S02.2 (cat.#10910)

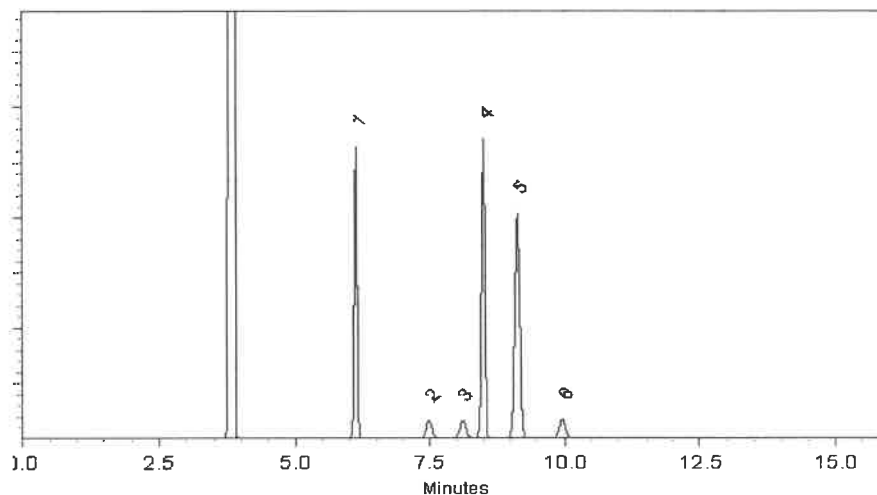
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

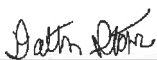
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dalton Stover - Operations Technician I

Date Mixed: 31-Mar-2021 **Balance:** 1128353505


Alexis Shelow - Operations Tech I

Date Passed: 02-Apr-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-571993.sec_00008



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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993.SEC **Lot No.:** A0189867

Description : 8260 List 3/ Std#1 Polar Additions (2017)

8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile CAS # 75-05-8.SEC (Lot 3ZDOE) Purity 99%	25,064.5 µg/mL	+/- 146.7582 µg/mL Gravimetric +/- 1,240.0085 µg/mL Unstressed +/- 1,270.8364 µg/mL Stressed
2	Diisopropyl ether (DIPE) CAS # 108-20-3.SEC (Lot LL7TN-SH) Purity 99%	2,511.0 µg/mL	+/- 14.7360 µg/mL Gravimetric +/- 124.2299 µg/mL Unstressed +/- 127.3182 µg/mL Stressed
3	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3.SEC (Lot UCI5B) Purity 98%	2,499.2 µg/mL	+/- 14.6667 µg/mL Gravimetric +/- 123.6459 µg/mL Unstressed +/- 126.7197 µg/mL Stressed
4	Propionitrile CAS # 107-12-0.SEC (Lot N44LF) Purity 99%	25,000.9 µg/mL	+/- 146.3858 µg/mL Gravimetric +/- 1,236.8620 µg/mL Unstressed +/- 1,267.6117 µg/mL Stressed
5	tert-Amyl alcohol CAS # 75-85-4.SEC (Lot REJPI) Purity 99%	25,023.6 µg/mL	+/- 146.5187 µg/mL Gravimetric +/- 1,237.9850 µg/mL Unstressed +/- 1,268.7627 µg/mL Stressed
6	tert-Amyl methyl ether (TAME) CAS # 994-05-8.SEC (Lot 12075100) Purity 98%	2,504.0 µg/mL	+/- 14.6949 µg/mL Gravimetric +/- 123.8835 µg/mL Unstressed +/- 126.9632 µg/mL Stressed

Handwritten signature and date: 12/5/22

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

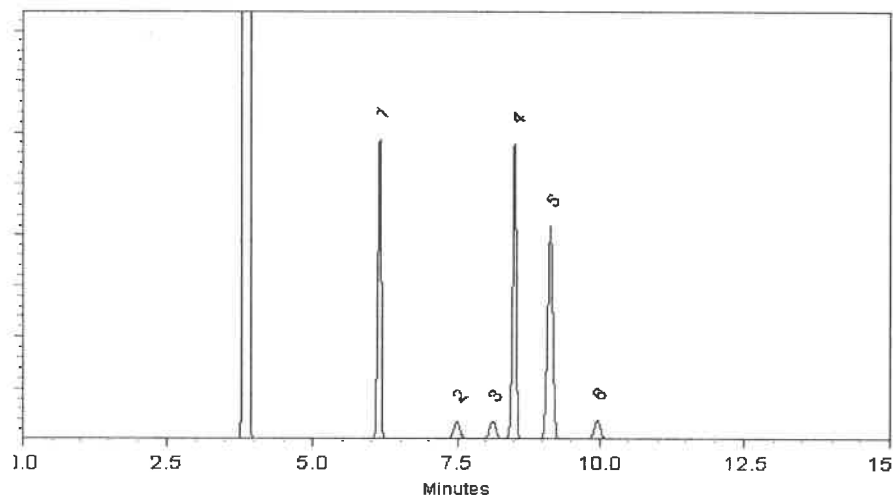
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Daniel Wasson - Operations Tech I

Date Mixed: 22-Sep-2022 **Balance:** 1128342314


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 26-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-571993_00007



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Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0172903

Description : 8260 List 3/ Std#1 Polar Additions (2017)
8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2023 **Storage:** 0°C or colder

Ship: Ambient

REC'D
12/13/21
GM

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile CAS # 75-05-8 (Lot SHBH6233) Purity 99%	25,165.0 µg/mL	+/- 147.3466 µg/mL Gravimetric +/- 1,244.9805 µg/mL Unstressed +/- 1,275.9320 µg/mL Stressed
2	Diisopropyl ether (DIPE) CAS # 108-20-3 (Lot SHBH1927V) Purity 99%	2,519.5 µg/mL	+/- 14.7858 µg/mL Gravimetric +/- 124.6504 µg/mL Unstressed +/- 127.7492 µg/mL Stressed
3	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3 (Lot MKCM3774) Purity 99%	2,510.5 µg/mL	+/- 14.7330 µg/mL Gravimetric +/- 124.2052 µg/mL Unstressed +/- 127.2929 µg/mL Stressed
4	Propionitrile CAS # 107-12-0 (Lot BCCB0845) Purity 99%	25,132.5 µg/mL	+/- 147.1563 µg/mL Gravimetric +/- 1,243.3726 µg/mL Unstressed +/- 1,274.2842 µg/mL Stressed
5	tert-Amyl alcohol CAS # 75-85-4 (Lot STBB1898V) Purity 99%	25,074.0 µg/mL	+/- 146.8138 µg/mL Gravimetric +/- 1,240.4785 µg/mL Unstressed +/- 1,271.3181 µg/mL Stressed
6	tert-Amyl methyl ether (TAME) CAS # 994-05-8 (Lot HMBG7745V) Purity 99%	2,509.0 µg/mL	+/- 14.7242 µg/mL Gravimetric +/- 124.1310 µg/mL Unstressed +/- 127.2168 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

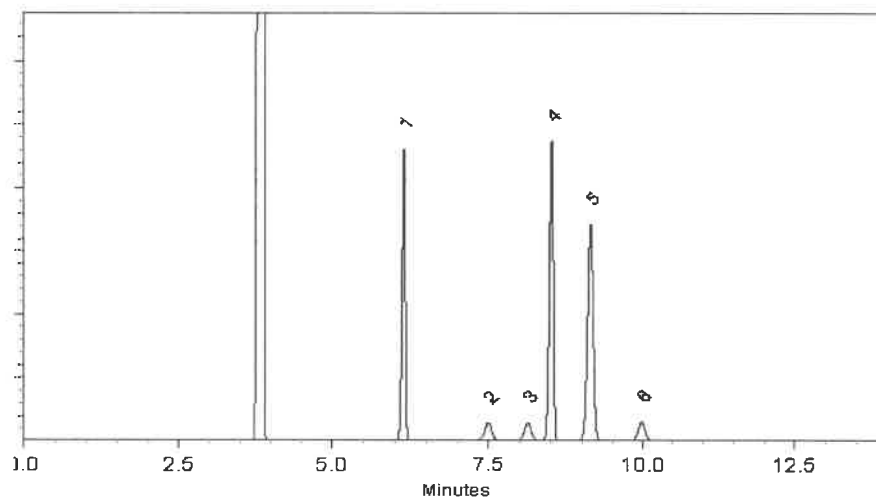
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

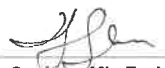
Inj. Temp:
200°C

Det. Temp:
250°C

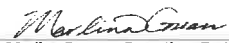
Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 01-Jun-2021 **Balance:** B707717271


Marlene Cowan - Operations Tech I

Date Passed: 03-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-571993_00008



110 Benner Circle
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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571993 **Lot No.:** A0183035

Description : 8260 List 3/ Std#1 Polar Additions (2017)
8260 List 3/ Std#1 Polar Additions (2017) 2,500-25,000µg/mL, P&T
Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2024 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Acetonitrile CAS # 75-05-8 (Lot SHBH6233) Purity 99%	25,214.8 µg/mL	+/- 147.6382 µg/mL Gravimetric +/- 1,247.4442 µg/mL Unstressed +/- 1,278.4570 µg/mL Stressed
2	Diisopropyl ether (DIPE) CAS # 108-20-3 (Lot STBK3450) Purity 99%	2,501.6 µg/mL	+/- 14.6808 µg/mL Gravimetric +/- 123.7649 µg/mL Unstressed +/- 126.8416 µg/mL Stressed
3	Ethyl-tert-butyl ether (ETBE) CAS # 637-92-3 (Lot MKCN9957) Purity 99%	2,516.8 µg/mL	+/- 14.7700 µg/mL Gravimetric +/- 124.5169 µg/mL Unstressed +/- 127.6123 µg/mL Stressed
4	Propionitrile CAS # 107-12-0 (Lot BCCB0845) Purity 99%	25,121.6 µg/mL	+/- 147.0925 µg/mL Gravimetric +/- 1,242.8334 µg/mL Unstressed +/- 1,273.7315 µg/mL Stressed
5	tert-Amyl alcohol CAS # 75-85-4 (Lot STBB1898V) Purity 99%	25,096.0 µg/mL	+/- 146.9426 µg/mL Gravimetric +/- 1,241.5669 µg/mL Unstressed +/- 1,272.4335 µg/mL Stressed
6	tert-Amyl methyl ether (TAME) CAS # 994-05-8 (Lot HMBG7745V) Purity 99%	2,518.0 µg/mL	+/- 14.7770 µg/mL Gravimetric +/- 124.5762 µg/mL Unstressed +/- 127.6731 µg/mL Stressed

OK 10/31/22

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

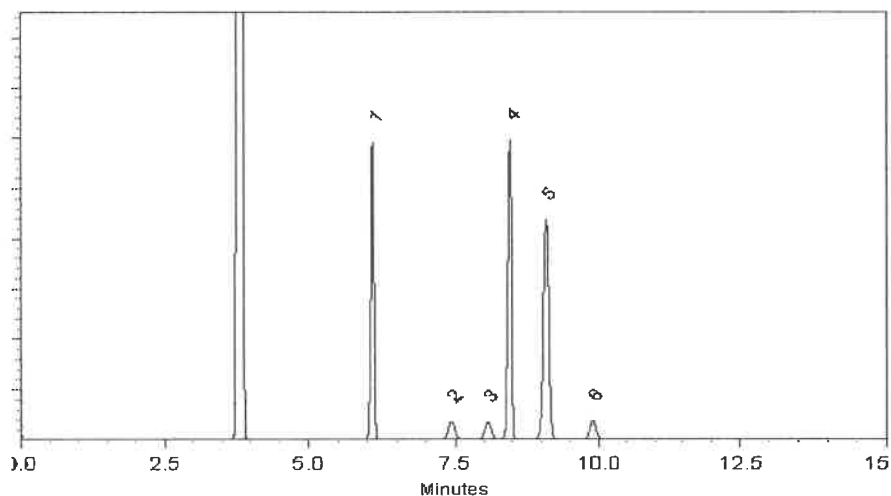
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Bethany Lowery - Operations Tech I

Date Mixed: 18-Mar-2022 **Balance:** B707717271


Feng-Yen Lo - QC Analyst

Date Passed: 22-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-571994.sec_00007



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 571994.SEC Lot No.: A0186688
Description: 8260 Ethanol Standard
8260 Ethanol Standard 100,000µg/mL, P&T Methanol, 1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: June 30, 2025 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethanol	100,070.0 µg/mL	+/- 585.9319 µg/mL Gravimetric
	CAS # 64-17-5.SEC (Lot C19I26002)		+/- 2,143.6321 µg/mL Unstressed
	Purity 99%		+/- 2,205.8869 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Handwritten signature and date: 12/1/22

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.# 10910)

Carrier Gas:

hydrogen-constant pressure 11 psi.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

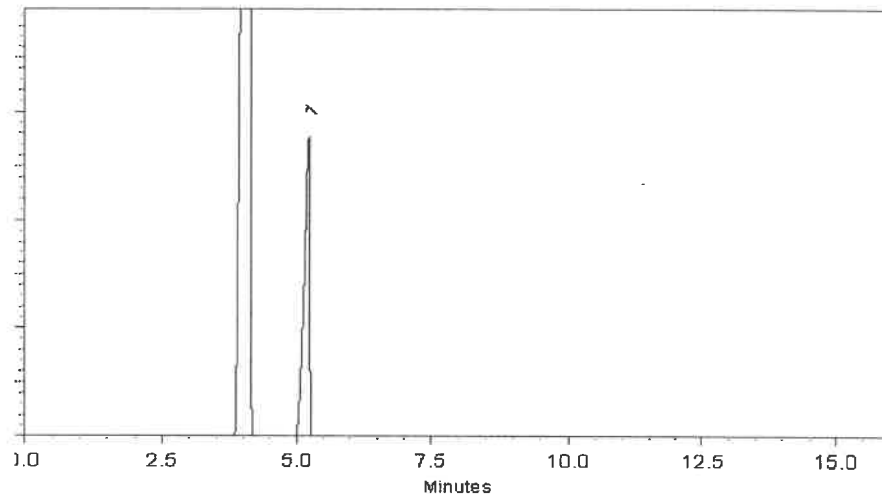
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bryan Snyder - Operations Tech I

Date Mixed: 27-Jun-2022

Balance: 1127510105

Christie Mills - Operations Tech II - ARM QC

Date Passed: 29-Jun-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-571994_00005



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571994 Lot No.: A0169978
Description : 8260 Ethanol Standard
8260 Ethanol Standard 100,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2024 Storage: 0°C or colder
Ship: Ambient

REC'D
12/2/21
Gm

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethanol CAS # 64-17-5 Purity 99% (Lot SHBM3719)	100,586.0 µg/mL	+/- 588.9228 µg/mL Gravimetric +/- 2,154.6772 µg/mL Unstressed +/- 2,217.2533 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.# 10910)

Carrier Gas:

hydrogen-constant pressure 11 psi.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

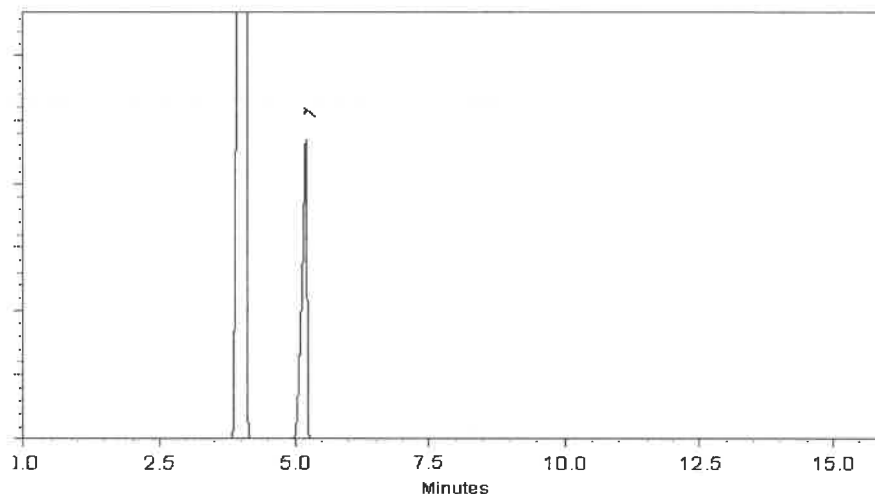
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 10-Mar-2021

Balance: B707717271

Alexis Shelow

Alexis Shelow - Operations Tech I

Date Passed: 16-Mar-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

mv-571994_00008



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571994 Lot No.: A0169978
Description : 8260 Ethanol Standard
8260 Ethanol Standard 100,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2024 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Ethanol CAS # 64-17-5 Purity 99% (Lot SHBM3719)	100,586.0 µg/mL	+/- 588.9228 µg/mL Gravimetric +/- 2,154.6772 µg/mL Unstressed +/- 2,217.2533 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2/3/22
MK

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.# 10910)

Carrier Gas:

hydrogen-constant pressure 11 psi.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 5°C/min.

Inj. Temp:

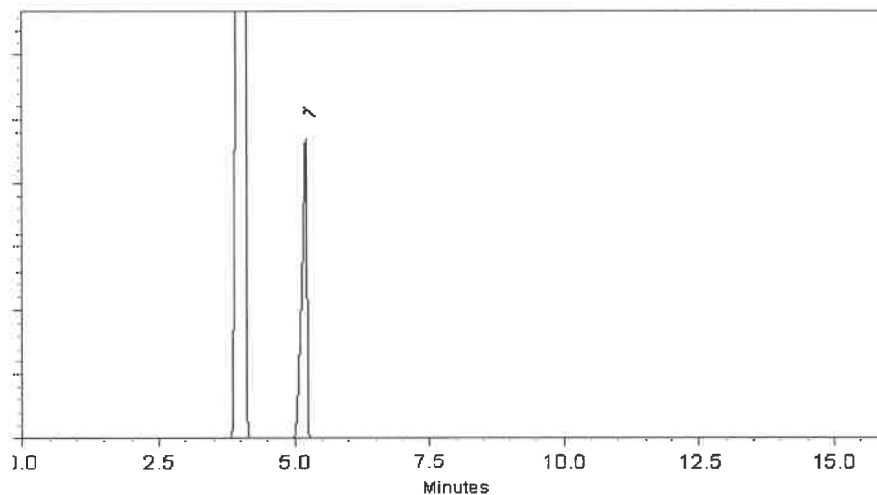
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 10-Mar-2021

Balance: B707717271

Alexis Shelow
Alexis Shelow - Operations Tech I

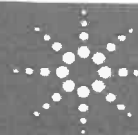
Date Passed: 16-Mar-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

MV-CUS17739.s_00011

ISO 17034



Agilent

Trusted Answers

Reference Material Certificate

Product Name: Custom Standard

Lot Number: 0006676357

Product Number: CUS-17739

Lot Issue Date: 15-Apr-2022

Storage Conditions: Store Frozen (-25° to -10°C).

Expiration Date: 31-May-2024

Component Name	CERTIFIED VALUES			CAS#	Analyte Lot
	Concentration	Expanded	Uncertainty		
1-chlorohexane	1004	±	5 µg/mL	000544-10-5	RM15291
2-pentanone	4019	±	20 µg/mL	000107-87-9	RM13478
sec-butanol	30105	±	151 µg/mL	000078-92-2	RM01299

Matrix: methanol (purge & trap grade)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

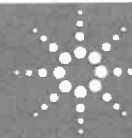
Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

Rec'd
7/4/22
JH

ISO 17034



Agilent

Trusted Answers

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois

QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO 9001:2015
Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/

CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Reagent

MV-CUS17739_00015

Reference Material Certificate
Product Information Sheet

Product Name: Custom Standard
Product Number: CUS-17739
Storage Conditions: Store Frozen (-25° to -10°C).

Lot Number: 0006712667
Lot Issue Date: 08-Nov-2022
Expiration Date: 31-Dec-2024

Component Name	CERTIFIED VALUES		CAS#	Analyte Lot
	Concentration	Expanded Uncertainty		
1-chlorohexane	1004 ±	5 µg/mL	000544-10-5	RM04913
2-pentanone	4015 ±	20 µg/mL	000107-87-9	RM13478
sec-butanol	30099 ±	150 µg/mL	000078-92-2	RM13506

Matrix: methanol (purge & trap grade)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

*Rev'd
3/17/23 JK*

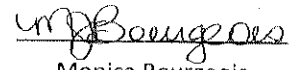


The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO
9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.1

ISO 17025

Reagent

mv-IS/SS Tune_00001



CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570812 **Lot No.:** A0143593

Description : 8260 IS/Surrogate Mix (2016)

8260 IS/Surrogate Mix (2016) 250-5,000µg/mL, P&T Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butyl-d9-alcohol CAS # 25725-11-5 (Lot CD-107) Purity 98%	5,000.1 µg/mL	+/- 29.0694 µg/mL Gravimetric +/- 107.0521 µg/mL Unstressed +/- 110.1643 µg/mL Stressed
2	Dibromofluoromethane CAS # 1868-53-7 (Lot 0012017) Purity 99%	250.2 µg/mL	+/- 1.4580 µg/mL Gravimetric +/- 5.3577 µg/mL Unstressed +/- 5.5134 µg/mL Stressed
3	1,2-Dichloroethane-d4 CAS # 17060-07-0 (Lot PR-29377) Purity 99%	250.3 µg/mL	+/- 1.4584 µg/mL Gravimetric +/- 5.3592 µg/mL Unstressed +/- 5.5149 µg/mL Stressed
4	1,4-Dioxane-d8 CAS # 17647-74-4 (Lot I-19942) Purity 99%	5,000.5 µg/mL	+/- 29.0716 µg/mL Gravimetric +/- 107.0602 µg/mL Unstressed +/- 110.1726 µg/mL Stressed
5	Fluorobenzene CAS # 462-06-6 (Lot BCBK8171V) Purity 99%	250.1 µg/mL	+/- 1.4573 µg/mL Gravimetric +/- 5.3549 µg/mL Unstressed +/- 5.5105 µg/mL Stressed
6	Toluene-d8 CAS # 2037-26-5 (Lot PR-27311) Purity 99%	250.1 µg/mL	+/- 1.4575 µg/mL Gravimetric +/- 5.3556 µg/mL Unstressed +/- 5.5112 µg/mL Stressed
7	Chlorobenzene-d5 CAS # 3114-55-4 (Lot PR-23926) Purity 99%	250.5 µg/mL	+/- 1.4600 µg/mL Gravimetric +/- 5.3649 µg/mL Unstressed +/- 5.5208 µg/mL Stressed

8	1-Bromo-4-fluorobenzene (BFB)			250.1	µg/mL	+/-	1.4575	µg/mL	Gravimetric		
	CAS #	460-00-4	(Lot 20401KO)			+/-	5.3556			µg/mL	Unstressed
	Purity	99%				+/-	5.5112			µg/mL	Stressed
9	1,4-Dichlorobenzene-d4			250.2	µg/mL	+/-	1.4580	µg/mL	Gravimetric		
	CAS #	3855-82-1	(Lot PR-18488)			+/-	5.3577			µg/mL	Unstressed
	Purity	99%				+/-	5.5134			µg/mL	Stressed
Solvent:	P&T Methanol										
	CAS #	67-56-1									
	Purity	99%									

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

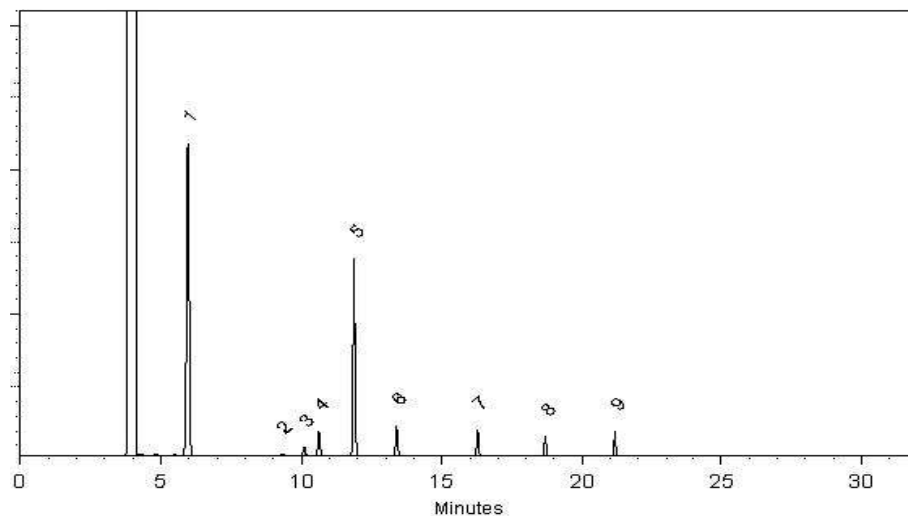
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

F. Joseph Tallon
F. Joseph Tallon - Mix Technician

Date Mixed: 29-Nov-2018

Balance: B251644995

Jennifer Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 18-Dec-2018

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

mv-VO-TAOH-5_00013

SPeXertificate®

Certificate of Reference Material

Catalog Number: VO-TAOH-5

Lot No. CP211214011

Description: Custom Organic Standard

Manufactured Date: December 14, 2021

Matrix: Methanol (Purge & Trap Grade)

Expiration Date: June 12, 2022

This SPEXOrganics® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

<u>Compound</u>	<u>CAS #</u>	<u>Labeled</u>	<u>Purity</u>	<u>Certified†</u>	<u>Uncertainty</u>
Ethylene oxide	75-21-8	50000 µg/mL	99.8%	50021 µg/mL	± 1801 µg/mL
cis-1,4-Dichloro-2-butene	1476-11-5	1000 µg/mL	95%	1013 µg/mL	± 36 µg/mL
Propylene oxide	75-56-9	50000 µg/mL	99%	49632 µg/mL	± 1787 µg/mL
Tetrahydrothiophene	110-01-0	1000 µg/mL	99%	1015 µg/mL	± 37 µg/mL

* - Isomer ratios (when applicable) are an uncertified parameter.

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: December 14, 2021

Certifying Officer: Shannon Macieira
Shannon Macieira, Operations Manager

Report of Certification

Catalog Number: VO-TAOH-5
Description: Custom Organic Standard
Matrix: Methanol (Purge & Trap Grade)

Lot No. CP211214011

Manufactured Date: December 14, 2021
Expiration Date: June 12, 2022

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001 (certified by DQS) and ISO 17025 (accredited by A2LA), and ISO 17034 (accredited by A2LA) quality system consistent with the following standards:

- ISO 9001: Quality management systems - Requirements
- ISO/IEC 17025: General requirements for the competence of testing and calibration laboratories
- ISO 17034: General requirements for the competence of reference material producers
- ISO Guide 30: Reference Materials - Selected terms and definitions
- ISO Guide 31: Reference Materials - Contents of certificates and labels
- ISO Guide 35: Reference Materials - General and Statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement, 2008
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurement - Third Edition
- NIST Technical Note 1297

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a freezer (-35°C to -10°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and applicable only if the product is stored under the laboratory specified conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025, ISO 17034, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%.

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = k u_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i , where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breach of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

SPEX CertiPrep 

Your Science is Our Passion.®

203 Norcross Ave. Metuchen, NJ 08840
www.spexcrtiprep.com • E-mail: crmsales@spexcsp.com
Phone: 1-732-549-7144 • Fax 1-732-603-9647



Reagent

Z-020209-01.b_00001



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020209-01-SS	488067	-18°C +/- 4°C	P/T Methanol	8/30/2024	cis-1,4-Dichloro-2-butene Solution, 1000 mg/L, 1 ml Second Source
Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L	
cis-1,4-dichloro-2-butene	1476-11-5	98	209.1.5.1S	999.8 ± 14.67	

*Not a certified value

Raw
9/2022

Certified By: _____

Sanquetta Coakley
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Reagent

Z-020209-01_00001



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:	
Z-020209-01	488066	-18°C +/- 4°C	P/T Methanol	8/30/2024	cis-1,4-Dichloro-2-butene Solution, 1000 mg/L, 1 ml	
Compound			CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
cis-1,4-dichloro-2-butene			1476-11-5	96.2	209.1.4.1P	1003 ± 12.64

*Not a certified value

Rev'd
JK 9/2022

Certified By: _____

Sanquetta Coakley
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

8260D

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Denver

Job No.: 280-179478-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): RXI-624SilM ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
RW-8284P-20230720	280-179478-1	98	107	105	106
RW-2076F-20230721	280-179478-2	99	107	103	105
RW-2172H-20230721	280-179478-3	98	107	106	106
RW-8048P-20230721	280-179478-4	99	97	102	106
RW-8012P-20230721	280-179478-5	98	107	103	105
RW-7677P-20230721	280-179478-6	98	106	104	105
RW-2213F-20230721	280-179478-7	99	106	103	105
RW-7773P-20230721	280-179478-8	97	108	106	105
RW-7549P-20230721	280-179478-9	97	107	102	103
PA-4-100-110-20230722	280-179478-10	99	108	104	104
TB-02-20230723	280-179478-11	104	109	101	102
PA-8-77-87-20230723	280-179478-12	107	112	101	102
MW-116S-20230723	280-179478-13	104	106	99	103
PA-1-20230722	280-179478-14	105	109	100	108
EB-03-20230722	280-179478-15	98	105	104	106
PA-1-Q-20230722	280-179478-16	105	110	101	107
	MB 280-621653/9	98	105	104	105
	MB 280-621775/9	102	105	102	104
	MB 280-621894/9	105	113	100	103
	MB 280-621922/9	101	104	101	104
	LCS 280-621653/4	99	107	102	105
	LCS 280-621653/6	101	106	102	104
	LCS 280-621775/4	101	106	102	103
	LCS 280-621775/5	102	105	101	107
	LCS 280-621894/4	100	108	100	101
	LCS 280-621894/5	102	108	98	109
	LCS 280-621922/4	99	103	100	102
	LCS 280-621922/5	98	102	100	102
	LCSD 280-621653/5	100	109	102	105
	LCSD 280-621653/7	100	105	103	108
	LCSD 280-621775/6	100	106	100	103
	LCSD 280-621775/7	100	106	100	108

QC LIMITS

DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

77-120
70-127
80-125
78-120

Column to be used to flag recovery values

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): DB-624 (60. ID: 0.25 (mm))

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
	LCSD 280-621894/6	99	107	99	100
	LCSD 280-621894/7	101	107	98	109
	LCSD 280-621922/6	99	103	102	101
	LCSD 280-621922/7	101	105	99	103
RW-8048P-20230721 MS	280-179478-4 MS	99	106	100	103
RW-8048P-20230721 MSD	280-179478-4 MSD	101	105	100	102

	<u>QC LIMITS</u>
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: ms11_00000550A.D
 Lab ID: LCS 280-621653/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	46.5	93	74-121	
1,1,1-Trichloroethane	50.0	47.3	95	62-132	
1,1,2,2-Tetrachloroethane	50.0	48.5	97	72-122	
1,1,2-Trichloroethane	50.0	46.2	92	72-128	
1,1-Dichloroethane	50.0	50.3	101	66-130	
1,1-Dichloroethene	50.0	46.0	92	62-130	
1,1-Dichloropropene	50.0	47.4	95	64-133	
1,2,3-Trichloropropane	50.0	45.5	91	74-123	
1,2-Dibromo-3-Chloropropane	50.0	41.2	82	58-122	
1,2-Dichlorobenzene	50.0	46.4	93	77-121	
1,2-Dichloroethane	50.0	51.1	102	61-130	
1,2-Dichloropropane	50.0	49.4	99	68-127	
1,3-Dichlorobenzene	50.0	45.4	91	76-121	
1,3-Dichloropropane	50.0	50.7	101	80-118	
1,4-Dichlorobenzene	50.0	45.5	91	76-119	
2,2-Dichloropropane	50.0	48.4	97	57-140	
2-Hexanone	200	211	106	58-134	
4-Methyl-2-pentanone (MIBK)	200	210	105	56-135	
Acetone	200	211	105	50-137	
Benzene	50.0	49.0	98	69-126	
Bromoform	50.0	42.0	84	57-125	
Bromomethane	50.0	45.7	91	25-163	
Carbon disulfide	50.0	49.8	100	56-128	
Carbon tetrachloride	50.0	45.3	91	60-133	
Chlorobenzene	50.0	47.7	95	78-118	
Chlorobromomethane	50.0	45.2	90	71-130	
Chlorodibromomethane	50.0	46.9	94	71-122	
Chloroethane	50.0	48.5	97	52-144	
Chloroform	50.0	47.3	95	68-128	
Chloromethane	50.0	47.9	96	43-142	
cis-1,2-Dichloroethene	50.0	45.5	91	69-126	
cis-1,3-Dichloropropene	50.0	51.3	103	75-120	
Dibromomethane	50.0	45.9	92	68-129	
Dichlorobromomethane	50.0	48.8	98	67-126	
Dichlorodifluoromethane	50.0	62.8	126	26-152	
Ethylbenzene	50.0	47.8	96	76-121	
Iodomethane	50.0	45.2	90	37-145	
Isobutyl alcohol	1250	1200	96	46-132	
Methylene Chloride	50.0	45.8	92	64-128	
m-Xylene & p-Xylene	50.0	49.9	100	76-122	
o-Xylene	50.0	47.3	95	77-120	
Styrene	50.0	50.4	101	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: ms11_00000550A.D
 Lab ID: LCS 280-621653/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	45.9	92	72-127	
Toluene	50.0	46.5	93	68-127	
trans-1,2-Dichloroethene	50.0	46.0	92	66-129	
trans-1,3-Dichloropropene	50.0	47.8	96	66-127	
Trichloroethene	50.0	44.2	88	70-125	
Trichlorofluoromethane	50.0	53.5	107	57-144	
Vinyl acetate	100	113	113	61-139	
Vinyl chloride	50.0	51.5	103	53-141	
Xylenes, Total	100	97.2	97	77-120	
2-Butanone (MEK)	200	203	101	53-135	
Acrolein	494	476	96	10-207	
Acrylonitrile	500	485	97	65-133	
1,2-Dibromoethane	50.0	47.6	95	81-118	
1,2,4-Trichlorobenzene	50.0	45.0	90	73-124	
Allyl chloride	50.0	51.6	103	57-136	
Ethyl methacrylate	50.0	48.8	98	69-126	
trans-1,4-Dichloro-2-butene	50.0	48.6	97	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: ms11_00000549B.D
Lab ID: LCS 280-621653/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroprene	25.0	32.0	128	53-147	
Acetonitrile	250	356	143	45-142	*+
Methacrylonitrile	250	352	141	47-142	
Methyl methacrylate	50.0	52.7	105	60-131	
Propionitrile	250	310	124	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6787bb.D
 Lab ID: LCS 280-621775/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	52.1	104	74-121	
1,1,1-Trichloroethane	50.0	52.7	105	62-132	
1,1,2,2-Tetrachloroethane	50.0	52.0	104	72-122	
1,1,2-Trichloroethane	50.0	51.9	104	72-128	
1,1-Dichloroethane	50.0	52.0	104	66-130	
1,1-Dichloroethene	50.0	49.5	99	62-130	
1,1-Dichloropropene	50.0	52.8	106	64-133	
1,2,3-Trichloropropane	50.0	51.6	103	74-123	
1,2-Dibromo-3-Chloropropane	50.0	48.2	96	58-122	
1,2-Dichlorobenzene	50.0	49.8	100	77-121	
1,2-Dichloroethane	50.0	53.1	106	61-130	
1,2-Dichloropropane	50.0	53.0	106	68-127	
1,3-Dichlorobenzene	50.0	49.1	98	76-121	
1,3-Dichloropropane	50.0	54.7	109	80-118	
1,4-Dichlorobenzene	50.0	47.8	96	76-119	
2,2-Dichloropropane	50.0	46.2	92	57-140	
2-Hexanone	200	222	111	58-134	
4-Methyl-2-pentanone (MIBK)	200	214	107	56-135	
Acetone	200	210	105	50-137	
Benzene	50.0	51.6	103	69-126	
Bromoform	50.0	50.6	101	57-125	
Bromomethane	50.0	34.5	69	25-163	
Carbon disulfide	50.0	46.6	93	56-128	
Carbon tetrachloride	50.0	52.6	105	60-133	
Chlorobenzene	50.0	49.5	99	78-118	
Chlorobromomethane	50.0	52.4	105	71-130	
Chlorodibromomethane	50.0	51.2	102	71-122	
Chloroethane	50.0	47.6	95	52-144	
Chloroform	50.0	51.4	103	68-128	
Chloromethane	50.0	48.2	96	43-142	
cis-1,2-Dichloroethene	50.0	50.0	100	69-126	
cis-1,3-Dichloropropene	50.0	52.8	106	75-120	
Dibromomethane	50.0	50.8	102	68-129	
Dichlorobromomethane	50.0	53.0	106	67-126	
Dichlorodifluoromethane	50.0	53.5	107	26-152	
Ethylbenzene	50.0	51.6	103	76-121	
Iodomethane	50.0	43.7	87	37-145	
Isobutyl alcohol	1250	1260	101	46-132	
Methylene Chloride	50.0	48.8	98	64-128	
m-Xylene & p-Xylene	50.0	53.6	107	76-122	
o-Xylene	50.0	53.9	108	77-120	
Styrene	50.0	54.5	109	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6787bb.D
 Lab ID: LCS 280-621775/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	50.6	101	72-127	
Toluene	50.0	51.1	102	68-127	
trans-1,2-Dichloroethene	50.0	48.9	98	66-129	
trans-1,3-Dichloropropene	50.0	51.9	104	66-127	
Trichloroethene	50.0	51.7	103	70-125	
Trichlorofluoromethane	50.0	54.0	108	57-144	
Vinyl acetate	100	99.0	99	61-139	
Vinyl chloride	50.0	51.4	103	53-141	
Xylenes, Total	100	108	108	77-120	
2-Butanone (MEK)	200	228	114	53-135	
Acrolein	494	481	97	10-207	
Acrylonitrile	500	557	111	65-133	
1,2-Dibromoethane	50.0	53.1	106	81-118	
1,2,4-Trichlorobenzene	50.0	47.2	94	73-124	
Allyl chloride	50.0	48.1	96	57-136	
Ethyl methacrylate	50.0	52.7	105	69-126	
trans-1,4-Dichloro-2-butene	50.0	49.7	99	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: R_6788b.D
Lab ID: LCS 280-621775/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroprene	25.0	31.1	124	53-147	
Acetonitrile	250	359	144	45-142	*+
Methacrylonitrile	250	334	133	47-142	
Methyl methacrylate	50.0	45.8	92	60-131	
Propionitrile	250	274	109	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6844c.D
 Lab ID: LCS 280-621894/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	51.9	104	74-121	
1,1,1-Trichloroethane	50.0	52.5	105	62-132	
1,1,2,2-Tetrachloroethane	50.0	50.8	102	72-122	
1,1,2-Trichloroethane	50.0	52.3	105	72-128	
1,1-Dichloroethane	50.0	51.2	102	66-130	
1,1-Dichloroethene	50.0	49.6	99	62-130	
1,1-Dichloropropene	50.0	52.2	104	64-133	
1,2,3-Trichloropropane	50.0	53.1	106	74-123	
1,2-Dibromo-3-Chloropropane	50.0	49.2	98	58-122	
1,2-Dichlorobenzene	50.0	50.4	101	77-121	
1,2-Dichloroethane	50.0	53.8	108	61-130	
1,2-Dichloropropane	50.0	52.9	106	68-127	
1,3-Dichlorobenzene	50.0	49.9	100	76-121	
1,3-Dichloropropane	50.0	53.4	107	80-118	
1,4-Dichlorobenzene	50.0	48.4	97	76-119	
2,2-Dichloropropane	50.0	46.9	94	57-140	
2-Hexanone	200	216	108	58-134	
4-Methyl-2-pentanone (MIBK)	200	217	108	56-135	
Acetone	200	210	105	50-137	
Benzene	50.0	50.6	101	69-126	
Bromoform	50.0	50.7	101	57-125	
Bromomethane	50.0	36.3	73	25-163	
Carbon disulfide	50.0	47.0	94	56-128	
Carbon tetrachloride	50.0	53.1	106	60-133	
Chlorobenzene	50.0	49.1	98	78-118	
Chlorobromomethane	50.0	51.5	103	71-130	
Chlorodibromomethane	50.0	50.8	102	71-122	
Chloroethane	50.0	46.5	93	52-144	
Chloroform	50.0	52.1	104	68-128	
Chloromethane	50.0	46.3	93	43-142	
cis-1,2-Dichloroethene	50.0	50.1	100	69-126	
cis-1,3-Dichloropropene	50.0	51.1	102	75-120	
Dibromomethane	50.0	50.7	101	68-129	
Dichlorobromomethane	50.0	53.3	107	67-126	
Dichlorodifluoromethane	50.0	49.6	99	26-152	
Ethylbenzene	50.0	50.7	101	76-121	
Iodomethane	50.0	39.0	78	37-145	
Isobutyl alcohol	1250	1310	105	46-132	
Methylene Chloride	50.0	48.2	96	64-128	
m-Xylene & p-Xylene	50.0	50.7	101	76-122	
o-Xylene	50.0	52.8	106	77-120	
Styrene	50.0	54.0	108	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6844c.D
 Lab ID: LCS 280-621894/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	50.0	100	72-127	
Toluene	50.0	50.1	100	68-127	
trans-1,2-Dichloroethene	50.0	48.3	97	66-129	
trans-1,3-Dichloropropene	50.0	52.8	106	66-127	
Trichloroethene	50.0	50.3	101	70-125	
Trichlorofluoromethane	50.0	48.5	97	57-144	
Vinyl acetate	100	85.1	85	61-139	
Vinyl chloride	50.0	48.2	96	53-141	
Xylenes, Total	100	104	104	77-120	
2-Butanone (MEK)	200	226	113	53-135	
Acrolein	494	443	90	10-207	
Acrylonitrile	500	556	111	65-133	
1,2-Dibromoethane	50.0	51.2	102	81-118	
1,2,4-Trichlorobenzene	50.0	47.4	95	73-124	
Allyl chloride	50.0	47.3	95	57-136	
Ethyl methacrylate	50.0	50.4	101	69-126	
trans-1,4-Dichloro-2-butene	50.0	52.5	105	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: R_6845b.D
Lab ID: LCS 280-621894/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroprene	25.0	29.6	119	53-147	
Acetonitrile	250	348	139	45-142	
Methacrylonitrile	250	333	133	47-142	
Methyl methacrylate	50.0	43.1	86	60-131	
Propionitrile	250	268	107	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MS1_2876a.D
 Lab ID: LCS 280-621922/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	44.1	88	74-121	
1,1,1-Trichloroethane	50.0	49.2	98	62-132	
1,1,2,2-Tetrachloroethane	50.0	49.6	99	72-122	
1,1,2-Trichloroethane	50.0	48.1	96	72-128	
1,1-Dichloroethane	50.0	48.3	97	66-130	
1,1-Dichloroethene	50.0	44.8	90	62-130	
1,1-Dichloropropene	50.0	47.1	94	64-133	
1,2,3-Trichloropropane	50.0	44.0	88	74-123	
1,2-Dibromo-3-Chloropropane	50.0	41.9	84	58-122	
1,2-Dichlorobenzene	50.0	45.2	90	77-121	
1,2-Dichloroethane	50.0	46.7	93	61-130	
1,2-Dichloropropane	50.0	45.6	91	68-127	
1,3-Dichlorobenzene	50.0	48.6	97	76-121	
1,3-Dichloropropane	50.0	48.8	98	80-118	
1,4-Dichlorobenzene	50.0	45.3	91	76-119	
2,2-Dichloropropane	50.0	50.8	102	57-140	
2-Hexanone	200	191	96	58-134	
4-Methyl-2-pentanone (MIBK)	200	199	100	56-135	
Acetone	200	219	109	50-137	
Benzene	50.0	45.7	91	69-126	
Bromoform	50.0	40.8	82	57-125	
Bromomethane	50.0	39.7	79	25-163	
Carbon disulfide	50.0	44.0	88	56-128	
Carbon tetrachloride	50.0	44.7	89	60-133	
Chlorobenzene	50.0	45.1	90	78-118	
Chlorobromomethane	50.0	49.9	100	71-130	
Chlorodibromomethane	50.0	43.7	87	71-122	
Chloroethane	50.0	49.3	99	52-144	
Chloroform	50.0	50.6	101	68-128	
Chloromethane	50.0	48.2	96	43-142	
cis-1,2-Dichloroethene	50.0	49.6	99	69-126	
cis-1,3-Dichloropropene	50.0	45.3	91	75-120	
Dibromomethane	50.0	47.2	94	68-129	
Dichlorobromomethane	50.0	46.0	92	67-126	
Dichlorodifluoromethane	50.0	47.7	95	26-152	
Ethylbenzene	50.0	45.1	90	76-121	
Iodomethane	50.0	43.7	87	37-145	
Isobutyl alcohol	1250	1250	100	46-132	
Methylene Chloride	50.0	50.6	101	64-128	
m-Xylene & p-Xylene	50.0	47.8	96	76-122	
o-Xylene	50.0	45.1	90	77-120	
Styrene	50.0	45.8	92	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MS1_2876a.D
 Lab ID: LCS 280-621922/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	44.5	89	72-127	
Toluene	50.0	48.2	96	68-127	
trans-1,2-Dichloroethene	50.0	49.2	98	66-129	
trans-1,3-Dichloropropene	50.0	46.3	93	66-127	
Trichloroethene	50.0	47.8	96	70-125	
Trichlorofluoromethane	50.0	47.5	95	57-144	
Vinyl acetate	100	127	127	61-139	
Vinyl chloride	50.0	51.0	102	53-141	
Xylenes, Total	100	92.9	93	77-120	
2-Butanone (MEK)	200	211	105	53-135	
Acrolein	494	478	97	10-207	
Acrylonitrile	500	497	99	65-133	
1,2-Dibromoethane	50.0	46.5	93	81-118	
1,2,4-Trichlorobenzene	50.0	46.9	94	73-124	
Allyl chloride	50.0	51.1	102	57-136	
Ethyl methacrylate	50.0	46.4	93	69-126	
trans-1,4-Dichloro-2-butene	50.0	44.8	90	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: MS1_2877a.D
Lab ID: LCS 280-621922/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Chloroprene	25.0	24.7	99	53-147	
Acetonitrile	250	215	86	45-142	
Methacrylonitrile	250	213	85	47-142	
Methyl methacrylate	50.0	43.9	88	60-131	
Propionitrile	250	207	83	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: ms11_00000551.D
 Lab ID: LCSD 280-621653/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	45.6	91	2	20	74-121	
1,1,1-Trichloroethane	50.0	47.7	95	1	20	62-132	
1,1,2,2-Tetrachloroethane	50.0	49.1	98	1	20	72-122	
1,1,2-Trichloroethane	50.0	46.7	93	1	20	72-128	
1,1-Dichloroethane	50.0	50.3	101	0	20	66-130	
1,1-Dichloroethene	50.0	46.6	93	1	21	62-130	
1,1-Dichloropropene	50.0	47.8	96	1	20	64-133	
1,2,3-Trichloropropane	50.0	47.4	95	4	20	74-123	
1,2-Dibromo-3-Chloropropane	50.0	42.1	84	2	21	58-122	
1,2-Dichlorobenzene	50.0	45.9	92	1	20	77-121	
1,2-Dichloroethane	50.0	50.9	102	0	20	61-130	
1,2-Dichloropropane	50.0	48.9	98	1	20	68-127	
1,3-Dichlorobenzene	50.0	45.2	90	0	20	76-121	
1,3-Dichloropropane	50.0	50.1	100	1	20	80-118	
1,4-Dichlorobenzene	50.0	44.1	88	3	20	76-119	
2,2-Dichloropropane	50.0	48.2	96	1	22	57-140	
2-Hexanone	200	220	110	4	21	58-134	
4-Methyl-2-pentanone (MIBK)	200	223	112	6	20	56-135	
Acetone	200	215	107	2	21	50-137	
Benzene	50.0	49.7	99	1	20	69-126	
Bromoform	50.0	42.7	85	2	20	57-125	
Bromomethane	50.0	51.4	103	12	40	25-163	
Carbon disulfide	50.0	50.7	101	2	20	56-128	
Carbon tetrachloride	50.0	46.3	93	2	20	60-133	
Chlorobenzene	50.0	46.4	93	3	20	78-118	
Chlorobromomethane	50.0	44.3	89	2	20	71-130	
Chlorodibromomethane	50.0	47.3	95	1	20	71-122	
Chloroethane	50.0	49.6	99	2	30	52-144	
Chloroform	50.0	48.7	97	3	20	68-128	
Chloromethane	50.0	49.5	99	3	20	43-142	
cis-1,2-Dichloroethene	50.0	44.4	89	2	20	69-126	
cis-1,3-Dichloropropene	50.0	50.8	102	1	20	75-120	
Dibromomethane	50.0	46.0	92	0	20	68-129	
Dichlorobromomethane	50.0	49.1	98	0	20	67-126	
Dichlorodifluoromethane	50.0	56.4	113	11	21	26-152	
Ethylbenzene	50.0	47.0	94	2	20	76-121	
Iodomethane	50.0	50.3	101	11	38	37-145	
Isobutyl alcohol	1250	1230	98	2	30	46-132	
Methylene Chloride	50.0	45.3	91	1	20	64-128	
m-Xylene & p-Xylene	50.0	49.0	98	2	20	76-122	
o-Xylene	50.0	46.2	92	2	20	77-120	
Styrene	50.0	49.3	99	2	20	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: ms11_00000551.D
 Lab ID: LCSD 280-621653/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Tetrachloroethene	50.0	46.5	93	1	20	72-127	
Toluene	50.0	46.8	94	1	20	68-127	
trans-1,2-Dichloroethene	50.0	46.4	93	1	20	66-129	
trans-1,3-Dichloropropene	50.0	48.6	97	2	20	66-127	
Trichloroethene	50.0	44.8	90	1	20	70-125	
Trichlorofluoromethane	50.0	51.2	102	4	28	57-144	
Vinyl acetate	100	118	118	4	23	61-139	
Vinyl chloride	50.0	52.4	105	2	25	53-141	
Xylenes, Total	100	95.2	95	2	20	77-120	
2-Butanone (MEK)	200	204	102	0	20	53-135	
Acrolein	494	484	98	1	23	10-207	
Acrylonitrile	500	506	101	4	20	65-133	
1,2-Dibromoethane	50.0	47.7	95	0	20	81-118	
1,2,4-Trichlorobenzene	50.0	44.4	89	1	20	73-124	
Allyl chloride	50.0	51.2	102	1	20	57-136	
Ethyl methacrylate	50.0	50.3	101	3	20	69-126	
trans-1,4-Dichloro-2-butene	50.0	49.0	98	1	24	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: ms11_00000552.D
Lab ID: LCSD 280-621653/7 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloroprene	25.0	29.2	117	9	20	53-147	
Acetonitrile	250	356	142	0	20	45-142	
Methacrylonitrile	250	332	133	6	20	47-142	
Methyl methacrylate	50.0	53.4	107	1	20	60-131	
Propionitrile	250	292	117	6	20	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6789.D
 Lab ID: LCSD 280-621775/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	50.5	101	3	20	74-121	
1,1,1-Trichloroethane	50.0	48.5	97	8	20	62-132	
1,1,2,2-Tetrachloroethane	50.0	53.0	106	2	20	72-122	
1,1,2-Trichloroethane	50.0	52.5	105	1	20	72-128	
1,1-Dichloroethane	50.0	49.2	98	6	20	66-130	
1,1-Dichloroethene	50.0	44.0	88	12	21	62-130	
1,1-Dichloropropene	50.0	48.5	97	8	20	64-133	
1,2,3-Trichloropropane	50.0	51.6	103	0	20	74-123	
1,2-Dibromo-3-Chloropropane	50.0	47.3	95	2	21	58-122	
1,2-Dichlorobenzene	50.0	50.0	100	0	20	77-121	
1,2-Dichloroethane	50.0	53.5	107	1	20	61-130	
1,2-Dichloropropane	50.0	51.8	104	2	20	68-127	
1,3-Dichlorobenzene	50.0	48.7	97	1	20	76-121	
1,3-Dichloropropane	50.0	53.2	106	3	20	80-118	
1,4-Dichlorobenzene	50.0	47.8	96	0	20	76-119	
2,2-Dichloropropane	50.0	51.1	102	10	22	57-140	
2-Hexanone	200	224	112	1	21	58-134	
4-Methyl-2-pentanone (MIBK)	200	218	109	2	20	56-135	
Acetone	200	219	109	4	21	50-137	
Benzene	50.0	49.4	99	4	20	69-126	
Bromoform	50.0	51.2	102	1	20	57-125	
Bromomethane	50.0	34.5	69	0	40	25-163	
Carbon disulfide	50.0	39.4	79	17	20	56-128	
Carbon tetrachloride	50.0	48.2	96	9	20	60-133	
Chlorobenzene	50.0	48.3	97	2	20	78-118	
Chlorobromomethane	50.0	51.7	103	1	20	71-130	
Chlorodibromomethane	50.0	51.9	104	1	20	71-122	
Chloroethane	50.0	40.4	81	16	30	52-144	
Chloroform	50.0	50.6	101	1	20	68-128	
Chloromethane	50.0	37.7	75	24	20	43-142	*1
cis-1,2-Dichloroethene	50.0	48.9	98	2	20	69-126	
cis-1,3-Dichloropropene	50.0	53.2	106	1	20	75-120	
Dibromomethane	50.0	51.3	103	1	20	68-129	
Dichlorobromomethane	50.0	53.1	106	0	20	67-126	
Dichlorodifluoromethane	50.0	33.8	68	45	21	26-152	*1
Ethylbenzene	50.0	49.2	98	5	20	76-121	
Iodomethane	50.0	42.2	84	3	38	37-145	
Isobutyl alcohol	1250	1320	106	4	30	46-132	
Methylene Chloride	50.0	48.4	97	1	20	64-128	
m-Xylene & p-Xylene	50.0	49.9	100	7	20	76-122	
o-Xylene	50.0	51.6	103	4	20	77-120	
Styrene	50.0	53.1	106	3	20	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6789.D
 Lab ID: LCSD 280-621775/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Tetrachloroethene	50.0	47.6	95	6	20	72-127	
Toluene	50.0	49.1	98	4	20	68-127	
trans-1,2-Dichloroethene	50.0	45.7	91	7	20	66-129	
trans-1,3-Dichloropropene	50.0	54.8	110	5	20	66-127	
Trichloroethene	50.0	46.9	94	10	20	70-125	
Trichlorofluoromethane	50.0	43.7	87	21	28	57-144	
Vinyl acetate	100	114	114	14	23	61-139	
Vinyl chloride	50.0	40.0	80	25	25	53-141	
Xylenes, Total	100	102	102	6	20	77-120	
2-Butanone (MEK)	200	231	116	2	20	53-135	
Acrolein	494	534	108	10	23	10-207	
Acrylonitrile	500	557	111	0	20	65-133	
1,2-Dibromoethane	50.0	52.4	105	1	20	81-118	
1,2,4-Trichlorobenzene	50.0	48.4	97	2	20	73-124	
Allyl chloride	50.0	46.7	93	3	20	57-136	
Ethyl methacrylate	50.0	52.9	106	0	20	69-126	
trans-1,4-Dichloro-2-butene	50.0	54.3	109	9	24	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6790.D
 Lab ID: LCSD 280-621775/7 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloroprene	25.0	33.1	132	6	20	53-147	
Acetonitrile	250	380	152	6	20	45-142	*+
Methacrylonitrile	250	359	144	7	20	47-142	*+
Methyl methacrylate	50.0	50.0	100	9	20	60-131	
Propionitrile	250	288	115	5	20	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6846.D
 Lab ID: LCSD 280-621894/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	53.6	107	3	20	74-121	
1,1,1-Trichloroethane	50.0	54.8	110	4	20	62-132	
1,1,2,2-Tetrachloroethane	50.0	57.0	114	12	20	72-122	
1,1,2-Trichloroethane	50.0	54.7	109	4	20	72-128	
1,1-Dichloroethane	50.0	52.0	104	2	20	66-130	
1,1-Dichloroethene	50.0	51.5	103	4	21	62-130	
1,1-Dichloropropene	50.0	55.0	110	5	20	64-133	
1,2,3-Trichloropropane	50.0	55.0	110	3	20	74-123	
1,2-Dibromo-3-Chloropropane	50.0	52.0	104	5	21	58-122	
1,2-Dichlorobenzene	50.0	52.3	105	4	20	77-121	
1,2-Dichloroethane	50.0	54.4	109	1	20	61-130	
1,2-Dichloropropane	50.0	54.0	108	2	20	68-127	
1,3-Dichlorobenzene	50.0	51.4	103	3	20	76-121	
1,3-Dichloropropane	50.0	54.8	110	3	20	80-118	
1,4-Dichlorobenzene	50.0	49.9	100	3	20	76-119	
2,2-Dichloropropane	50.0	57.2	114	20	22	57-140	
2-Hexanone	200	243	121	12	21	58-134	
4-Methyl-2-pentanone (MIBK)	200	232	116	7	20	56-135	
Acetone	200	217	108	3	21	50-137	
Benzene	50.0	52.0	104	3	20	69-126	
Bromoform	50.0	55.5	111	9	20	57-125	
Bromomethane	50.0	36.5	73	0	40	25-163	
Carbon disulfide	50.0	49.6	99	5	20	56-128	
Carbon tetrachloride	50.0	56.1	112	5	20	60-133	
Chlorobenzene	50.0	51.2	102	4	20	78-118	
Chlorobromomethane	50.0	52.7	105	2	20	71-130	
Chlorodibromomethane	50.0	53.9	108	6	20	71-122	
Chloroethane	50.0	41.4	83	12	30	52-144	
Chloroform	50.0	52.0	104	0	20	68-128	
Chloromethane	50.0	36.1	72	25	20	43-142	*1
cis-1,2-Dichloroethene	50.0	50.2	100	0	20	69-126	
cis-1,3-Dichloropropene	50.0	53.7	107	5	20	75-120	
Dibromomethane	50.0	53.7	107	6	20	68-129	
Dichlorobromomethane	50.0	54.0	108	1	20	67-126	
Dichlorodifluoromethane	50.0	37.1	74	29	21	26-152	*1
Ethylbenzene	50.0	52.4	105	3	20	76-121	
Iodomethane	50.0	42.4	85	8	38	37-145	
Isobutyl alcohol	1250	1430	115	9	30	46-132	
Methylene Chloride	50.0	48.7	97	1	20	64-128	
m-Xylene & p-Xylene	50.0	52.7	105	4	20	76-122	
o-Xylene	50.0	54.8	110	4	20	77-120	
Styrene	50.0	56.4	113	4	20	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6846.D
 Lab ID: LCSD 280-621894/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Tetrachloroethene	50.0	53.1	106	6	20	72-127	
Toluene	50.0	52.1	104	4	20	68-127	
trans-1,2-Dichloroethene	50.0	50.9	102	5	20	66-129	
trans-1,3-Dichloropropene	50.0	57.1	114	8	20	66-127	
Trichloroethene	50.0	50.4	101	0	20	70-125	
Trichlorofluoromethane	50.0	48.1	96	1	28	57-144	
Vinyl acetate	100	118	118	33	23	61-139	*1
Vinyl chloride	50.0	42.3	85	13	25	53-141	
Xylenes, Total	100	108	108	4	20	77-120	
2-Butanone (MEK)	200	234	117	4	20	53-135	
Acrolein	494	517	105	15	23	10-207	
Acrylonitrile	500	558	112	0	20	65-133	
1,2-Dibromoethane	50.0	53.4	107	4	20	81-118	
1,2,4-Trichlorobenzene	50.0	50.8	102	7	20	73-124	
Allyl chloride	50.0	51.6	103	9	20	57-136	
Ethyl methacrylate	50.0	54.4	109	8	20	69-126	
trans-1,4-Dichloro-2-butene	50.0	58.9	118	12	24	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6847.D
 Lab ID: LCSD 280-621894/7 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloroprene	25.0	32.0	128	8	20	53-147	
Acetonitrile	250	334	134	4	20	45-142	
Methacrylonitrile	250	327	131	2	20	47-142	
Methyl methacrylate	50.0	43.6	87	1	20	60-131	
Propionitrile	250	256	102	5	20	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MS1_2878.D
 Lab ID: LCSD 280-621922/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	44.7	89	1	20	74-121	
1,1,1-Trichloroethane	50.0	48.2	96	2	20	62-132	
1,1,2,2-Tetrachloroethane	50.0	49.4	99	1	20	72-122	
1,1,2-Trichloroethane	50.0	46.9	94	2	20	72-128	
1,1-Dichloroethane	50.0	47.6	95	1	20	66-130	
1,1-Dichloroethene	50.0	44.4	89	1	21	62-130	
1,1-Dichloropropene	50.0	45.5	91	3	20	64-133	
1,2,3-Trichloropropane	50.0	44.6	89	1	20	74-123	
1,2-Dibromo-3-Chloropropane	50.0	40.2	80	4	21	58-122	
1,2-Dichlorobenzene	50.0	45.3	91	0	20	77-121	
1,2-Dichloroethane	50.0	46.1	92	1	20	61-130	
1,2-Dichloropropane	50.0	45.2	90	1	20	68-127	
1,3-Dichlorobenzene	50.0	47.6	95	2	20	76-121	
1,3-Dichloropropane	50.0	49.8	100	2	20	80-118	
1,4-Dichlorobenzene	50.0	45.4	91	0	20	76-119	
2,2-Dichloropropane	50.0	48.4	97	5	22	57-140	
2-Hexanone	200	188	94	2	21	58-134	
4-Methyl-2-pentanone (MIBK)	200	193	97	3	20	56-135	
Acetone	200	190	95	14	21	50-137	
Benzene	50.0	44.7	89	2	20	69-126	
Bromoform	50.0	40.1	80	2	20	57-125	
Bromomethane	50.0	46.1	92	15	40	25-163	
Carbon disulfide	50.0	41.9	84	5	20	56-128	
Carbon tetrachloride	50.0	43.1	86	3	20	60-133	
Chlorobenzene	50.0	45.8	92	1	20	78-118	
Chlorobromomethane	50.0	48.3	97	3	20	71-130	
Chlorodibromomethane	50.0	43.7	87	0	20	71-122	
Chloroethane	50.0	48.4	97	2	30	52-144	
Chloroform	50.0	49.7	99	2	20	68-128	
Chloromethane	50.0	48.0	96	0	20	43-142	
cis-1,2-Dichloroethene	50.0	48.2	96	3	20	69-126	
cis-1,3-Dichloropropene	50.0	46.8	94	3	20	75-120	
Dibromomethane	50.0	45.8	92	3	20	68-129	
Dichlorobromomethane	50.0	44.8	90	3	20	67-126	
Dichlorodifluoromethane	50.0	46.6	93	2	21	26-152	
Ethylbenzene	50.0	45.1	90	0	20	76-121	
Iodomethane	50.0	48.2	96	10	38	37-145	
Isobutyl alcohol	1250	1170	93	7	30	46-132	
Methylene Chloride	50.0	49.6	99	2	20	64-128	
m-Xylene & p-Xylene	50.0	47.8	96	0	20	76-122	
o-Xylene	50.0	45.2	90	0	20	77-120	
Styrene	50.0	46.1	92	1	20	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MS1_2878.D
 Lab ID: LCSD 280-621922/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Tetrachloroethene	50.0	44.5	89	0	20	72-127	
Toluene	50.0	47.1	94	2	20	68-127	
trans-1,2-Dichloroethene	50.0	47.3	95	4	20	66-129	
trans-1,3-Dichloropropene	50.0	45.4	91	2	20	66-127	
Trichloroethene	50.0	47.9	96	0	20	70-125	
Trichlorofluoromethane	50.0	46.4	93	2	28	57-144	
Vinyl acetate	100	127	127	0	23	61-139	
Vinyl chloride	50.0	48.2	96	6	25	53-141	
Xylenes, Total	100	93.0	93	0	20	77-120	
2-Butanone (MEK)	200	187	93	12	20	53-135	
Acrolein	494	450	91	6	23	10-207	
Acrylonitrile	500	467	93	6	20	65-133	
1,2-Dibromoethane	50.0	45.6	91	2	20	81-118	
1,2,4-Trichlorobenzene	50.0	45.7	91	3	20	73-124	
Allyl chloride	50.0	48.9	98	4	20	57-136	
Ethyl methacrylate	50.0	46.6	93	0	20	69-126	
trans-1,4-Dichloro-2-butene	50.0	44.7	89	0	24	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: MS1_2879.D
 Lab ID: LCSD 280-621922/7 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Chloroprene	25.0	25.7	103	4	20	53-147	
Acetonitrile	250	212	85	1	20	45-142	
Methacrylonitrile	250	214	86	1	20	47-142	
Methyl methacrylate	50.0	42.6	85	3	20	60-131	
Propionitrile	250	208	83	0	20	52-138	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: R_6808.D

Lab ID: 280-179478-4 MS Client ID: RW-8048P-20230721 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50.0	ND	48.4	97	74-121	
1,1,1-Trichloroethane	50.0	ND	51.6	103	62-132	
1,1,2,2-Tetrachloroethane	50.0	ND	50.8	102	72-122	
1,1,2-Trichloroethane	50.0	ND	49.6	99	72-128	
1,1-Dichloroethane	50.0	ND	48.7	97	66-130	
1,1-Dichloroethene	50.0	ND	45.9	92	62-130	
1,1-Dichloropropene	50.0	ND	50.7	101	64-133	
1,2,3-Trichloropropane	50.0	ND	48.6	97	74-123	
1,2-Dibromo-3-Chloropropane	50.0	ND	42.5	85	58-122	
1,2-Dichlorobenzene	50.0	ND	48.5	97	77-121	
1,2-Dichloroethane	50.0	ND	51.0	102	61-130	
1,2-Dichloropropane	50.0	ND	49.7	99	68-127	
1,3-Dichlorobenzene	50.0	ND	47.3	95	76-121	
1,3-Dichloropropane	50.0	ND	50.7	101	80-118	
1,4-Dichlorobenzene	50.0	ND	46.2	92	76-119	
2,2-Dichloropropane	50.0	ND	49.3	99	57-140	
2-Hexanone	200	ND	203	102	58-134	
4-Methyl-2-pentanone (MIBK)	200	ND	200	100	56-135	
Acetone	200	ND	181	91	50-137	
Benzene	50.0	ND	48.6	97	69-126	
Bromoform	50.0	ND	48.1	96	57-125	
Bromomethane	50.0	ND	35.0	70	25-163	
Carbon disulfide	50.0	ND	40.9	82	56-128	
Carbon tetrachloride	50.0	ND	52.3	105	60-133	
Chlorobenzene	50.0	ND	46.8	94	78-118	
Chlorobromomethane	50.0	ND	49.4	99	71-130	
Chlorodibromomethane	50.0	ND	49.4	99	71-122	
Chloroethane	50.0	ND	40.7	81	52-144	
Chloroform	50.0	ND	50.1	100	68-128	
Chloromethane	50.0	ND	36.9	74	43-142	*1
cis-1,2-Dichloroethene	50.0	ND	47.4	95	69-126	
cis-1,3-Dichloropropene	50.0	ND	48.6	97	75-120	
Dibromomethane	50.0	ND	48.9	98	68-129	
Dichlorobromomethane	50.0	ND	51.0	102	67-126	
Dichlorodifluoromethane	50.0	ND	33.7	67	26-152	*1
Ethylbenzene	50.0	ND	47.7	95	76-121	
Iodomethane	50.0	ND	38.3	77	37-145	
Isobutyl alcohol	1250	ND	1200	96	46-132	
Methylene Chloride	50.0	ND	45.5	91	64-128	
m-Xylene & p-Xylene	50.0	ND	48.2	96	76-122	
o-Xylene	50.0	ND	49.9	100	77-120	
Styrene	50.0	ND	51.1	102	79-120	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6808.D
 Lab ID: 280-179478-4 MS Client ID: RW-8048P-20230721 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Tetrachloroethene	50.0	ND	48.6	97	72-127	
Toluene	50.0	ND	47.8	96	68-127	
trans-1,2-Dichloroethene	50.0	ND	46.0	92	66-129	
trans-1,3-Dichloropropene	50.0	ND	50.2	100	66-127	
Trichloroethene	50.0	3.9	49.8	92	70-125	
Trichlorofluoromethane	50.0	ND	43.6	87	57-144	
Vinyl acetate	100	ND	102	102	61-139	
Vinyl chloride	50.0	ND	39.6	79	53-141	
Xylenes, Total	100	ND	98.1	98	77-120	
2-Butanone (MEK)	200	ND	210	105	53-135	
Acrolein	494	ND	504	102	10-207	
Acrylonitrile	500	ND	515	103	65-133	
1,2-Dibromoethane	50.0	ND	49.0	98	81-118	
1,2,4-Trichlorobenzene	50.0	ND	42.1	84	73-124	
Allyl chloride	50.0	ND	45.5	91	57-136	
Ethyl methacrylate	50.0	ND	47.9	96	69-126	
trans-1,4-Dichloro-2-butene	50.0	ND	50.1	100	44-131	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Denver

Job No.: 280-179478-1

SDG No.: _____

Matrix: Water

Level: Low

Lab File ID: R_6809.D

Lab ID: 280-179478-4 MSD

Client ID: RW-8048P-20230721 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1,2-Tetrachloroethane	50.0	47.9	96	1	20	74-121	
1,1,1-Trichloroethane	50.0	47.6	95	8	20	62-132	
1,1,2,2-Tetrachloroethane	50.0	47.7	95	6	20	72-122	
1,1,2-Trichloroethane	50.0	48.3	97	3	20	72-128	
1,1-Dichloroethane	50.0	47.3	95	3	20	66-130	
1,1-Dichloroethene	50.0	41.9	84	9	21	62-130	
1,1-Dichloropropene	50.0	47.2	94	7	20	64-133	
1,2,3-Trichloropropane	50.0	46.4	93	5	20	74-123	
1,2-Dibromo-3-Chloropropane	50.0	39.9	80	6	21	58-122	
1,2-Dichlorobenzene	50.0	46.9	94	3	20	77-121	
1,2-Dichloroethane	50.0	50.2	100	2	20	61-130	
1,2-Dichloropropane	50.0	49.5	99	0	20	68-127	
1,3-Dichlorobenzene	50.0	45.8	92	3	20	76-121	
1,3-Dichloropropane	50.0	49.1	98	3	20	80-118	
1,4-Dichlorobenzene	50.0	45.1	90	2	20	76-119	
2,2-Dichloropropane	50.0	45.5	91	8	22	57-140	
2-Hexanone	200	183	92	10	21	58-134	
4-Methyl-2-pentanone (MIBK)	200	182	91	9	20	56-135	
Acetone	200	164	82	10	21	50-137	
Benzene	50.0	46.7	93	4	20	69-126	
Bromoform	50.0	45.9	92	5	20	57-125	
Bromomethane	50.0	39.0	78	11	40	25-163	
Carbon disulfide	50.0	38.2	76	7	20	56-128	
Carbon tetrachloride	50.0	47.4	95	10	20	60-133	
Chlorobenzene	50.0	46.0	92	2	20	78-118	
Chlorobromomethane	50.0	49.6	99	0	20	71-130	
Chlorodibromomethane	50.0	48.0	96	3	20	71-122	
Chloroethane	50.0	46.4	93	13	30	52-144	
Chloroform	50.0	48.6	97	3	20	68-128	
Chloromethane	50.0	42.6	85	14	20	43-142	*1
cis-1,2-Dichloroethene	50.0	46.6	93	2	20	69-126	
cis-1,3-Dichloropropene	50.0	48.1	96	1	20	75-120	
Dibromomethane	50.0	48.2	96	1	20	68-129	
Dichlorobromomethane	50.0	49.6	99	3	20	67-126	
Dichlorodifluoromethane	50.0	42.8	86	24	21	26-152	F2 *1
Ethylbenzene	50.0	46.8	94	2	20	76-121	
Iodomethane	50.0	42.3	85	10	38	37-145	
Isobutyl alcohol	1250	1070	86	11	30	46-132	
Methylene Chloride	50.0	45.0	90	1	20	64-128	
m-Xylene & p-Xylene	50.0	47.3	95	2	20	76-122	
o-Xylene	50.0	48.6	97	3	20	77-120	
Styrene	50.0	50.1	100	2	20	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: R_6809.D
 Lab ID: 280-179478-4 MSD Client ID: RW-8048P-20230721 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Tetrachloroethene	50.0	46.1	92	5	20	72-127	
Toluene	50.0	45.7	91	5	20	68-127	
trans-1,2-Dichloroethene	50.0	43.7	87	5	20	66-129	
trans-1,3-Dichloropropene	50.0	49.6	99	1	20	66-127	
Trichloroethene	50.0	47.7	88	4	20	70-125	
Trichlorofluoromethane	50.0	53.4	107	20	28	57-144	
Vinyl acetate	100	97.8	98	4	23	61-139	
Vinyl chloride	50.0	48.8	98	21	25	53-141	
Xylenes, Total	100	95.9	96	2	20	77-120	
2-Butanone (MEK)	200	186	93	12	20	53-135	
Acrolein	494	467	95	8	23	10-207	
Acrylonitrile	500	481	96	7	20	65-133	
1,2-Dibromoethane	50.0	48.3	97	1	20	81-118	
1,2,4-Trichlorobenzene	50.0	42.3	85	1	20	73-124	
Allyl chloride	50.0	44.1	88	3	20	57-136	
Ethyl methacrylate	50.0	45.3	91	6	20	69-126	
trans-1,4-Dichloro-2-butene	50.0	44.6	89	12	24	44-131	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab File ID: ms11_00000554.D Lab Sample ID: MB 280-621653/9
 Matrix: Water Heated Purge: (Y/N) Y
 Instrument ID: VMS_MS11 Date Analyzed: 08/03/2023 10:19
 GC Column: RXI-624SilMS ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-621653/6	ms11_000005 49B.D	08/03/2023 06:24
	LCS 280-621653/4	ms11_000005 50A.D	08/03/2023 06:47
	LCSD 280-621653/5	ms11_000005 51.D	08/03/2023 07:25
	LCSD 280-621653/7	ms11_000005 52.D	08/03/2023 09:36
EB-03-20230722	280-179478-15	ms11_000005 57.D	08/03/2023 11:23
RW-8284P-20230720	280-179478-1	ms11_000005 64.D	08/03/2023 13:53
RW-2076F-20230721	280-179478-2	ms11_000005 65.D	08/03/2023 14:15
RW-2172H-20230721	280-179478-3	ms11_000005 66.D	08/03/2023 14:36
RW-8012P-20230721	280-179478-5	ms11_000005 67.D	08/03/2023 14:57
RW-7677P-20230721	280-179478-6	ms11_000005 68.D	08/03/2023 15:19
RW-2213F-20230721	280-179478-7	ms11_000005 69.D	08/03/2023 15:40
RW-7773P-20230721	280-179478-8	ms11_000005 70.D	08/03/2023 16:02
RW-7549P-20230721	280-179478-9	ms11_000005 71.D	08/03/2023 16:23
PA-4-100-110-20230722	280-179478-10	ms11_000005 72.D	08/03/2023 16:45

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: R_6792.D Lab Sample ID: MB 280-621775/9
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: VMS_R1 Date Analyzed: 08/03/2023 18:17
GC Column: DB-624 (60.25) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-621775/4	R_6787bb.D	08/03/2023 16:12
	LCS 280-621775/5	R_6788b.D	08/03/2023 16:33
	LCSD 280-621775/6	R_6789.D	08/03/2023 17:14
	LCSD 280-621775/7	R_6790.D	08/03/2023 17:35
RW-8048P-20230721	280-179478-4	R_6796.D	08/03/2023 19:53
PA-1-20230722	280-179478-14	R_6800.D	08/03/2023 21:17
PA-1-Q-20230722	280-179478-16	R_6801.D	08/03/2023 21:37
RW-8048P-20230721 MS	280-179478-4 MS	R_6808.D	08/04/2023 00:03
RW-8048P-20230721 MSD	280-179478-4 MSD	R_6809.D	08/04/2023 00:24

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: R_6849.D Lab Sample ID: MB 280-621894/9
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: VMS_R1 Date Analyzed: 08/04/2023 18:03
GC Column: DB-624 (60.25) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-621894/4	R_6844c.D	08/04/2023 15:54
	LCS 280-621894/5	R_6845b.D	08/04/2023 16:16
	LCSD 280-621894/6	R_6846.D	08/04/2023 17:00
	LCSD 280-621894/7	R_6847.D	08/04/2023 17:21
TB-02-20230723	280-179478-11	R_6854.D	08/04/2023 19:31
PA-8-77-87-20230723	280-179478-12	R_6866.D	08/04/2023 23:41

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: MS1_2881.D Lab Sample ID: MB 280-621922/9
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: VMS_MS1 Date Analyzed: 08/04/2023 20:04
GC Column: DB-624 (60.25) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 280-621922/4	MS1_2876a.D	08/04/2023 18:19
	LCS 280-621922/5	MS1_2877a.D	08/04/2023 18:40
	LCSD 280-621922/6	MS1_2878.D	08/04/2023 19:01
	LCSD 280-621922/7	MS1_2879.D	08/04/2023 19:22
MW-116S-20230723	280-179478-13	MS1_2896.D	08/05/2023 01:41

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: MS1_4145.D BFB Injection Date: 12/28/2022
Instrument ID: VMS_MS1 BFB Injection Time: 07:14
Analysis Batch No.: 597846

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.4
75	30.0 - 60.0 % of mass 95	54.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	72.3
175	5.0 - 9.0 % of mass 174	5.9 (8.1) 1
176	95.0 - 101.0 % of mass 174	71.1 (98.4) 1
177	5.0 - 9.0 % of mass 176	4.7 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 280-597846/12	MS1_4150.D	12/28/2022	11:59
	STD2 280-597846/13	MS1_4151.D	12/28/2022	12:21
	STD5 280-597846/14	MS1_4152.D	12/28/2022	12:43
	STD10 280-597846/15	MS1_4153.D	12/28/2022	13:05
	STD50 280-597846/16	MS1_4154.D	12/28/2022	13:27
	STD75 280-597846/17	MS1_4155.D	12/28/2022	13:49
	STD100 280-597846/18	MS1_4156.D	12/28/2022	14:11
	STD200 280-597846/19	MS1_4157.D	12/28/2022	14:33
	ICV 280-597846/20	MS1_4158.D	12/28/2022	14:55

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: MS1_2672.D BFB Injection Date: 08/01/2023
Instrument ID: VMS_MS1 BFB Injection Time: 08:14
Analysis Batch No.: 621383

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.4
75	30.0 - 60.0 % of mass 95	49.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	75.4
175	5.0 - 9.0 % of mass 174	6.0 (8.0) 1
176	95.0 - 101.0 % of mass 174	73.2 (97.1) 1
177	5.0 - 9.0 % of mass 176	4.8 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-621383/13	MS1_2676.D	08/01/2023	9:52
	IC 280-621383/14	MS1_2677.D	08/01/2023	10:13
	IC 280-621383/15	MS1_2678.D	08/01/2023	10:34
	ICIS 280-621383/16	MS1_2679.D	08/01/2023	10:55
	IC 280-621383/17	MS1_2680.D	08/01/2023	11:17
	IC 280-621383/18	MS1_2681.D	08/01/2023	11:38
	IC 280-621383/19	MS1_2682.D	08/01/2023	11:59
	IC 280-621383/20	MS1_2683.D	08/01/2023	12:21
	IC 280-621383/21	MS1_2684.D	08/01/2023	12:42
	ICV 280-621383/22	MS1_2685.D	08/01/2023	13:03

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: MS1_2875a.D BFB Injection Date: 08/04/2023
Instrument ID: VMS_MS1 BFB Injection Time: 17:58
Analysis Batch No.: 621922

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.7
75	30.0 - 60.0 % of mass 95	51.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	69.7
175	5.0 - 9.0 % of mass 174	5.5 (7.9) 1
176	95.0 - 101.0 % of mass 174	68.6 (98.4) 1
177	5.0 - 9.0 % of mass 176	4.8 (7.0) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-621922/2	MS1_2876.D	08/04/2023	18:19
	LCS 280-621922/4	MS1_2876a.D	08/04/2023	18:19
	CCV 280-621922/3	MS1_2877.D	08/04/2023	18:40
	LCS 280-621922/5	MS1_2877a.D	08/04/2023	18:40
	LCSD 280-621922/6	MS1_2878.D	08/04/2023	19:01
	LCSD 280-621922/7	MS1_2879.D	08/04/2023	19:22
	MB 280-621922/9	MS1_2881.D	08/04/2023	20:04
MW-116S-20230723	280-179478-13	MS1_2896.D	08/05/2023	1:41

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: ms11_7984.D BFB Injection Date: 06/19/2023
Instrument ID: VMS_MS11 BFB Injection Time: 07:01
Analysis Batch No.: 616689

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.8
75	30.0 - 60.0 % of mass 95	51.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	74.5
175	5.0 - 9.0 % of mass 174	5.8 (7.8) 1
176	95.0 - 101.0 % of mass 174	72.5 (97.2) 1
177	5.0 - 9.0 % of mass 176	4.9 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD 280-616689/21	ms11_7996.D	06/19/2023	11:51
	STD 280-616689/22	ms11_7997.D	06/19/2023	12:13
	STD 280-616689/23	ms11_7998.D	06/19/2023	12:34
	STD 280-616689/24	ms11_7999.D	06/19/2023	12:56
	STD 280-616689/25	ms11_8000.D	06/19/2023	13:17
	STD 280-616689/26	ms11_8001.D	06/19/2023	13:39
	STD 280-616689/27	ms11_8002.D	06/19/2023	14:00
	STD 280-616689/28	ms11_8003.D	06/19/2023	14:22
	ICV 280-616689/29	ms11_8004.D	06/19/2023	14:43

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: ms11_00000431A.D BFB Injection Date: 08/01/2023
Instrument ID: VMS_MS11 BFB Injection Time: 07:18
Analysis Batch No.: 621390

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.6
75	30.0 - 60.0 % of mass 95	51.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	86.9
175	5.0 - 9.0 % of mass 174	7.1 (8.1) 1
176	95.0 - 101.0 % of mass 174	84.5 (97.2) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-621390/13	ms11_00000432	08/01/2023	7:39
	IC 280-621390/14	ms11_00000433	08/01/2023	8:00
	IC 280-621390/15	ms11_00000434	08/01/2023	8:22
	ICIS 280-621390/16	ms11_00000435	08/01/2023	8:43
	IC 280-621390/17	ms11_00000436	08/01/2023	9:05
	IC 280-621390/18	ms11_00000437	08/01/2023	9:26
	IC 280-621390/19	ms11_00000438	08/01/2023	9:47
	IC 280-621390/20	ms11_00000439	08/01/2023	10:09
	IC 280-621390/21	ms11_00000440	08/01/2023	10:30
	ICV 280-621390/22	ms11_00000441	08/01/2023	10:51

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: ms11_00000549A.D BFB Injection Date: 08/03/2023
Instrument ID: VMS_MS11 BFB Injection Time: 06:24
Analysis Batch No.: 621653

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	23.5
75	30.0 - 60.0 % of mass 95	54.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	83.2
175	5.0 - 9.0 % of mass 174	7.2 (8.6) 1
176	95.0 - 101.0 % of mass 174	80.7 (97.0) 1
177	5.0 - 9.0 % of mass 176	5.4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-621653/3	ms11_00000549	08/03/2023	6:24
	LCS 280-621653/6	ms11_00000549	08/03/2023	6:24
	CCV 280-621653/2	ms11_00000550	08/03/2023	6:47
	LCS 280-621653/4	ms11_00000550	08/03/2023	6:47
	LCSD 280-621653/5	ms11_00000551	08/03/2023	7:25
	LCSD 280-621653/7	ms11_00000552	08/03/2023	9:36
	MB 280-621653/9	ms11_00000554	08/03/2023	10:19
EB-03-20230722	280-179478-15	ms11_00000557	08/03/2023	11:23
RW-8284P-20230720	280-179478-1	ms11_00000564	08/03/2023	13:53
RW-2076F-20230721	280-179478-2	ms11_00000565	08/03/2023	14:15
RW-2172H-20230721	280-179478-3	ms11_00000566	08/03/2023	14:36
RW-8012P-20230721	280-179478-5	ms11_00000567	08/03/2023	14:57
RW-7677P-20230721	280-179478-6	ms11_00000568	08/03/2023	15:19
RW-2213F-20230721	280-179478-7	ms11_00000569	08/03/2023	15:40
RW-7773P-20230721	280-179478-8	ms11_00000570	08/03/2023	16:02
RW-7549P-20230721	280-179478-9	ms11_00000571	08/03/2023	16:23
PA-4-100-110-20230722	280-179478-10	ms11_00000572	08/03/2023	16:45

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: R3107.D BFB Injection Date: 03/29/2022
Instrument ID: VMS_R1 BFB Injection Time: 15:57
Analysis Batch No.: 570124

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.8
75	30.0 - 60.0 % of mass 95	52.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.4 (0.5) 1
174	Greater than 50% of mass 95	84.4
175	5.0 - 9.0 % of mass 174	6.1 (7.2) 1
176	95.0 - 101.0 % of mass 174	80.3 (95.2) 1
177	5.0 - 9.0 % of mass 176	5.2 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 280-570124/14	R3108.D	03/29/2022	17:08
	STD2 280-570124/15	R3109.D	03/29/2022	17:29
	STD5 280-570124/16	R3110.D	03/29/2022	17:51
	STD10 280-570124/17	R3111.D	03/29/2022	18:13
	STD50 280-570124/18	R3112.D	03/29/2022	18:35
	STD75 280-570124/19	R3113.D	03/29/2022	18:57
	STD100 280-570124/20	R3114.D	03/29/2022	19:18
	STD200 280-570124/21	R3115.D	03/29/2022	19:40
	ICV 280-570124/22	R3117.D	03/29/2022	20:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: R_6567.D BFB Injection Date: 07/30/2023
Instrument ID: VMS_R1 BFB Injection Time: 15:30
Analysis Batch No.: 621220

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.3
75	30.0 - 60.0 % of mass 95	51.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	71.5
175	5.0 - 9.0 % of mass 174	5.9 (8.3) 1
176	95.0 - 101.0 % of mass 174	68.6 (96.0) 1
177	5.0 - 9.0 % of mass 176	4.7 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 280-621220/13	R_6570.D	07/30/2023	16:32
	IC 280-621220/14	R_6571.D	07/30/2023	16:53
	IC 280-621220/15	R_6572.D	07/30/2023	17:14
	ICIS 280-621220/16	R_6573.D	07/30/2023	17:35
	IC 280-621220/17	R_6574.D	07/30/2023	17:56
	IC 280-621220/18	R_6575.D	07/30/2023	18:16
	IC 280-621220/19	R_6576.D	07/30/2023	18:37
	IC 280-621220/20	R_6577.D	07/30/2023	18:58
	IC 280-621220/21	R_6578.D	07/30/2023	19:19
	ICV 280-621220/22	R_6579.D	07/30/2023	19:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: R_6787c.D BFB Injection Date: 08/03/2023
Instrument ID: VMS_R1 BFB Injection Time: 16:12
Analysis Batch No.: 621775

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.2
75	30.0 - 60.0 % of mass 95	51.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	Greater than 50% of mass 95	71.6
175	5.0 - 9.0 % of mass 174	5.5 (7.7) 1
176	95.0 - 101.0 % of mass 174	68.8 (96.0) 1
177	5.0 - 9.0 % of mass 176	4.3 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-621775/2	R_6787aa.D	08/03/2023	16:12
	LCS 280-621775/4	R_6787bb.D	08/03/2023	16:12
	CCV 280-621775/3	R_6788a.D	08/03/2023	16:33
	LCS 280-621775/5	R_6788b.D	08/03/2023	16:33
	LCSD 280-621775/6	R_6789.D	08/03/2023	17:14
	LCSD 280-621775/7	R_6790.D	08/03/2023	17:35
	MB 280-621775/9	R_6792.D	08/03/2023	18:17
RW-8048P-20230721	280-179478-4	R_6796.D	08/03/2023	19:53
PA-1-20230722	280-179478-14	R_6800.D	08/03/2023	21:17
PA-1-Q-20230722	280-179478-16	R_6801.D	08/03/2023	21:37
RW-8048P-20230721 MS	280-179478-4 MS	R_6808.D	08/04/2023	0:03
RW-8048P-20230721 MSD	280-179478-4 MSD	R_6809.D	08/04/2023	0:24

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab File ID: R_6844a.D BFB Injection Date: 08/04/2023
Instrument ID: VMS_R1 BFB Injection Time: 15:54
Analysis Batch No.: 621894

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	22.4
75	30.0 - 60.0 % of mass 95	54.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.6 (0.8) 1
174	Greater than 50% of mass 95	72.8
175	5.0 - 9.0 % of mass 174	6.2 (8.6) 1
176	95.0 - 101.0 % of mass 174	70.3 (96.5) 1
177	5.0 - 9.0 % of mass 176	4.3 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 280-621894/2	R_6844b.D	08/04/2023	15:54
	LCS 280-621894/4	R_6844c.D	08/04/2023	15:54
	CCV 280-621894/3	R_6845a.D	08/04/2023	16:16
	LCS 280-621894/5	R_6845b.D	08/04/2023	16:16
	LCSD 280-621894/6	R_6846.D	08/04/2023	17:00
	LCSD 280-621894/7	R_6847.D	08/04/2023	17:21
	MB 280-621894/9	R_6849.D	08/04/2023	18:03
TB-02-20230723	280-179478-11	R_6854.D	08/04/2023	19:31
PA-8-77-87-20230723	280-179478-12	R_6866.D	08/04/2023	23:41

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Sample No.: ICIS 280-621383/16 Date Analyzed: 08/01/2023 10:55
 Instrument ID: VMS_MS1 GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Lab File ID (Standard): MS1_2679.D Heated Purge: (Y/N) N
 Calibration ID: 83092

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1619392	6.03	389086	8.77	615052	11.05
UPPER LIMIT		3238784	6.53	778172	9.27	1230104	11.55
LOWER LIMIT		809696	5.53	194543	8.27	307526	10.55
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-621383/22		1474823	6.03	361043	8.77	569515	11.05
CCV 280-621922/2		1383351	6.03	345471	8.77	542111	11.06
LCS 280-621922/4		1383351	6.03	345471	8.77	542111	11.06
LCS 280-621922/5		1362149	6.03	335286	8.77	524295	11.05
CCV 280-621922/3		1362149	6.03	335286	8.77	524295	11.05
LCSD 280-621922/6		1449606	6.03	352435	8.77	553567	11.05
LCSD 280-621922/7		1359095	6.03	342337	8.77	537808	11.06
MB 280-621922/9		1373307	6.03	341877	8.77	529161	11.05
280-179478-13	MW-116S-20230723	1358343	6.03	349519	8.77	528747	11.06

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Sample No.: ICIS 280-621390/16 Date Analyzed: 08/01/2023 08:43
 Instrument ID: VMS_MS11 GC Column: RXI-624SilMS ID: 0.25 (mm)
 Lab File ID (Standard): ms11_00000435.D Heated Purge: (Y/N) Y
 Calibration ID: 83072

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2001055	5.08	536814	7.57	984513	9.77
UPPER LIMIT		4002110	5.58	1073628	8.07	1969026	10.27
LOWER LIMIT		1000528	4.58	268407	7.07	492257	9.27
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-621390/22		1910286	5.08	524251	7.57	953965	9.77
CCV 280-621653/3		1624310	5.07	432358	7.57	767610	9.76
LCS 280-621653/6		1629452	5.07	432358	7.57	767610	9.76
LCS 280-621653/4		1677125	5.08	440686	7.57	781299	9.76
CCV 280-621653/2		1677125	5.08	440686	7.57	781299	9.76
LCSD 280-621653/5		1732458	5.07	461146	7.57	818610	9.76
LCSD 280-621653/7		1633257	5.07	444580	7.57	755807	9.76
MB 280-621653/9		1677867	5.08	437921	7.57	757392	9.76
280-179478-15	EB-03-20230722	1683220	5.08	431180	7.57	748521	9.76
280-179478-1	RW-8284P-20230720	1621710	5.08	417050	7.57	726279	9.77
280-179478-2	RW-2076F-20230721	1630228	5.08	421998	7.57	735481	9.76
280-179478-3	RW-2172H-20230721	1647721	5.08	420539	7.57	738931	9.77
280-179478-5	RW-8012P-20230721	1634067	5.08	423335	7.57	732249	9.76
280-179478-6	RW-7677P-20230721	1664553	5.08	430339	7.57	740065	9.76
280-179478-7	RW-2213F-20230721	1627388	5.08	423278	7.57	728471	9.76
280-179478-8	RW-7773P-20230721	1619067	5.08	412588	7.57	721381	9.76
280-179478-9	RW-7549P-20230721	1592158	5.08	414588	7.57	724687	9.76
280-179478-10	PA-4-100-110-20230722	1604023	5.08	418307	7.57	727042	9.77

FB = Fluorobenzene

CBNZd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Sample No.: ICIS 280-621220/16 Date Analyzed: 07/30/2023 17:35
 Instrument ID: VMS_R1 GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Lab File ID (Standard): R_6573.D Heated Purge: (Y/N) N
 Calibration ID: 82942

		FB		CBNzd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2317582	4.82	571323	7.32	917352	9.54
UPPER LIMIT		4635164	5.32	1142646	7.82	1834704	10.04
LOWER LIMIT		1158791	4.32	285662	6.82	458676	9.04
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 280-621220/22		2172322	4.82	541412	7.32	871566	9.54
CCV 280-621775/2		1989859	4.81	489881	7.32	788548	9.54
LCS 280-621775/4		1989859	4.81	489881	7.32	788548	9.54
LCS 280-621775/5		1961989	4.82	474990	7.32	715399	9.54
CCV 280-621775/3		1961989	4.82	474990	7.32	715399	9.54
LCSD 280-621775/6		1952624	4.81	487761	7.32	779763	9.54
LCSD 280-621775/7		1949251	4.81	479291	7.32	718096	9.54
MB 280-621775/9		1829089	4.81	440179	7.32	660337	9.54
280-179478-4	RW-8048P-20230721	1863819	4.81	447796	7.32	648637	9.54
280-179478-14	PA-1-20230722	1644030	4.81	405361	7.32	578229	9.54
280-179478-16	PA-1-Q-20230722	1660591	4.81	404591	7.32	592832	9.54
280-179478-4 MS	RW-8048P-20230721 MS	1828579	4.81	455214	7.32	725506	9.54
280-179478-4 MSD	RW-8048P-20230721 MSD	1869475	4.81	464947	7.32	743058	9.54
CCV 280-621894/2		1816066	4.81	459352	7.32	733743	9.54
LCS 280-621894/4		1816066	4.81	459352	7.32	733743	9.54
LCS 280-621894/5		1816186	4.81	451738	7.32	670143	9.54
CCV 280-621894/3		1816186	4.81	451738	7.32	670143	9.54
LCSD 280-621894/6		1816823	4.81	457687	7.32	758214	9.54
LCSD 280-621894/7		1833341	4.81	451669	7.32	669208	9.54
MB 280-621894/9		1684740	4.81	417092	7.32	629736	9.54
280-179478-11	TB-02-20230723	1614272	4.81	396466	7.32	587492	9.54
280-179478-12	PA-8-77-87-20230723	1605343	4.81	395368	7.32	598096	9.54

FB = Fluorobenzene

CBNzd5 = Chlorobenzene-d5

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8284P-20230720</u>	Lab Sample ID: <u>280-179478-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000564.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 16:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 13:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8284P-20230720</u>	Lab Sample ID: <u>280-179478-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000564.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/20/2023 16:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 13:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	1.5		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: RW-8284P-20230720 Lab Sample ID: 280-179478-1
Matrix: Water Lab File ID: ms11_00000564.D
Analysis Method: 8260D Date Collected: 07/20/2023 16:35
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 13:53
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	106		78-120
2037-26-5	Toluene-d8 (Surr)	105		80-125
1868-53-7	Dibromofluoromethane (Surr)	98		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000564.D
 Lims ID: 280-179478-B-1
 Client ID: RW-8284P-20230720
 Sample Type: Client
 Inject. Date: 03-Aug-2023 13:53:30 ALS Bottle#: 16 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-B-1
 Misc. Info.: 280-0124144-022
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:05:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.081	5.082	-0.001	98	1621710	50.0	
* 2 Chlorobenzene-d5	119	7.567	7.568	-0.001	90	417050	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.774	9.760	0.014	97	726279	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	443381	49.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	626091	53.6	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1768211	52.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	93	661229	52.9	
\$ 8 BFB	95	8.657	8.643	0.014	93	662056	NR	
9 Dichlorodifluoromethane	85		1.702				ND	
10 Chloromethane	50		1.883				ND	U
11 Vinyl chloride	62		1.981				ND	
12 Bromomethane	94		2.246				ND	U
13 Chloroethane	64		2.344				ND	7
14 Dichlorofluoromethane	67		2.526				ND	
15 Trichlorofluoromethane	101		2.554				ND	
16 Ethanol	45		2.679				ND	
17 Ethyl ether	59		2.763				ND	
18 Acrolein	56		2.875				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.959				ND	
19 1,1-Dichloroethene	96		2.959				ND	
21 Acetone	43		2.973				ND	7
22 Isopropyl alcohol	45		3.056				ND	
23 Iodomethane	142		3.084				ND	
24 Carbon disulfide	76		3.140				ND	7
25 Acetonitrile	41		3.182				ND	
26 Methyl acetate	43		3.196				ND	
27 3-Chloro-1-propene	41		3.224				ND	
28 Methylene Chloride	84		3.308				ND	U
29 2-Methyl-2-propanol	59		3.364				ND	
30 Acrylonitrile	53		3.476				ND	
31 Methyl tert-butyl ether	73		3.489				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.517				ND	
33 Hexane	57		3.699				ND	U
34 Vinyl acetate	43		3.797				ND	
36 Isopropyl ether	87		3.825				ND	
35 1,1-Dichloroethane	63		3.825				ND	
37 2-Chloro-1,3-butadiene	53		3.867				ND	
38 Tert-butyl ethyl ether	59		4.076				ND	
39 2-Butanone (MEK)	43		4.202				ND	
40 Ethyl acetate	43		4.216				ND	
41 cis-1,2-Dichloroethene	96		4.230				ND	
43 Propionitrile	54		4.244				ND	
42 2,2-Dichloropropane	77		4.244				ND	
44 sec-Butyl Alcohol	45		4.313				ND	
45 Methacrylonitrile	41		4.355				ND	
46 Chlorobromomethane	128		4.411				ND	
47 Tetrahydrofuran	42		4.411				ND	
48 Chloroform	83		4.467				ND	
49 1,1,1-Trichloroethane	97		4.607				ND	
50 Cyclohexane	56		4.663				ND	
51 1,1-Dichloropropene	75		4.719				ND	
52 Carbon tetrachloride	117		4.719				ND	
53 Isobutyl alcohol	43		4.732				ND	U
54 Benzene	78		4.872				ND	
55 1,2-Dichloroethane	62	4.900	4.886	0.014	81	1859	0.1418	
56 Tert-amyl methyl ether	73		4.928				ND	
57 n-Heptane	43		5.040				ND	
58 n-Butanol	56		5.207				ND	
59 Trichloroethene	130	5.347	5.347	0.000	94	13148	1.45	
60 2-Pentanone	43		5.445				ND	
63 Methyl methacrylate	100		5.542				ND	
61 Methylcyclohexane	55		5.543				ND	
62 1,2-Dichloropropane	63		5.543				ND	
64 1,4-Dioxane	88		5.598				ND	
65 Dibromomethane	93		5.626				ND	
66 Dichlorobromomethane	83		5.738				ND	
67 2-Nitropropane	41		5.892				ND	
68 2-Chloroethyl vinyl ether	63		5.934				ND	
69 cis-1,3-Dichloropropene	75		6.087				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185				ND	
71 Toluene	91		6.367				ND	
72 trans-1,3-Dichloropropene	75		6.534				ND	
73 Ethyl methacrylate	69		6.562				ND	
74 1,1,2-Trichloroethane	97		6.716				ND	
75 Tetrachloroethene	164		6.813				ND	
76 1,3-Dichloropropane	76		6.855				ND	
77 2-Hexanone	43		6.869				ND	
78 Chlorodibromomethane	129		7.051				ND	
79 Ethylene Dibromide	107		7.163				ND	
80 1-Chlorohexane	91		7.554				ND	7
81 Chlorobenzene	112		7.596				ND	
82 1,1,1,2-Tetrachloroethane	131		7.665				ND	
83 Ethylbenzene	106		7.665				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 m-Xylene & p-Xylene	91		7.791				ND	
85 o-Xylene	106		8.140				ND	
86 Styrene	104		8.154				ND	
87 Bromoform	173		8.336				ND	
88 Isopropylbenzene	105		8.475				ND	
89 cis-1,4-Dichloro-2-butene	53		8.517				ND	7
90 Cyclohexanone	55		8.573				ND	
91 1,1,2,2-Tetrachloroethane	83		8.755				ND	
93 trans-1,4-Dichloro-2-butene	53		8.797				ND	
92 Bromobenzene	156		8.797				ND	
94 1,2,3-Trichloropropane	110		8.825				ND	
95 N-Propylbenzene	120		8.866				ND	
96 2-Chlorotoluene	126		8.964				ND	
97 1,3,5-Trimethylbenzene	105		9.034				ND	
98 4-Chlorotoluene	126		9.090				ND	
99 tert-Butylbenzene	119		9.341				ND	
100 1,2,4-Trimethylbenzene	105		9.397				ND	
101 sec-Butylbenzene	134		9.565				ND	
102 1,3-Dichlorobenzene	146		9.690				ND	
103 4-Isopropyltoluene	119		9.704				ND	
104 1,4-Dichlorobenzene	146		9.788				ND	
105 1,2,3-Trimethylbenzene	105		9.802				ND	
106 n-Butylbenzene	91		10.109				ND	
107 1,2-Dichlorobenzene	146		10.137				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906				ND	
109 1,3,5-Trichlorobenzene	180		11.101				ND	
110 1,2,4-Trichlorobenzene	180		11.730				ND	
111 Hexachlorobutadiene	225		11.869				ND	
112 Naphthalene	128		11.995				ND	
113 1,2,3-Trichlorobenzene	180		12.204				ND	
114 Methyl cyclohexane TIC	1		0.000				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 1-Chlorohexane TIC	1		0.000				ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
118 Pentachloroethane	167		0.000				ND	
119 t-Amyl alcohol	1		0.000				ND	
120 Ethyl acrylate	55		0.000				ND	
121 Tetrahydrothiophene TIC	1		0.000				ND	
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1		0.000				ND	7
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Trihalomethanes, Total	1		0.000				ND	7
S 126 TAH	1				0		0	7
S 127 Total BTEX	1		0.000				ND	7
T 129 Propene TIC	1		1.369				ND	
T 128 Propene oxide TIC	1		1.369				ND	
T 130 1,3-Butadiene TIC	1		1.985				ND	
T 131 2,3-Dichloro-1-propene TIC	1		6.150				ND	
T 132 4-Ethyltoluene TIC	1		9.345				ND	
T 133 Dicyclopentadiene TIC	1		9.670				ND	
T 134 Dichloroacetonitrile TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:11:58

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000564.D

Injection Date: 03-Aug-2023 13:53:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: 280-179478-B-1

Lab Sample ID: 280-179478-1

Worklist Smp#: 22

Client ID: RW-8284P-20230720

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

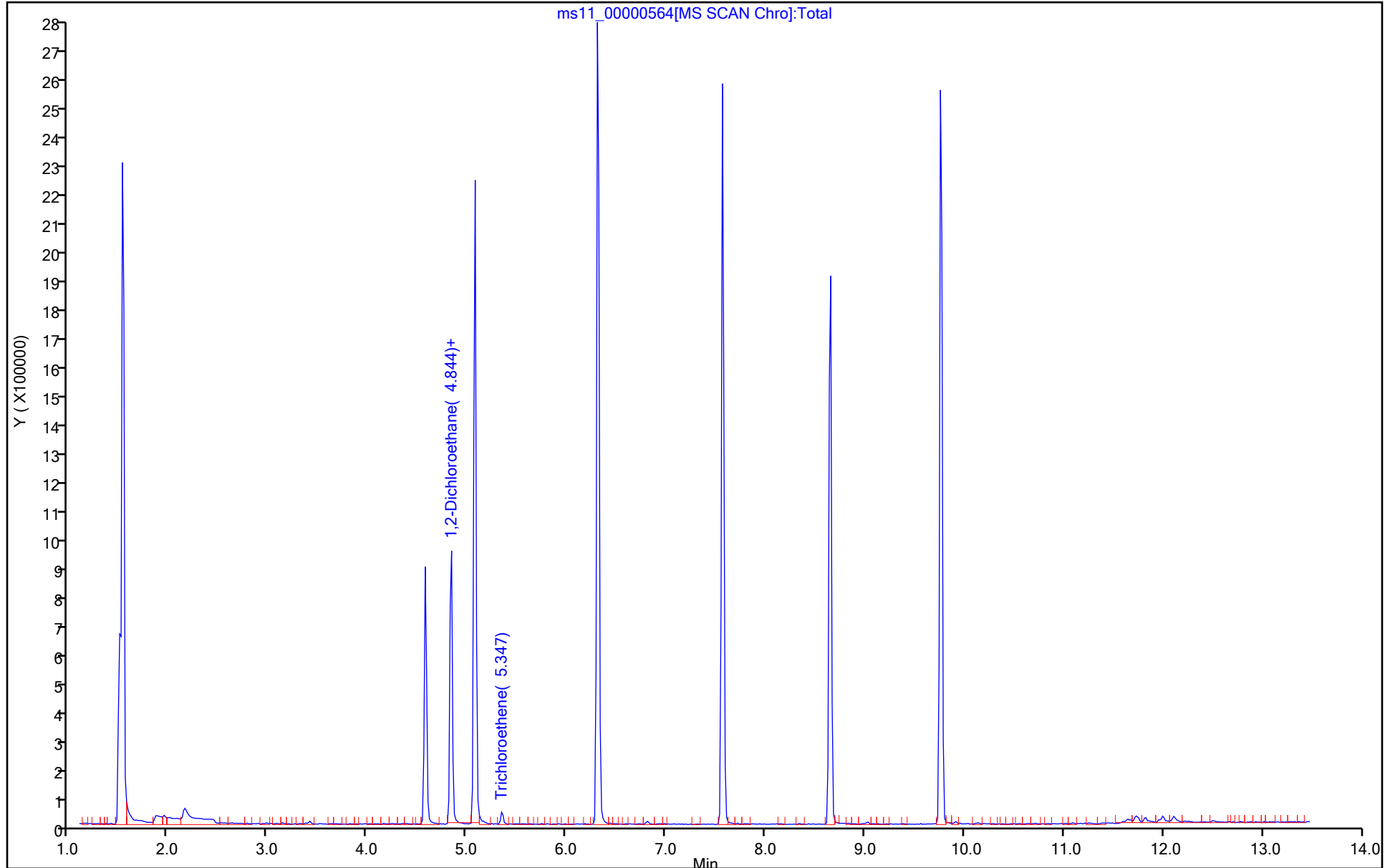
ALS Bottle#: 16

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000564.D
Lims ID: 280-179478-B-1
Client ID: RW-8284P-20230720
Sample Type: Client
Inject. Date: 03-Aug-2023 13:53:30 ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-B-1
Misc. Info.: 280-0124144-022
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1613

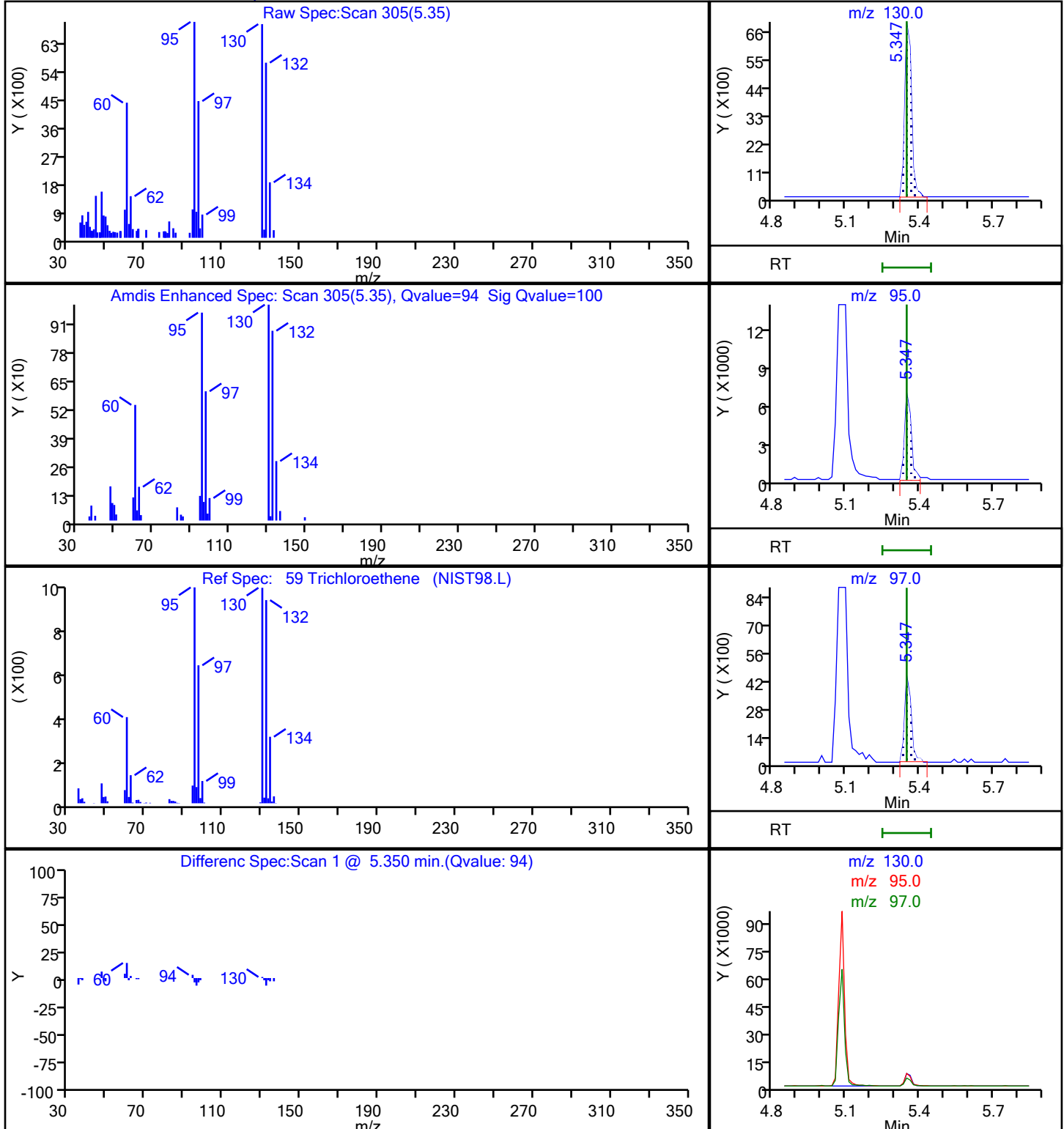
First Level Reviewer: AK2J

Date: 04-Aug-2023 00:05:45

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.0	97.91
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.6	107.26
\$ 6 Toluene-d8 (Surr)	50.0	52.6	105.14
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.9	105.85

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000564.D
Injection Date: 03-Aug-2023 13:53:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-1 Lab Sample ID: 280-179478-1
Client ID: RW-8284P-20230720
Operator ID: MED ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector MS SCAN

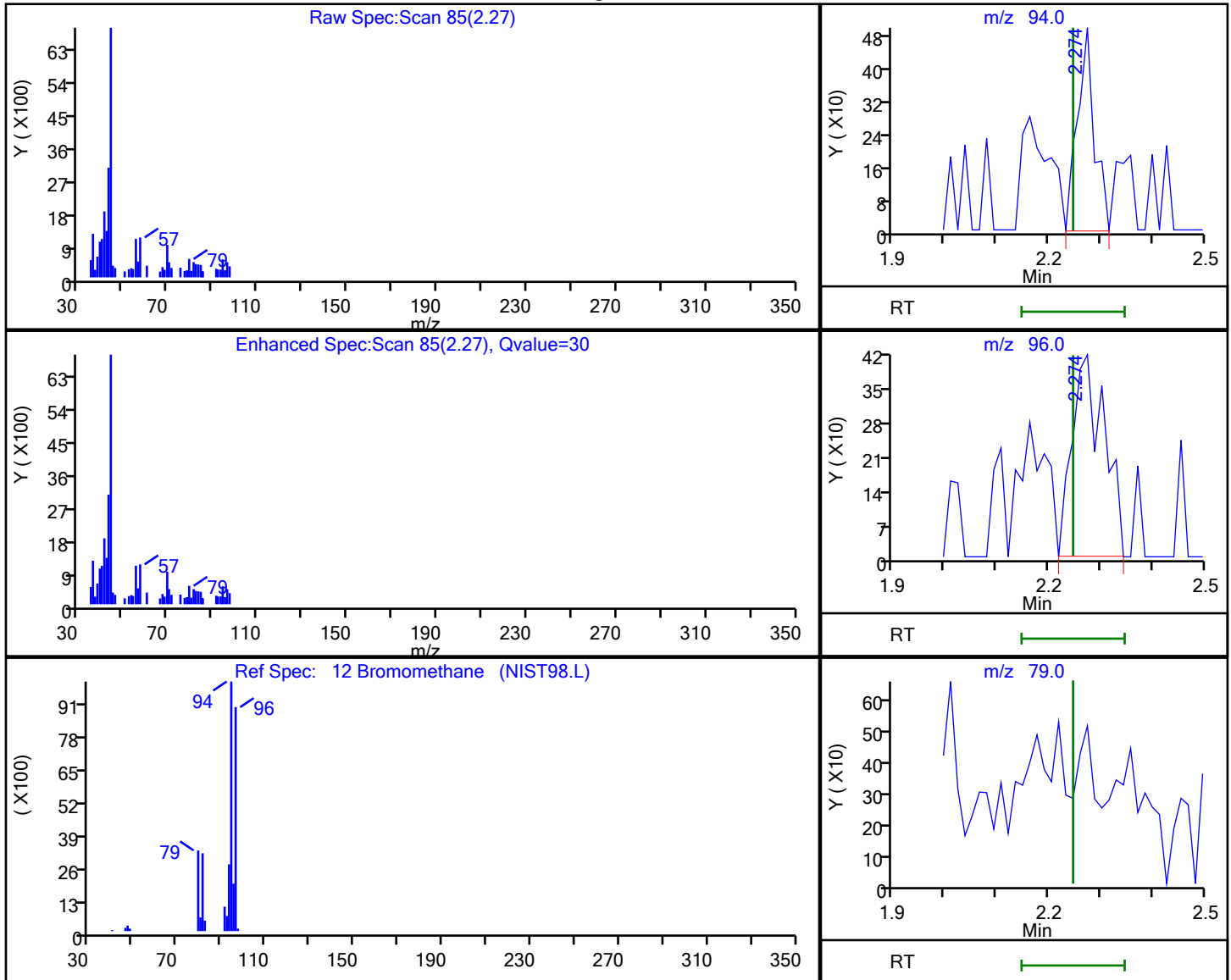
59 Trichloroethene, CAS: 79-01-6

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000564.D
Injection Date: 03-Aug-2023 13:53:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-1 Lab Sample ID: 280-179478-1
Client ID: RW-8284P-20230720
Operator ID: MED ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

12 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.27	94.00	1132	0.222307
2.27	96.00	1804	
2.25	79.00	0	

Reviewer: AK2J, 04-Aug-2023 00:05:28 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

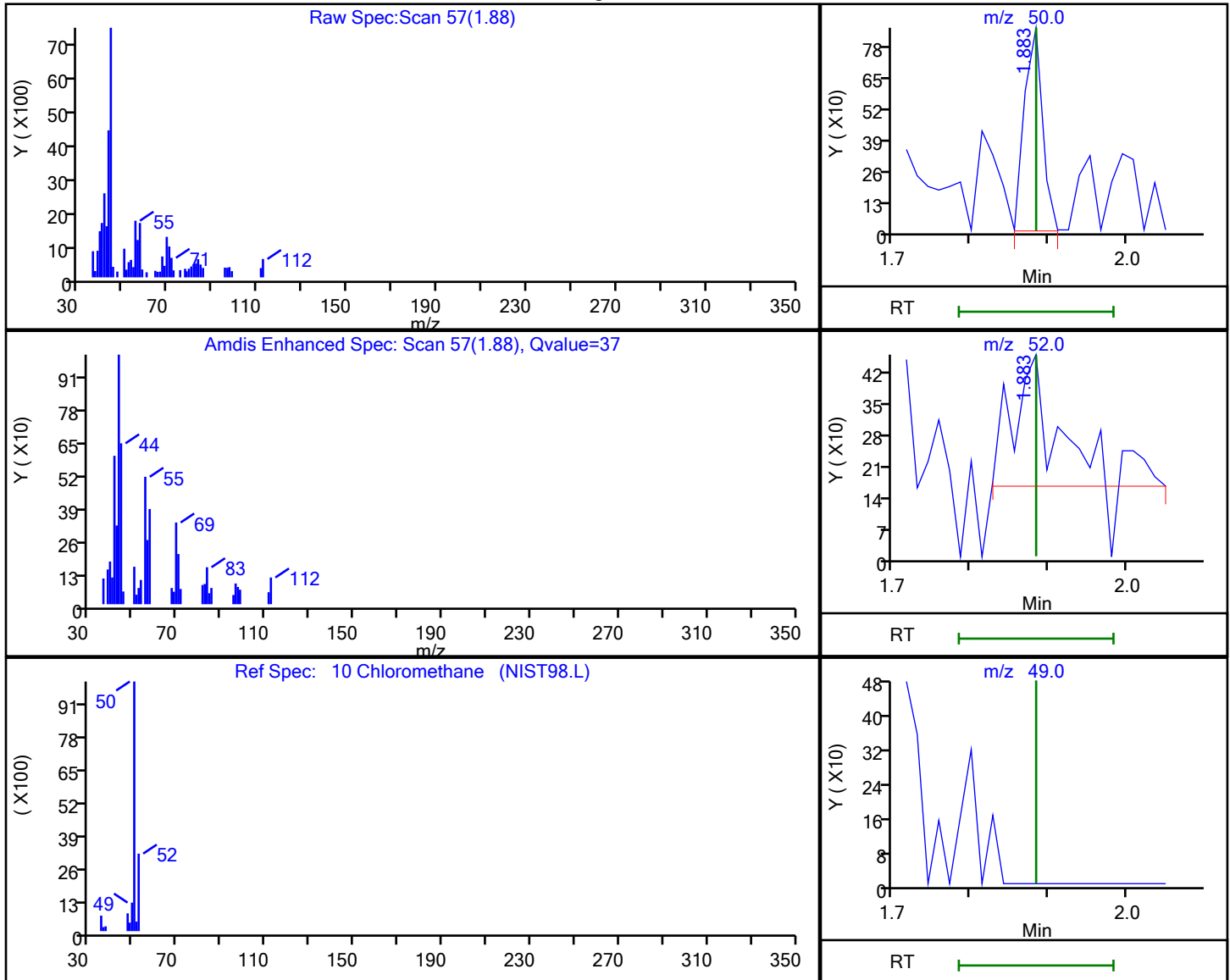
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000564.D
Injection Date: 03-Aug-2023 13:53:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-1 Lab Sample ID: 280-179478-1
Client ID: RW-8284P-20230720
Operator ID: MED ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.88	50.00	1380	0.117251
1.88	52.00	1220	
1.88	49.00	0	

Reviewer: AK2J, 04-Aug-2023 00:05:26 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

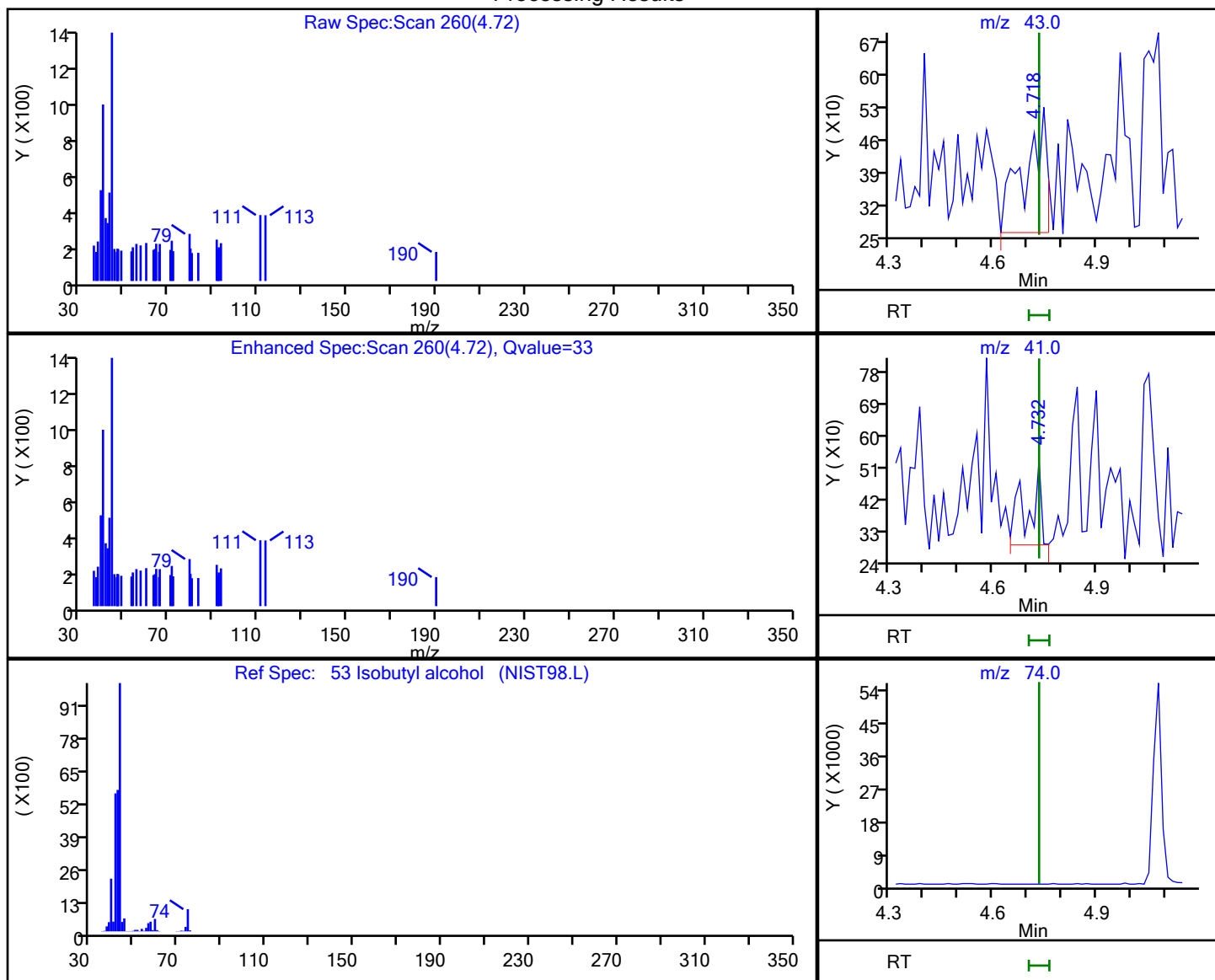
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000564.D
Injection Date: 03-Aug-2023 13:53:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-1 Lab Sample ID: 280-179478-1
Client ID: RW-8284P-20230720
Operator ID: MED ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.72	43.00	1202	2.498920
4.73	41.00	623	
4.73	74.00	0	

Reviewer: AK2J, 04-Aug-2023 00:05:34 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

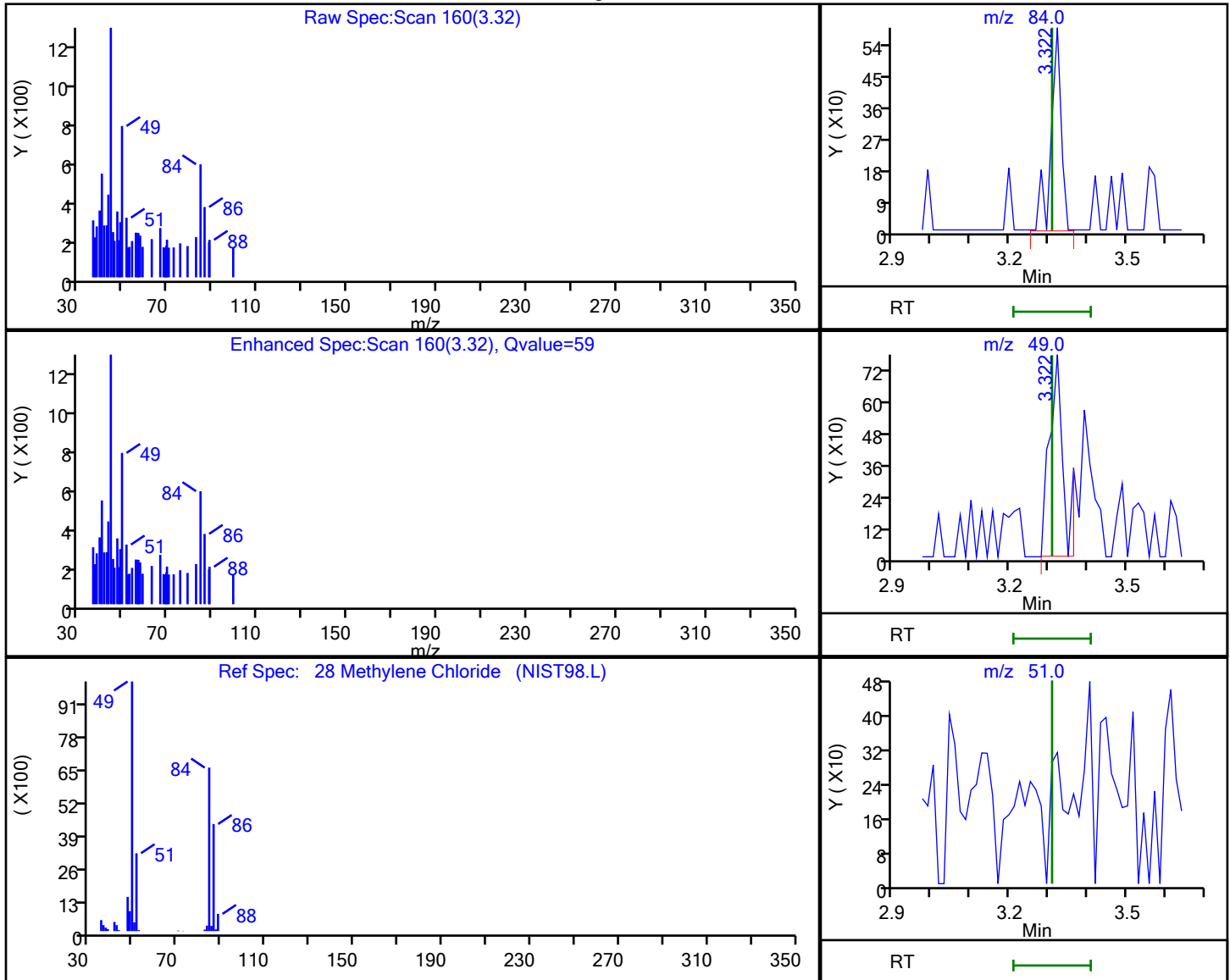
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000564.D
Injection Date: 03-Aug-2023 13:53:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-1 Lab Sample ID: 280-179478-1
Client ID: RW-8284P-20230720
Operator ID: MED ALS Bottle#: 16 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

28 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.32	84.00	1065	0.118388
3.32	49.00	1989	
3.31	51.00	0	

Reviewer: AK2J, 04-Aug-2023 00:05:30 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2076F-20230721</u>	Lab Sample ID: <u>280-179478-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000565.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 11:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 14:15</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2076F-20230721</u>	Lab Sample ID: <u>280-179478-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000565.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 11:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 14:15</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	0.92	J	1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: RW-2076F-20230721 Lab Sample ID: 280-179478-2
Matrix: Water Lab File ID: ms11_00000565.D
Analysis Method: 8260D Date Collected: 07/21/2023 11:35
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 14:15
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
2037-26-5	Toluene-d8 (Surr)	103		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000565.D
 Lims ID: 280-179478-A-2
 Client ID: RW-2076F-20230721
 Sample Type: Client
 Inject. Date: 03-Aug-2023 14:15:30 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-2 HS
 Misc. Info.: 280-0124144-023
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:06:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	97	1630228	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	421998	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	735481	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	451943	49.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	624987	53.3	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1757382	51.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	92	662561	52.4	
\$ 8 BFB	95	8.657	8.643	0.014	92	663247	NR	
9 Dichlorodifluoromethane	85		1.702				ND	
10 Chloromethane	50		1.883				ND	U
11 Vinyl chloride	62		1.981				ND	
12 Bromomethane	94		2.246				ND	
13 Chloroethane	64		2.344				ND	
14 Dichlorofluoromethane	67		2.526				ND	
15 Trichlorofluoromethane	101		2.554				ND	
16 Ethanol	45		2.679				ND	
17 Ethyl ether	59		2.763				ND	U
18 Acrolein	56		2.875				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.959				ND	
19 1,1-Dichloroethene	96		2.959				ND	
21 Acetone	43		2.973				ND	7
22 Isopropyl alcohol	45	3.056	3.056	0.000	98	23297	30.6	
23 Iodomethane	142		3.084				ND	
24 Carbon disulfide	76		3.140				ND	7
25 Acetonitrile	41		3.182				ND	
26 Methyl acetate	43		3.196				ND	
27 3-Chloro-1-propene	41		3.224				ND	
28 Methylene Chloride	84		3.308				ND	
29 2-Methyl-2-propanol	59		3.364				ND	U
30 Acrylonitrile	53		3.476				ND	
31 Methyl tert-butyl ether	73		3.489				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.517				ND	
33 Hexane	57		3.699				ND	
34 Vinyl acetate	43		3.797				ND	
36 Isopropyl ether	87		3.825				ND	
35 1,1-Dichloroethane	63		3.825				ND	
37 2-Chloro-1,3-butadiene	53		3.867				ND	
38 Tert-butyl ethyl ether	59		4.076				ND	
39 2-Butanone (MEK)	43		4.202				ND	
40 Ethyl acetate	43		4.216				ND	
41 cis-1,2-Dichloroethene	96		4.230				ND	
43 Propionitrile	54		4.244				ND	
42 2,2-Dichloropropane	77		4.244				ND	
44 sec-Butyl Alcohol	45		4.313				ND	
45 Methacrylonitrile	41		4.355				ND	
46 Chlorobromomethane	128		4.411				ND	
47 Tetrahydrofuran	42		4.411				ND	
48 Chloroform	83		4.467				ND	
49 1,1,1-Trichloroethane	97		4.607				ND	
50 Cyclohexane	56		4.663				ND	
51 1,1-Dichloropropene	75		4.719				ND	
52 Carbon tetrachloride	117		4.719				ND	
53 Isobutyl alcohol	43		4.732				ND	
54 Benzene	78		4.872				ND	
55 1,2-Dichloroethane	62		4.886				ND	
56 Tert-amyl methyl ether	73		4.928				ND	
57 n-Heptane	43		5.040				ND	
58 n-Butanol	56		5.207				ND	
59 Trichloroethene	130	5.347	5.347	0.000	94	8401	0.9235	
60 2-Pentanone	43		5.445				ND	
63 Methyl methacrylate	100		5.542				ND	
61 Methylcyclohexane	55		5.543				ND	
62 1,2-Dichloropropane	63		5.543				ND	
64 1,4-Dioxane	88		5.598				ND	
65 Dibromomethane	93		5.626				ND	
66 Dichlorobromomethane	83		5.738				ND	
67 2-Nitropropane	41		5.892				ND	
68 2-Chloroethyl vinyl ether	63		5.934				ND	
69 cis-1,3-Dichloropropene	75		6.087				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185				ND	U
71 Toluene	91		6.367				ND	
72 trans-1,3-Dichloropropene	75		6.534				ND	
73 Ethyl methacrylate	69		6.562				ND	
74 1,1,2-Trichloroethane	97		6.716				ND	
75 Tetrachloroethene	164		6.813				ND	
76 1,3-Dichloropropane	76		6.855				ND	
77 2-Hexanone	43		6.869				ND	
78 Chlorodibromomethane	129		7.051				ND	
79 Ethylene Dibromide	107		7.163				ND	
80 1-Chlorohexane	91		7.554				ND	7
81 Chlorobenzene	112		7.596				ND	
82 1,1,1,2-Tetrachloroethane	131		7.665				ND	
83 Ethylbenzene	106		7.665				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 m-Xylene & p-Xylene	91		7.791				ND	
85 o-Xylene	106		8.140				ND	
86 Styrene	104		8.154				ND	
87 Bromoform	173		8.336				ND	
88 Isopropylbenzene	105		8.475				ND	
89 cis-1,4-Dichloro-2-butene	53	8.545	8.517	0.028	0	644	0.1777	
90 Cyclohexanone	55		8.573				ND	
91 1,1,2,2-Tetrachloroethane	83		8.755				ND	
93 trans-1,4-Dichloro-2-butene	53		8.797				ND	
92 Bromobenzene	156		8.797				ND	
94 1,2,3-Trichloropropane	110		8.825				ND	
95 N-Propylbenzene	120		8.866				ND	
96 2-Chlorotoluene	126		8.964				ND	
97 1,3,5-Trimethylbenzene	105		9.034				ND	
98 4-Chlorotoluene	126		9.090				ND	
99 tert-Butylbenzene	119		9.341				ND	
100 1,2,4-Trimethylbenzene	105		9.397				ND	
101 sec-Butylbenzene	134		9.565				ND	
102 1,3-Dichlorobenzene	146		9.690				ND	
103 4-Isopropyltoluene	119		9.704				ND	
104 1,4-Dichlorobenzene	146		9.788				ND	
105 1,2,3-Trimethylbenzene	105		9.802				ND	
106 n-Butylbenzene	91		10.109				ND	
107 1,2-Dichlorobenzene	146		10.137				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906				ND	
109 1,3,5-Trichlorobenzene	180		11.101				ND	
110 1,2,4-Trichlorobenzene	180		11.730				ND	
111 Hexachlorobutadiene	225		11.869				ND	
112 Naphthalene	128		11.995				ND	
113 1,2,3-Trichlorobenzene	180		12.204				ND	
114 Methyl cyclohexane TIC	1		0.000				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 1-Chlorohexane TIC	1		0.000				ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
118 Pentachloroethane	167		0.000				ND	
119 t-Amyl alcohol	1		0.000				ND	
120 Ethyl acrylate	55		0.000				ND	
121 Tetrahydrothiophene TIC	1		0.000				ND	
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1		0.000				ND	7
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Trihalomethanes, Total	1		0.000				ND	7
S 126 TAH	1				0		0	7
S 127 Total BTEX	1		0.000				ND	7
T 129 Propene TIC	1		1.369				ND	
T 128 Propene oxide TIC	1		1.369				ND	
T 130 1,3-Butadiene TIC	1		1.985				ND	
T 131 2,3-Dichloro-1-propene TIC	1		6.150				ND	
T 132 4-Ethyltoluene TIC	1		9.345				ND	
T 133 Dicyclopentadiene TIC	1		9.670				ND	
T 134 Dichloroacetonitrile TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:12:00

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000565.D

Injection Date: 03-Aug-2023 14:15:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: 280-179478-A-2

Lab Sample ID: 280-179478-2

Worklist Smp#: 23

Client ID: RW-2076F-20230721

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

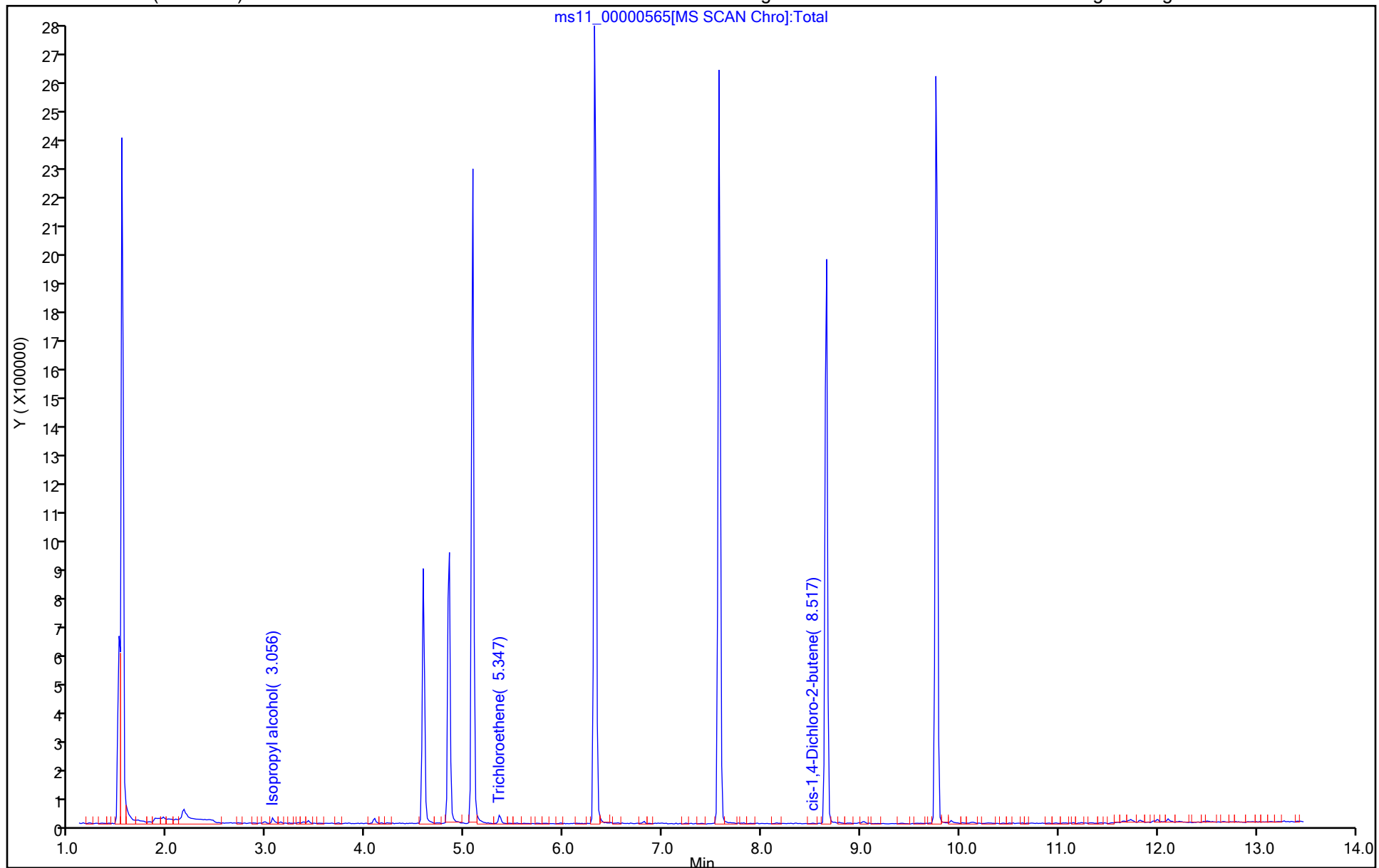
ALS Bottle#: 17

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000565.D
 Lims ID: 280-179478-A-2
 Client ID: RW-2076F-20230721
 Sample Type: Client
 Inject. Date: 03-Aug-2023 14:15:30 ALS Bottle#: 17 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-2 HS
 Misc. Info.: 280-0124144-023
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:06:10

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.6	99.28
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.3	106.51
\$ 6 Toluene-d8 (Surr)	50.0	51.6	103.27
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.4	104.74

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000565.D

Injection Date: 03-Aug-2023 14:15:30

Instrument ID: VMS_MS11

Lims ID: 280-179478-A-2

Lab Sample ID: 280-179478-2

Client ID: RW-2076F-20230721

Operator ID: MED

ALS Bottle#: 17

Worklist Smp#: 23

Purge Vol: 5.000 mL

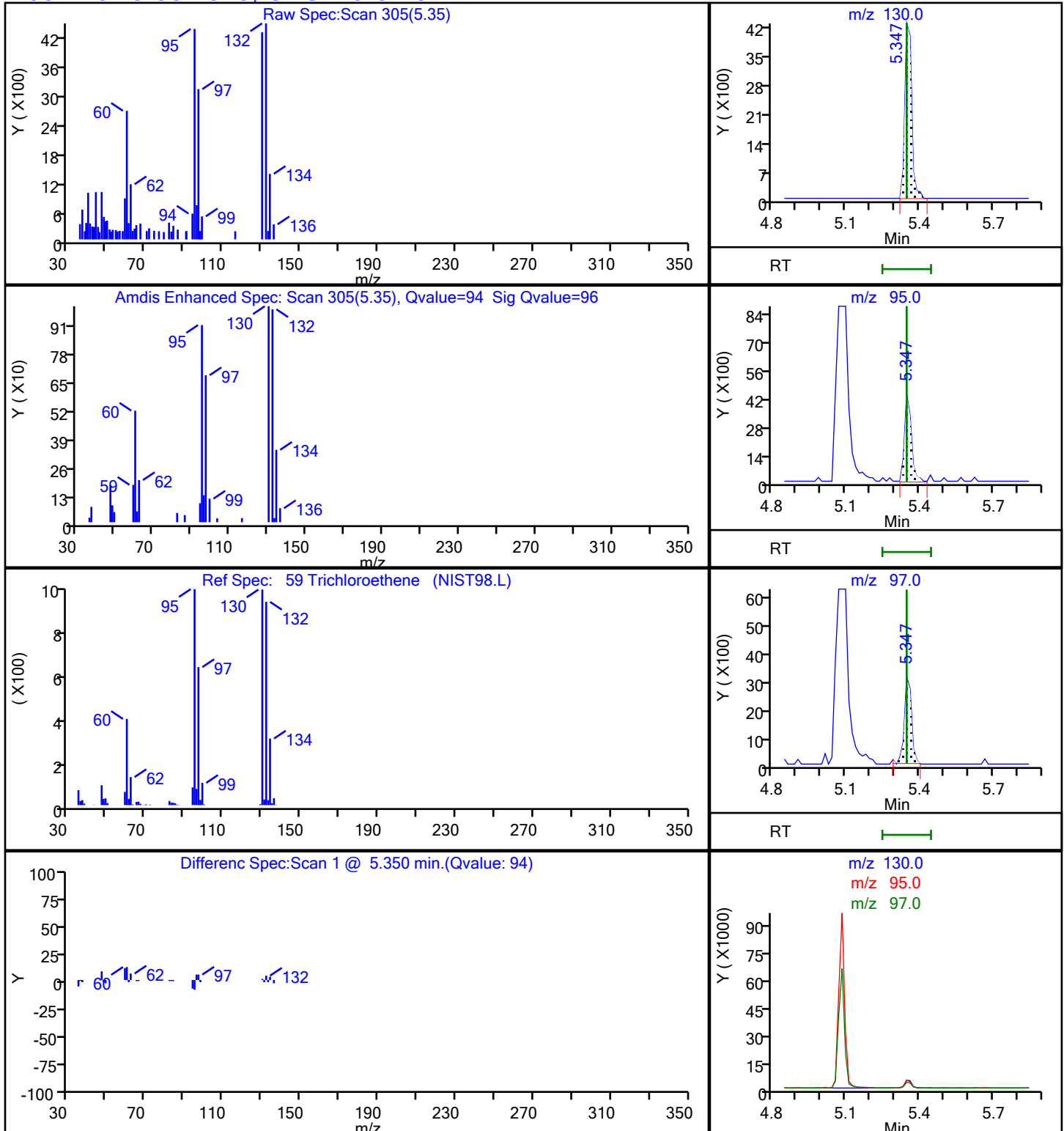
Dil. Factor: 1.0000

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Detector: MS SCAN

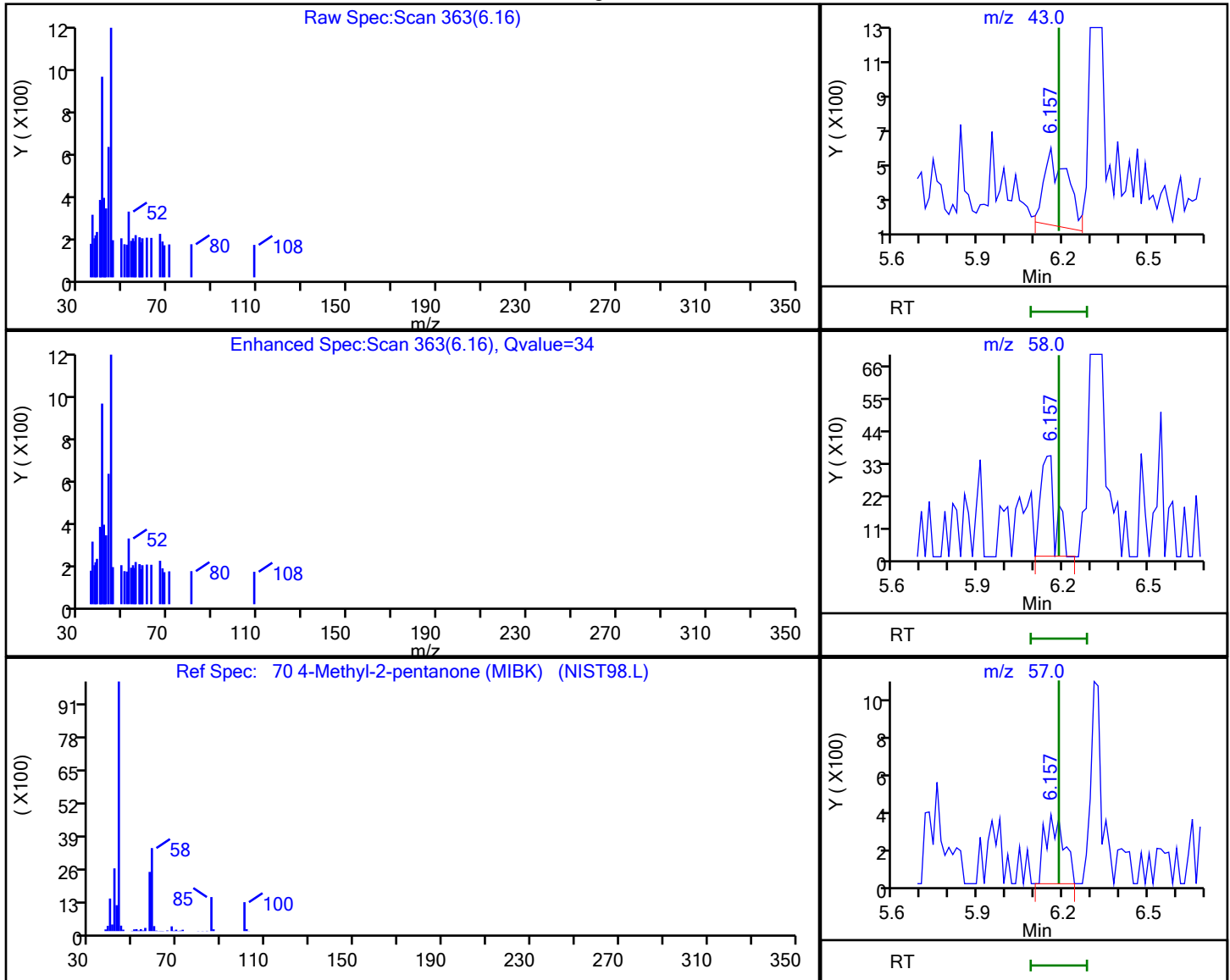
59 Trichloroethene, CAS: 79-01-6

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000565.D
Injection Date: 03-Aug-2023 14:15:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-2 Lab Sample ID: 280-179478-2
Client ID: RW-2076F-20230721
Operator ID: MED ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

70 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.16	43.00	2239	0.245203
6.16	58.00	1275	
6.16	57.00	1712	

Reviewer: AK2J, 04-Aug-2023 00:06:01 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

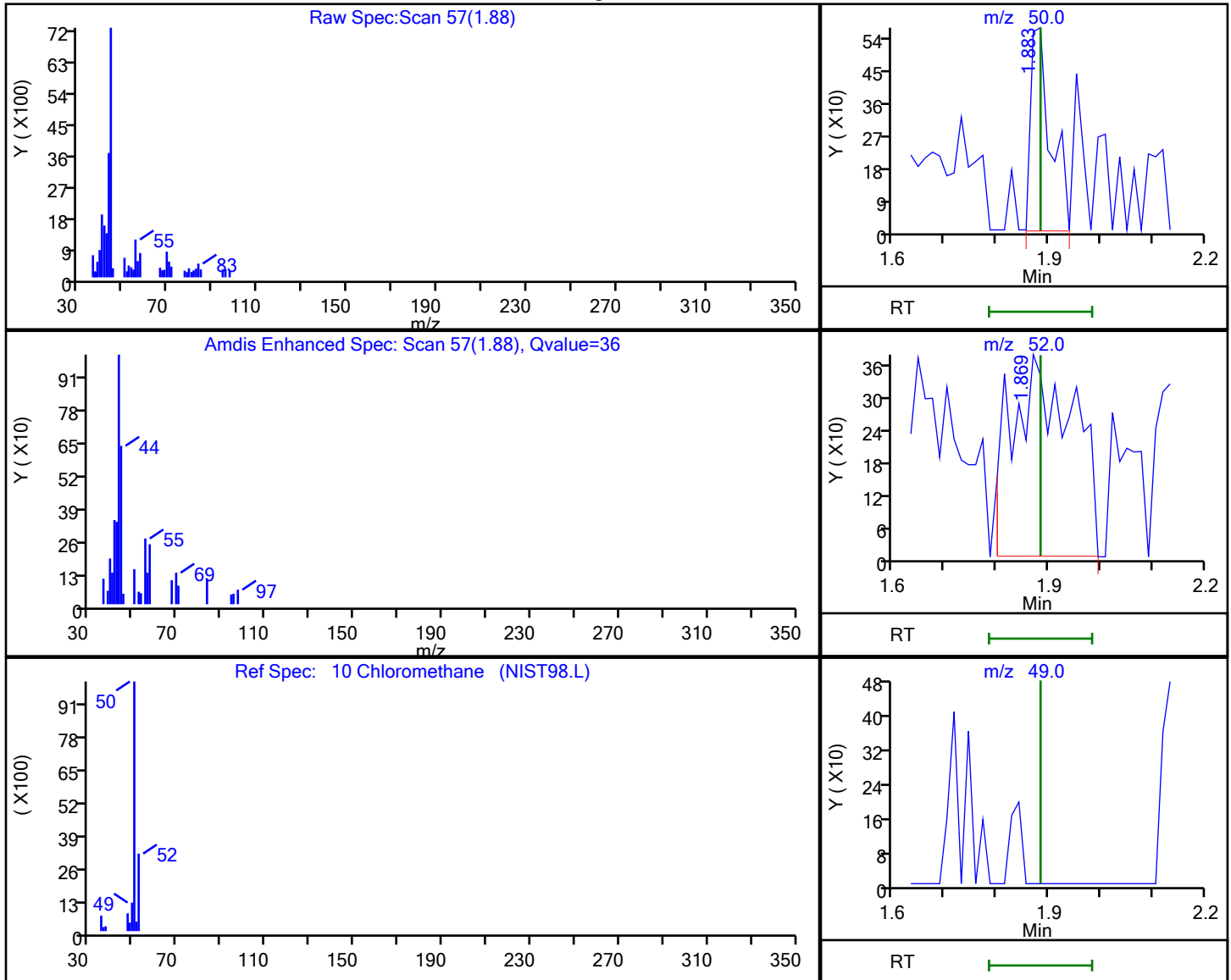
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000565.D
Injection Date: 03-Aug-2023 14:15:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-2 Lab Sample ID: 280-179478-2
Client ID: RW-2076F-20230721
Operator ID: MED ALS Bottle#: 17 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.88	50.00	1514	0.127964
1.87	52.00	3143	
1.88	49.00	0	

Reviewer: AK2J, 04-Aug-2023 00:05:50 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2172H-20230721</u>	Lab Sample ID: <u>280-179478-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000566.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 13:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 14:36</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	1.2		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2172H-20230721</u>	Lab Sample ID: <u>280-179478-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000566.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 13:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 14:36</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	3.2		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	17		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: RW-2172H-20230721 Lab Sample ID: 280-179478-3
Matrix: Water Lab File ID: ms11_00000566.D
Analysis Method: 8260D Date Collected: 07/21/2023 13:40
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 14:36
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	106		78-120
2037-26-5	Toluene-d8 (Surr)	106		80-125
1868-53-7	Dibromofluoromethane (Surr)	98		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000566.D
 Lims ID: 280-179478-A-3
 Client ID: RW-2172H-20230721
 Sample Type: Client
 Inject. Date: 03-Aug-2023 14:36:30 ALS Bottle#: 18 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-3
 Misc. Info.: 280-0124144-024
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:06:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1647721	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	420539	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.774	9.760	0.014	97	738931	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	450687	49.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	637234	53.7	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1799643	53.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	91	673221	53.0	
\$ 8 BFB	95	8.657	8.643	0.014	91	674046	NR	
9 Dichlorodifluoromethane	85		1.702				ND	
10 Chloromethane	50		1.883				ND	U
11 Vinyl chloride	62		1.981				ND	7
12 Bromomethane	94		2.246				ND	
13 Chloroethane	64		2.344				ND	
14 Dichlorofluoromethane	67		2.526				ND	7
15 Trichlorofluoromethane	101		2.554				ND	
16 Ethanol	45		2.679				ND	
17 Ethyl ether	59	2.763	2.763	0.000	94	4907	0.6484	
18 Acrolein	56		2.875				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.959				ND	
19 1,1-Dichloroethene	96		2.959				ND	
21 Acetone	43		2.973				ND	7
22 Isopropyl alcohol	45		3.056				ND	7
23 Iodomethane	142		3.084				ND	
24 Carbon disulfide	76		3.140				ND	7
25 Acetonitrile	41		3.182				ND	U
26 Methyl acetate	43		3.196				ND	
27 3-Chloro-1-propene	41		3.224				ND	7
28 Methylene Chloride	84		3.308				ND	
29 2-Methyl-2-propanol	59		3.364				ND	U
30 Acrylonitrile	53		3.476				ND	
31 Methyl tert-butyl ether	73		3.489				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.517				ND	
33 Hexane	57		3.699				ND	U
34 Vinyl acetate	43		3.797				ND	7
36 Isopropyl ether	87		3.825				ND	
35 1,1-Dichloroethane	63		3.825				ND	
37 2-Chloro-1,3-butadiene	53		3.867				ND	
38 Tert-butyl ethyl ether	59		4.076				ND	
39 2-Butanone (MEK)	43		4.202				ND	
40 Ethyl acetate	43		4.216				ND	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	85	11217	1.17	
43 Propionitrile	54		4.244				ND	
42 2,2-Dichloropropane	77		4.244				ND	
44 sec-Butyl Alcohol	45		4.313				ND	
45 Methacrylonitrile	41		4.355				ND	
46 Chlorobromomethane	128		4.411				ND	
47 Tetrahydrofuran	42		4.411				ND	
48 Chloroform	83	4.467	4.467	0.000	92	3502	0.2296	
49 1,1,1-Trichloroethane	97		4.607				ND	
50 Cyclohexane	56		4.663				ND	
51 1,1-Dichloropropene	75		4.719				ND	
52 Carbon tetrachloride	117		4.719				ND	
53 Isobutyl alcohol	43		4.732				ND	
54 Benzene	78		4.872				ND	
55 1,2-Dichloroethane	62		4.886				ND	
56 Tert-amyl methyl ether	73		4.928				ND	
57 n-Heptane	43		5.040				ND	
58 n-Butanol	56		5.207				ND	
59 Trichloroethene	130	5.347	5.347	0.000	97	160262	17.4	
60 2-Pentanone	43		5.445				ND	
63 Methyl methacrylate	100		5.542				ND	
61 Methylcyclohexane	55		5.543				ND	
62 1,2-Dichloropropane	63		5.543				ND	
64 1,4-Dioxane	88		5.598				ND	
65 Dibromomethane	93		5.626				ND	
66 Dichlorobromomethane	83		5.738				ND	
67 2-Nitropropane	41		5.892				ND	
68 2-Chloroethyl vinyl ether	63		5.934				ND	
69 cis-1,3-Dichloropropene	75		6.087				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185				ND	
71 Toluene	91		6.367				ND	
72 trans-1,3-Dichloropropene	75		6.534				ND	
73 Ethyl methacrylate	69		6.562				ND	
74 1,1,2-Trichloroethane	97		6.716				ND	
75 Tetrachloroethene	164	6.813	6.813	0.000	95	22080	3.20	
76 1,3-Dichloropropane	76		6.855				ND	
77 2-Hexanone	43		6.869				ND	
78 Chlorodibromomethane	129		7.051				ND	
79 Ethylene Dibromide	107		7.163				ND	
80 1-Chlorohexane	91		7.554				ND	7
81 Chlorobenzene	112		7.596				ND	
82 1,1,1,2-Tetrachloroethane	131		7.665				ND	
83 Ethylbenzene	106		7.665				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 m-Xylene & p-Xylene	91		7.791				ND	
85 o-Xylene	106		8.140				ND	
86 Styrene	104		8.154				ND	
87 Bromoform	173		8.336				ND	
88 Isopropylbenzene	105		8.475				ND	
89 cis-1,4-Dichloro-2-butene	53		8.517				ND	7
90 Cyclohexanone	55		8.573				ND	U
91 1,1,2,2-Tetrachloroethane	83		8.755				ND	
93 trans-1,4-Dichloro-2-butene	53		8.797				ND	
92 Bromobenzene	156		8.797				ND	
94 1,2,3-Trichloropropane	110		8.825				ND	
95 N-Propylbenzene	120		8.866				ND	
96 2-Chlorotoluene	126		8.964				ND	
97 1,3,5-Trimethylbenzene	105		9.034				ND	
98 4-Chlorotoluene	126		9.090				ND	
99 tert-Butylbenzene	119		9.341				ND	
100 1,2,4-Trimethylbenzene	105		9.397				ND	
101 sec-Butylbenzene	134		9.565				ND	
102 1,3-Dichlorobenzene	146		9.690				ND	7
103 4-Isopropyltoluene	119		9.704				ND	
104 1,4-Dichlorobenzene	146		9.788				ND	7
105 1,2,3-Trimethylbenzene	105		9.802				ND	7
106 n-Butylbenzene	91		10.109				ND	
107 1,2-Dichlorobenzene	146		10.137				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906				ND	
109 1,3,5-Trichlorobenzene	180		11.101				ND	
110 1,2,4-Trichlorobenzene	180		11.730				ND	
111 Hexachlorobutadiene	225		11.869				ND	
112 Naphthalene	128		11.995				ND	
113 1,2,3-Trichlorobenzene	180		12.204				ND	
114 Methyl cyclohexane TIC	1		0.000				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 1-Chlorohexane TIC	1		0.000				ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
118 Pentachloroethane	167		0.000				ND	
119 t-Amyl alcohol	1		0.000				ND	
120 Ethyl acrylate	55		0.000				ND	
121 Tetrahydrothiophene TIC	1		0.000				ND	
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1				0		1.17	
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Trihalomethanes, Total	1				0		0.2296	
S 126 TAH	1				0		0	7
S 127 Total BTEX	1		0.000				ND	7
T 129 Propene TIC	1		1.369				ND	
T 128 Propene oxide TIC	1		1.369				ND	
T 130 1,3-Butadiene TIC	1		1.985				ND	
T 131 2,3-Dichloro-1-propene TIC	1		6.150				ND	
T 132 4-Ethyltoluene TIC	1		9.345				ND	
T 133 Dicyclopentadiene TIC	1		9.670				ND	
T 134 Dichloroacetonitrile TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:12:02

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000566.D

Injection Date: 03-Aug-2023 14:36:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: 280-179478-A-3

Lab Sample ID: 280-179478-3

Worklist Smp#: 24

Client ID: RW-2172H-20230721

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

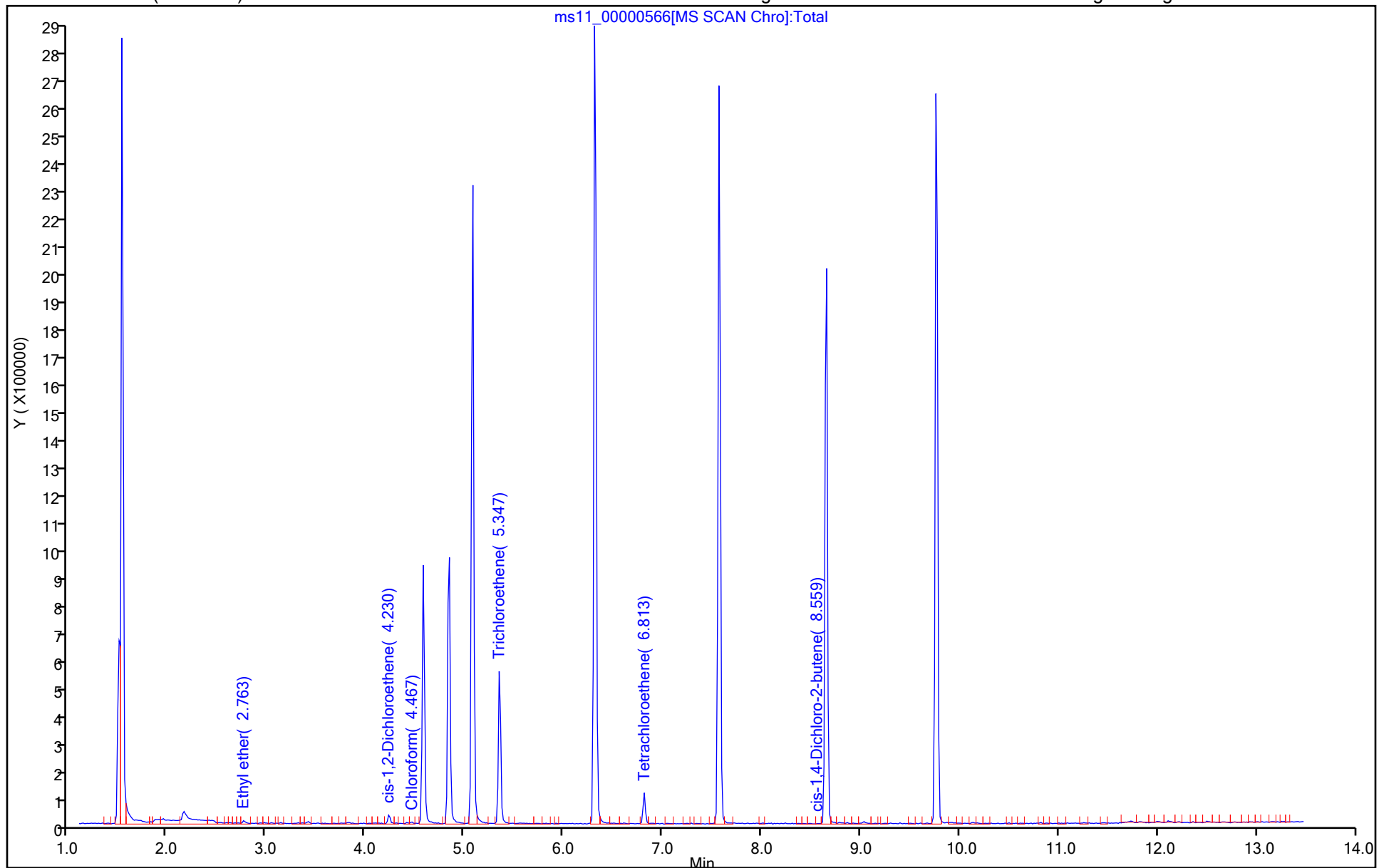
ALS Bottle#: 18

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000566.D
Lims ID: 280-179478-A-3
Client ID: RW-2172H-20230721
Sample Type: Client
Inject. Date: 03-Aug-2023 14:36:30 ALS Bottle#: 18 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-A-3
Misc. Info.: 280-0124144-024
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1613

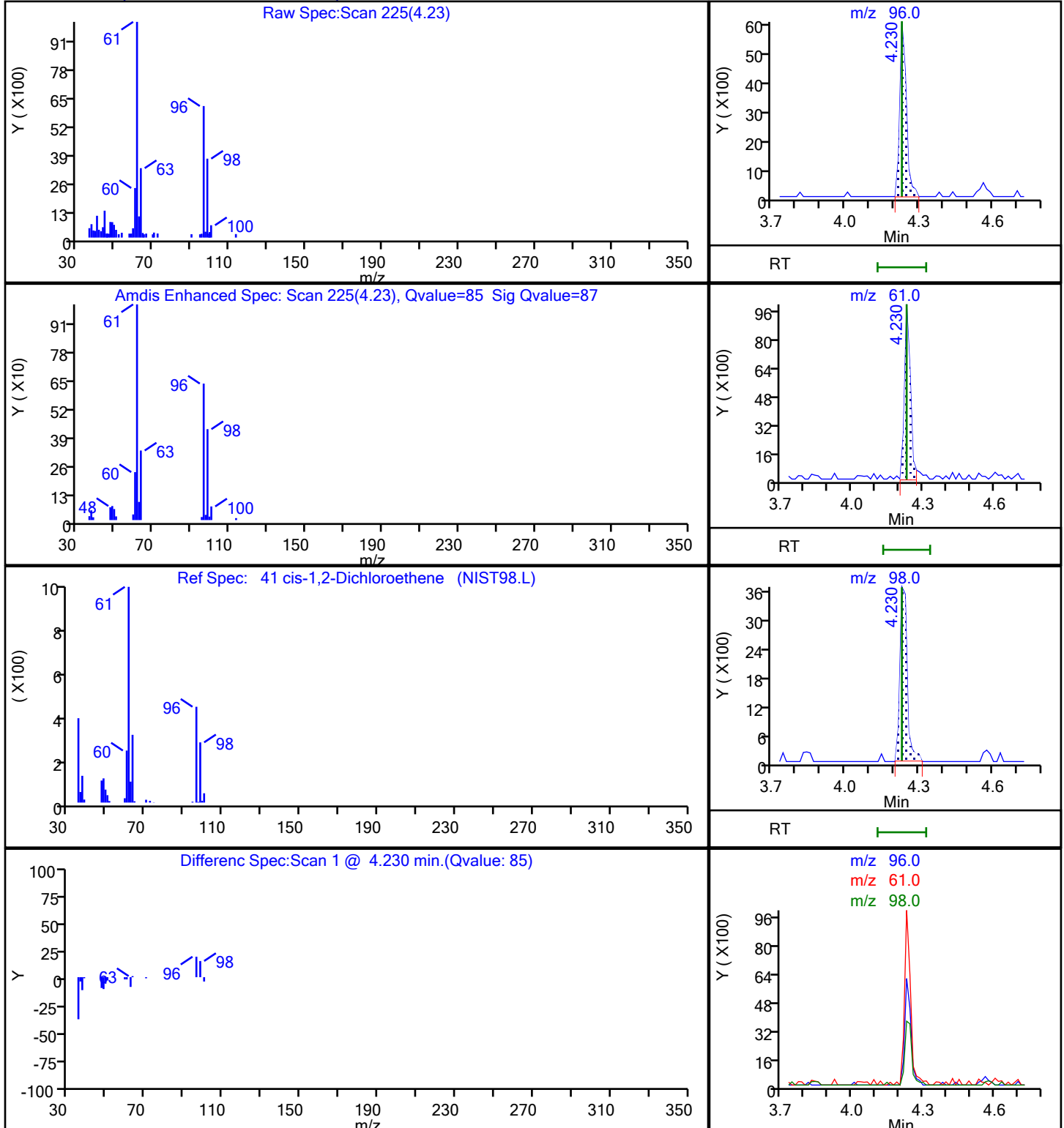
First Level Reviewer: AK2J

Date: 04-Aug-2023 00:06:37

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.0	97.95
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.7	107.44
\$ 6 Toluene-d8 (Surr)	50.0	53.1	106.12
\$ 7 4-Bromofluorobenzene (Surr)	50.0	53.0	105.93

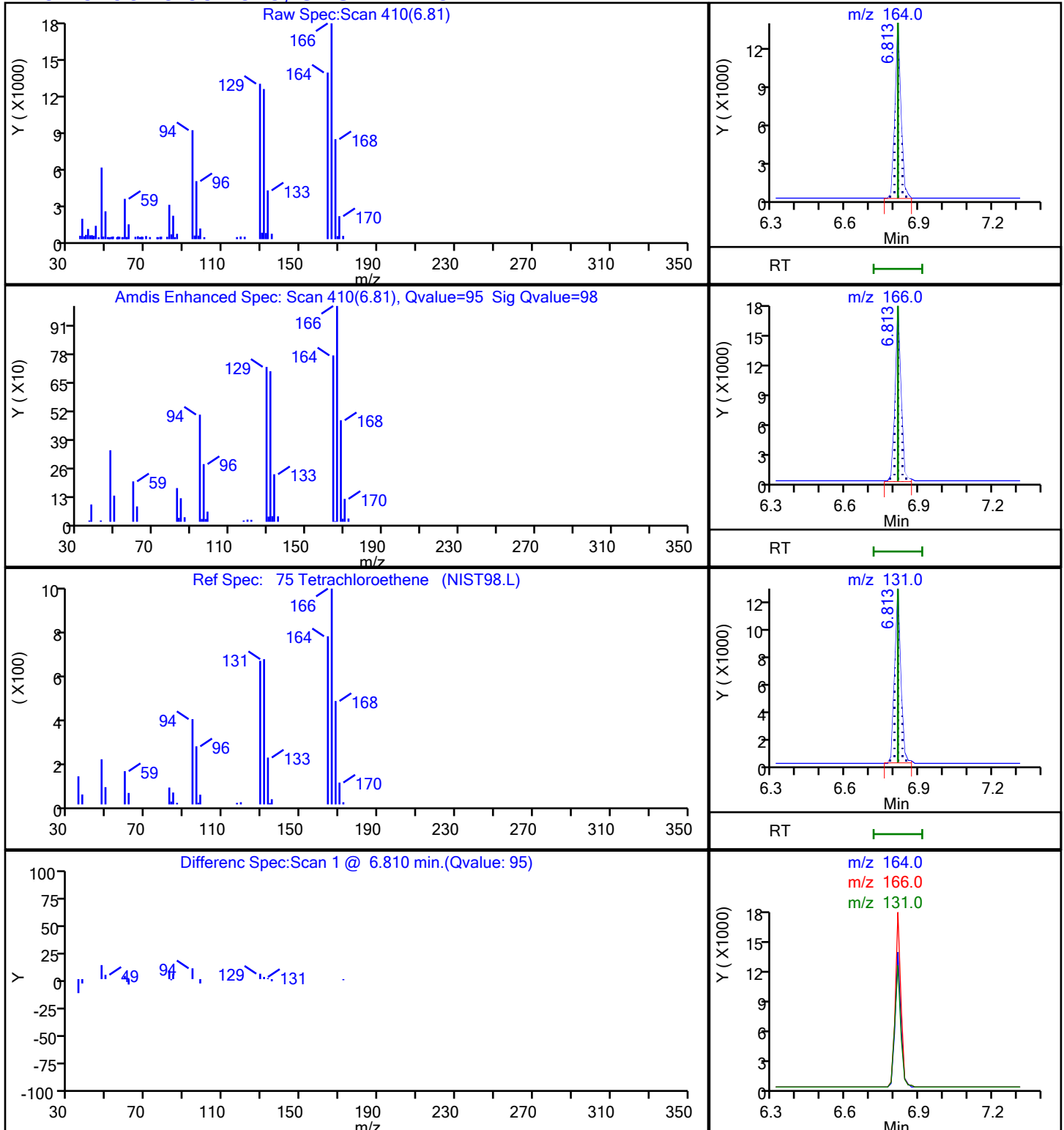
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000566.D
Injection Date: 03-Aug-2023 14:36:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-3 Lab Sample ID: 280-179478-3
Client ID: RW-2172H-20230721
Operator ID: MED ALS Bottle#: 18 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector MS SCAN

41 cis-1,2-Dichloroethene, CAS: 156-59-2

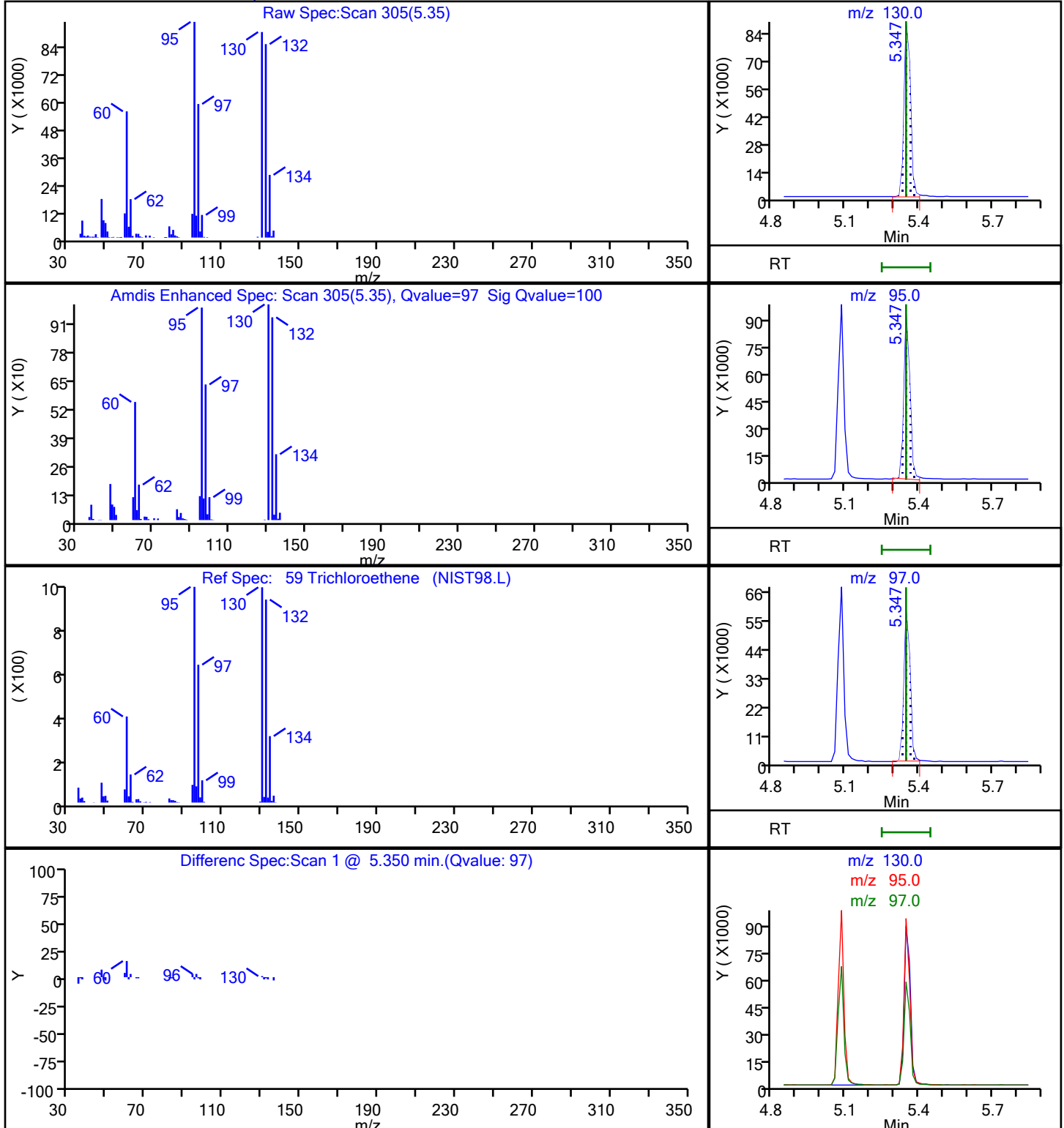
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000566.D
Injection Date: 03-Aug-2023 14:36:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-3 Lab Sample ID: 280-179478-3
Client ID: RW-2172H-20230721
Operator ID: MED ALS Bottle#: 18 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector MS SCAN

75 Tetrachloroethene, CAS: 127-18-4

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000566.D
Injection Date: 03-Aug-2023 14:36:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-3 Lab Sample ID: 280-179478-3
Client ID: RW-2172H-20230721
Operator ID: MED ALS Bottle#: 18 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector MS SCAN

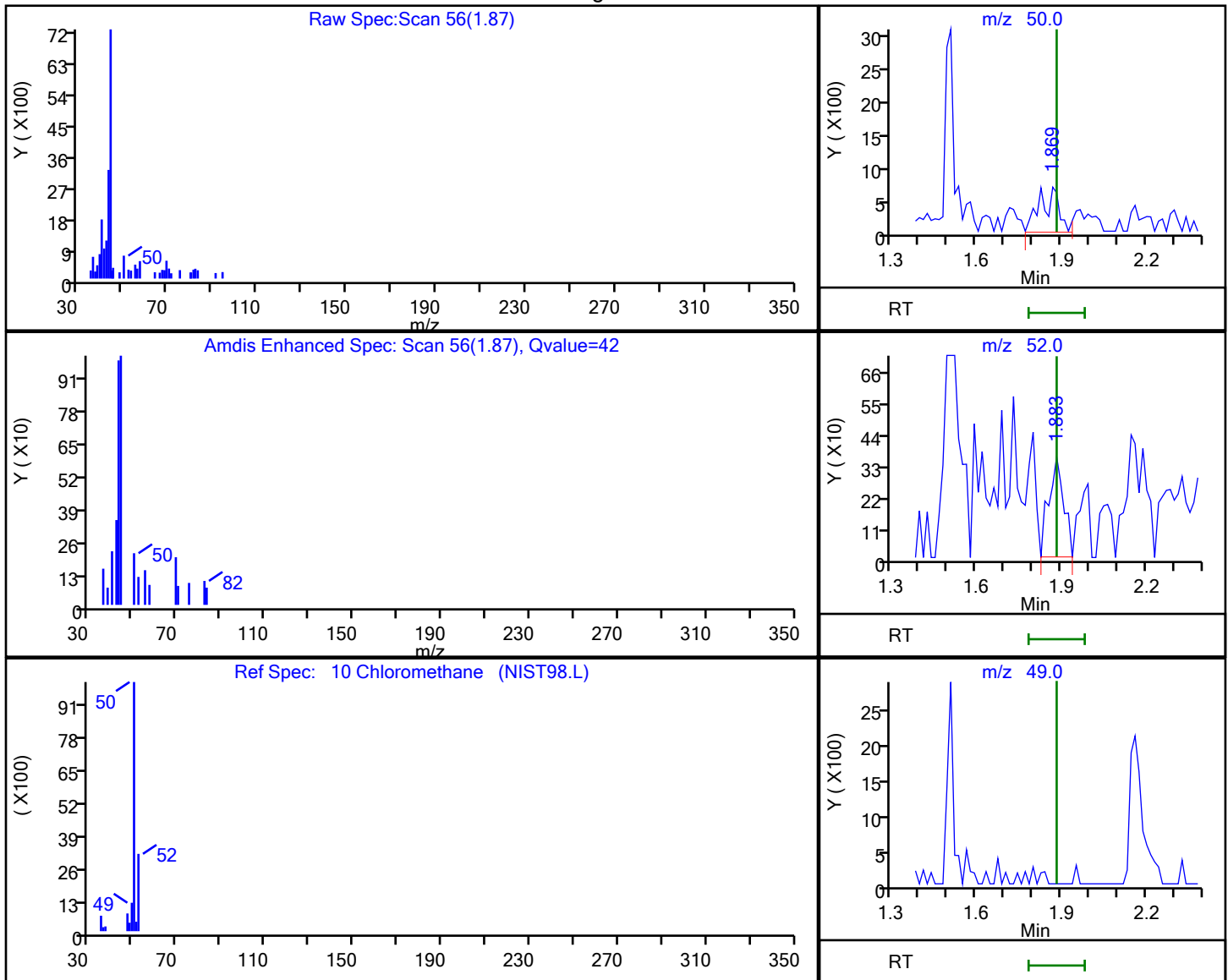
59 Trichloroethene, CAS: 79-01-6

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000566.D
Injection Date: 03-Aug-2023 14:36:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-3 Lab Sample ID: 280-179478-3
Client ID: RW-2172H-20230721
Operator ID: MED ALS Bottle#: 18 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.87	50.00	3065	0.256305
1.88	52.00	1327	
1.88	49.00	0	

Reviewer: AK2J, 04-Aug-2023 00:06:15 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

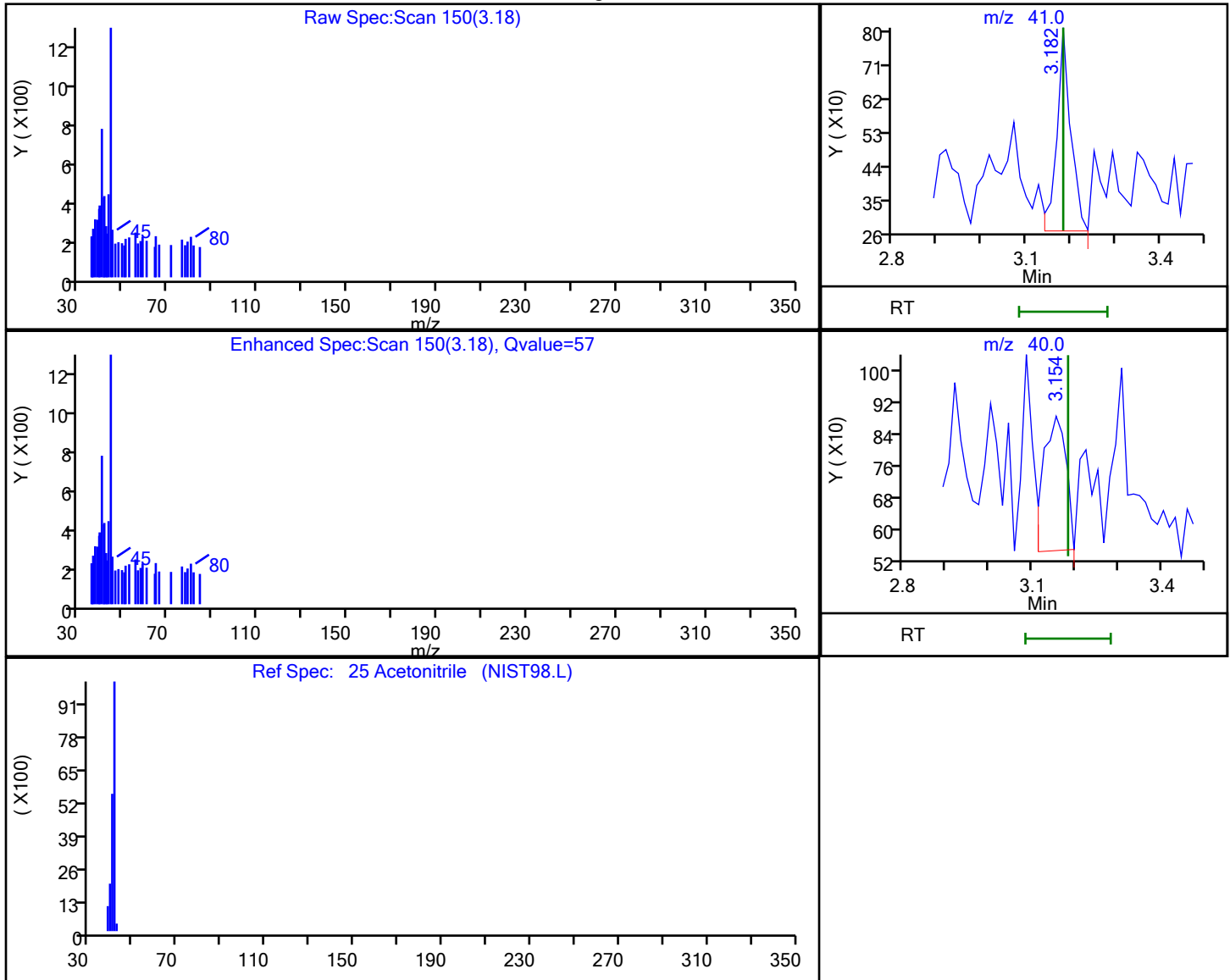
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000566.D
Injection Date: 03-Aug-2023 14:36:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-3 Lab Sample ID: 280-179478-3
Client ID: RW-2172H-20230721
Operator ID: MED ALS Bottle#: 18 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

25 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
3.18	41.00	1164	0.952324
3.15	40.00	1244	

Reviewer: AK2J, 04-Aug-2023 00:06:19 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8048P-20230721</u>	Lab Sample ID: <u>280-179478-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6796.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 12:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 19:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND	*1	2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8048P-20230721</u>	Lab Sample ID: <u>280-179478-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6796.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 12:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 19:53</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND	F2 *1	3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	3.9		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND	++	15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: RW-8048P-20230721 Lab Sample ID: 280-179478-4
Matrix: Water Lab File ID: R_6796.D
Analysis Method: 8260D Date Collected: 07/21/2023 12:20
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 19:53
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621775 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-127
460-00-4	4-Bromofluorobenzene (Surr)	106		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6796.D
 Lims ID: 280-179478-C-4
 Client ID: RW-8048P-20230721
 Sample Type: Client
 Inject. Date: 03-Aug-2023 19:53:30 ALS Bottle#: 8 Worklist Smp#: 35
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-C-4
 Misc. Info.: 280-0124173-035
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:13:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.815	-0.003	98	1863819	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	89	447796	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	648637	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	486054	49.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	565089	48.3	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1972997	51.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	663256	52.8	
\$ 8 BFB	95	8.414	8.414	0.000	82	663256	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.801				ND	
13 Bromomethane	94		2.068				ND	
12 Ethylene oxide	43		2.075				ND	U
14 Chloroethane	64		2.150				ND	
15 Dichlorofluoromethane	67		2.311				ND	
16 Trichlorofluoromethane	101		2.341				ND	
17 Ethanol	45		2.457				ND	
18 Ethyl ether	59		2.547				ND	
19 Propene oxide	58		2.630				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	151		2.724				ND	
22 1,1-Dichloroethene	96		2.724				ND	
23 Acetone	43		2.746				ND	7
24 Isopropyl alcohol	45	2.836	2.832	0.004	66	6086	12.8	
25 Iodomethane	142		2.840				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.945				ND	
28 Methyl acetate	43		2.967				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.072				ND	
31 2-Methyl-2-propanol	59		3.125				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.455				ND	
36 Chlorotrifluoroethene	116		3.531				ND	
37 Vinyl acetate	43		3.556				ND	
38 Isopropyl ether	87		3.574				ND	
39 1,1-Dichloroethane	63		3.575				ND	
40 2-Chloro-1,3-butadiene	53		3.627				ND	
41 Tert-butyl ethyl ether	59		3.833				ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		3.951				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.983				ND	
47 Propionitrile	54		3.998				ND	
48 sec-Butyl Alcohol	45		4.066				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.148				ND	
51 Tetrahydrofuran	42		4.156				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.455				ND	
56 Carbon tetrachloride	117		4.459				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	7
59 1,2-Dichloroethane	62		4.632				ND	7
61 Tert-amyl methyl ether	73		4.673				ND	
60 1,2-Dichloro-1,1,2-trifluoroethane	117		4.678				ND	
62 1,1,1-Trifluoro-2,2-dichloroethane	83		4.706				ND	
63 n-Heptane	43		4.789				ND	
64 n-Butanol	56		4.969				ND	
65 Trichloroethene	95	5.085	5.085	0.000	95	34010	3.94	
66 2-Pentanone	43		5.190				ND	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.483				ND	
73 2-Nitropropane	41		5.647				ND	
74 2-Chloroethyl vinyl ether	63		5.685				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.289				ND	
79 Ethyl methacrylate	69		6.319				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164	6.551	6.551	0.000	68	1793	0.3046	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 Chlorodibromomethane	129		6.798				ND	
85 Tetrahydrothiophene	60		6.847				ND	
86 Ethylene Dibromide	107		6.915				ND	
87 1-Chlorohexane	91	7.316	7.308	0.008	33	3016	0.2678	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.417				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	7
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.915				ND	
94 Bromoform	173		8.095				ND	
95 Isopropylbenzene	105		8.242				ND	
96 cis-1,4-Dichloro-2-butene	53		8.298				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.553				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.119				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
113 1,2,3-Trimethylbenzene	105		9.584				ND	
114 n-Butylbenzene	91		9.891				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.697				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.664				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.013				ND	
135 2,3-Dimethylpentane	1		0.000				ND	
136 2,2-Dimethylpentane	1		0.000				ND	
137 Dimethyl disulfide	1		0.000				ND	
126 cis-1,4-Dichloro-2-butene TIC	1		0.000				ND	
129 Ethyl acrylate	55		0.000				ND	
131 Pentachloroethane TIC	1		0.000				ND	
130 2,2,3-Trimethylbutane	1		0.000				ND	
132 2,4-Dimethylpentane	1		0.000				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
125 Ethylene oxide TIC	1		0.000				ND	
133 3,3-Dimethylpentane	1		0.000				ND	
123 3-Ethylpentane	1		0.000				ND	
128 3-Methylhexane	1		0.000				ND	
127 t-Amyl alcohol	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
122 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
134 2-Methylhexane	1		0.000				ND	
138 Propene oxide TIC	58		5.334				ND	
S 144 TAH	1				0		0	
S 143 1,3-Dichloropropene, Total	1		0.000				ND	7
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7
S 139 Total BTEX	1		0.000				ND	7
T 145 Dichloroacetonitrile TIC	74		1.000				ND	
T 146 Propene TIC	41		1.569				ND	
T 147 1,3-Butadiene TIC	39		1.880				ND	
T 148 4-Ethyltoluene TIC	105		8.845				ND	
T 149 Dicyclopentadiene TIC	66	9.535	9.670	-0.135	38	15768	1.22	
T 151 n-Nonane TIC	1		0.000				ND	
T 150 Cyclohexane TIC	1		0.000				ND	
T 154 1-Chlorohexane TIC	1		0.000				ND	
T 155 Methyl cyclohexane TIC	1		0.000				ND	
T 152 2,3-dichloro-1-propene TIC	75		0.000				ND	
T 153 2-Butoxyethanol TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6796.D

Injection Date: 03-Aug-2023 19:53:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179478-C-4

Lab Sample ID: 280-179478-4

Worklist Smp#: 35

Client ID: RW-8048P-20230721

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

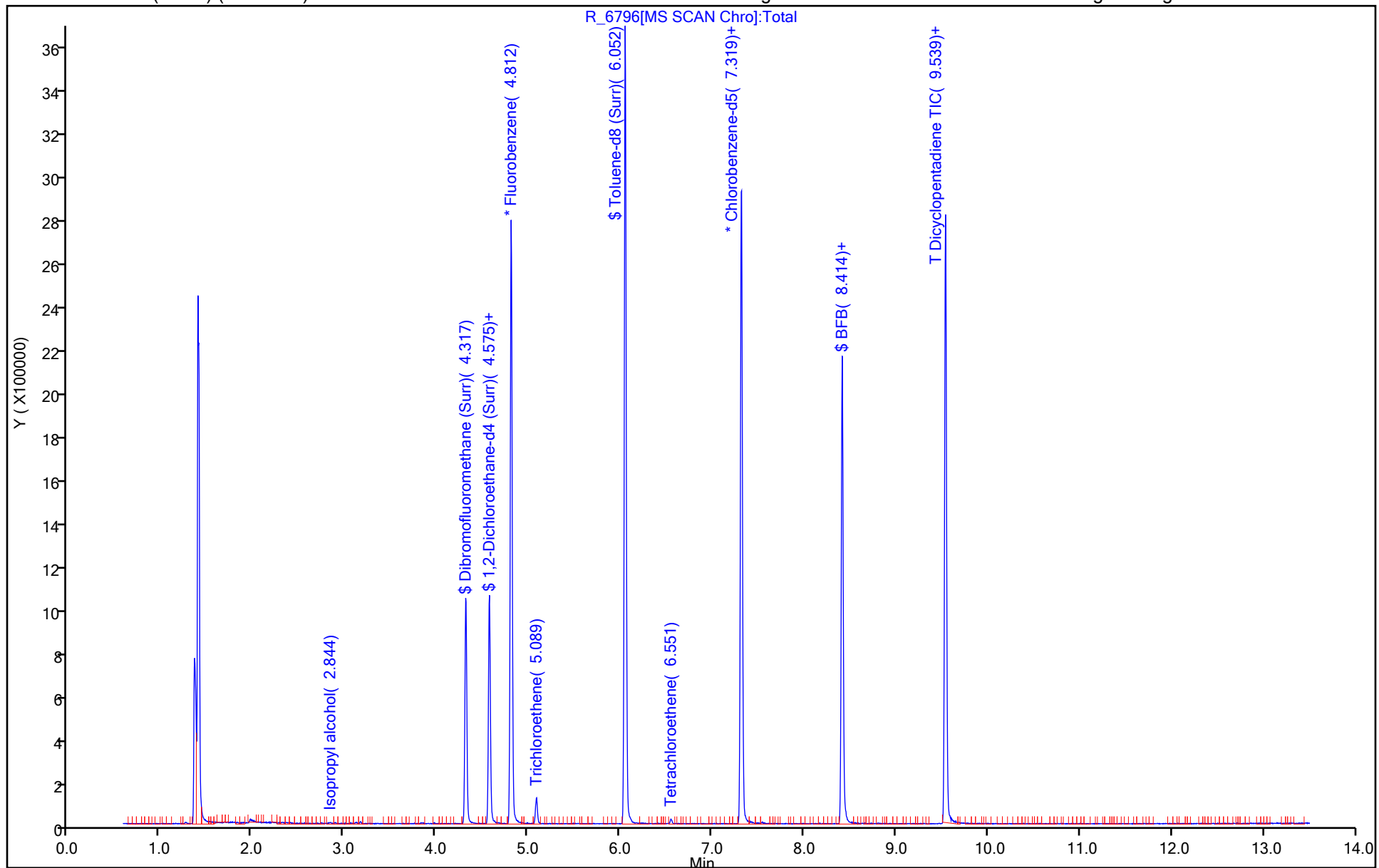
ALS Bottle#: 8

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6796.D
Lims ID: 280-179478-C-4
Client ID: RW-8048P-20230721
Sample Type: Client
Inject. Date: 03-Aug-2023 19:53:30 ALS Bottle#: 8 Worklist Smp#: 35
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-C-4
Misc. Info.: 280-0124173-035
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:13:21

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.6	99.26
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	48.3	96.54
\$ 6 Toluene-d8 (Surr)	50.0	51.2	102.31
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.8	105.62

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6796.D

Injection Date: 03-Aug-2023 19:53:30

Instrument ID: VMS_R1

Lims ID: 280-179478-C-4

Lab Sample ID: 280-179478-4

Client ID: RW-8048P-20230721

Operator ID: sjd

ALS Bottle#: 8

Worklist Smp#: 35

Purge Vol: 5.000 mL

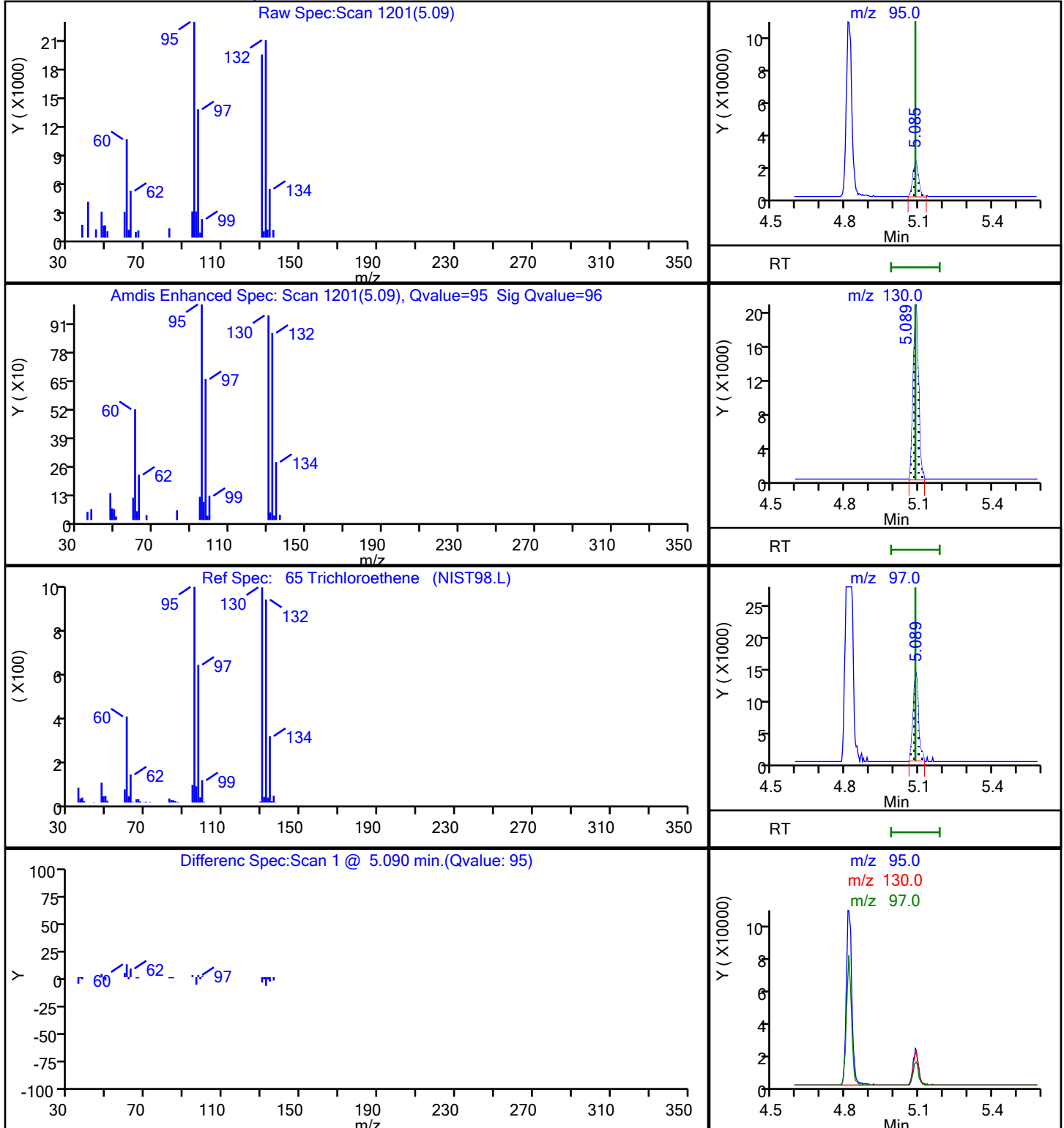
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8012P-20230721</u>	Lab Sample ID: <u>280-179478-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000567.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 14:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 14:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8012P-20230721</u>	Lab Sample ID: <u>280-179478-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000567.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 14:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 14:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	0.99	J	1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: RW-8012P-20230721 Lab Sample ID: 280-179478-5
Matrix: Water Lab File ID: ms11_00000567.D
Analysis Method: 8260D Date Collected: 07/21/2023 14:10
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 14:57
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
2037-26-5	Toluene-d8 (Surr)	103		80-125
1868-53-7	Dibromofluoromethane (Surr)	98		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000567.D
 Lims ID: 280-179478-A-5
 Client ID: RW-8012P-20230721
 Sample Type: Client
 Inject. Date: 03-Aug-2023 14:57:30 ALS Bottle#: 19 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-5
 Misc. Info.: 280-0124144-025
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:07:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1634067	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	423335	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	732249	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	448238	49.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	627586	53.3	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1766326	51.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	94	663454	52.7	
\$ 8 BFB	95	8.657	8.643	0.014	94	665377	NR	
9 Dichlorodifluoromethane	85		1.702				ND	
10 Chloromethane	50	1.883	1.883	0.000	91	2354	0.1985	
11 Vinyl chloride	62		1.981				ND	
12 Bromomethane	94		2.246				ND	
13 Chloroethane	64		2.344				ND	
14 Dichlorofluoromethane	67		2.526				ND	
15 Trichlorofluoromethane	101		2.554				ND	
16 Ethanol	45		2.679				ND	U
17 Ethyl ether	59		2.763				ND	
18 Acrolein	56		2.875				ND	
20 1,1,2-Trichloro-1,2,2-trifluoro	151		2.959				ND	
19 1,1-Dichloroethene	96		2.959				ND	
21 Acetone	43		2.973				ND	7
22 Isopropyl alcohol	45	3.057	3.056	0.001	98	26009	35.7	
23 Iodomethane	142		3.084				ND	
24 Carbon disulfide	76		3.140				ND	7
25 Acetonitrile	41		3.182				ND	
26 Methyl acetate	43		3.196				ND	
27 3-Chloro-1-propene	41		3.224				ND	
28 Methylene Chloride	84		3.308				ND	
29 2-Methyl-2-propanol	59		3.364				ND	
30 Acrylonitrile	53		3.476				ND	
31 Methyl tert-butyl ether	73		3.489				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.517				ND	
33 Hexane	57		3.699				ND	
34 Vinyl acetate	43		3.797				ND	7
36 Isopropyl ether	87		3.825				ND	
35 1,1-Dichloroethane	63		3.825				ND	
37 2-Chloro-1,3-butadiene	53		3.867				ND	
38 Tert-butyl ethyl ether	59		4.076				ND	
39 2-Butanone (MEK)	43		4.202				ND	
40 Ethyl acetate	43		4.216				ND	
41 cis-1,2-Dichloroethene	96		4.230				ND	
43 Propionitrile	54		4.244				ND	
42 2,2-Dichloropropane	77		4.244				ND	
44 sec-Butyl Alcohol	45		4.313				ND	
45 Methacrylonitrile	41		4.355				ND	
46 Chlorobromomethane	128		4.411				ND	
47 Tetrahydrofuran	42		4.411				ND	
48 Chloroform	83		4.467				ND	
49 1,1,1-Trichloroethane	97		4.607				ND	
50 Cyclohexane	56		4.663				ND	
51 1,1-Dichloropropene	75		4.719				ND	
52 Carbon tetrachloride	117		4.719				ND	
53 Isobutyl alcohol	43		4.732				ND	
54 Benzene	78		4.872				ND	
55 1,2-Dichloroethane	62	4.900	4.886	0.014	83	2496	0.1890	
56 Tert-amyl methyl ether	73		4.928				ND	
57 n-Heptane	43		5.040				ND	
58 n-Butanol	56		5.207				ND	
59 Trichloroethene	130	5.347	5.347	0.000	95	9058	0.99	
60 2-Pentanone	43		5.445				ND	
63 Methyl methacrylate	100		5.542				ND	
61 Methylcyclohexane	55		5.543				ND	
62 1,2-Dichloropropane	63		5.543				ND	
64 1,4-Dioxane	88		5.598				ND	
65 Dibromomethane	93		5.626				ND	
66 Dichlorobromomethane	83		5.738				ND	
67 2-Nitropropane	41		5.892				ND	
68 2-Chloroethyl vinyl ether	63		5.934				ND	U
69 cis-1,3-Dichloropropene	75		6.087				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185				ND	
71 Toluene	91		6.367				ND	
72 trans-1,3-Dichloropropene	75		6.534				ND	
73 Ethyl methacrylate	69		6.562				ND	
74 1,1,2-Trichloroethane	97		6.716				ND	
75 Tetrachloroethene	164		6.813				ND	
76 1,3-Dichloropropane	76		6.855				ND	
77 2-Hexanone	43		6.869				ND	
78 Chlorodibromomethane	129		7.051				ND	
79 Ethylene Dibromide	107		7.163				ND	
80 1-Chlorohexane	91		7.554				ND	7
81 Chlorobenzene	112		7.596				ND	7
82 1,1,1,2-Tetrachloroethane	131		7.665				ND	
83 Ethylbenzene	106		7.665				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 m-Xylene & p-Xylene	91		7.791				ND	
85 o-Xylene	106		8.140				ND	
86 Styrene	104		8.154				ND	
87 Bromoform	173		8.336				ND	
88 Isopropylbenzene	105		8.475				ND	
89 cis-1,4-Dichloro-2-butene	53	8.545	8.517	0.028	0	909	0.2519	
90 Cyclohexanone	55		8.573				ND	
91 1,1,2,2-Tetrachloroethane	83		8.755				ND	
93 trans-1,4-Dichloro-2-butene	53		8.797				ND	U
92 Bromobenzene	156		8.797				ND	
94 1,2,3-Trichloropropane	110		8.825				ND	
95 N-Propylbenzene	120		8.866				ND	
96 2-Chlorotoluene	126		8.964				ND	
97 1,3,5-Trimethylbenzene	105		9.034				ND	
98 4-Chlorotoluene	126		9.090				ND	
99 tert-Butylbenzene	119		9.341				ND	
100 1,2,4-Trimethylbenzene	105		9.397				ND	
101 sec-Butylbenzene	134		9.565				ND	
102 1,3-Dichlorobenzene	146		9.690				ND	7
103 4-Isopropyltoluene	119		9.704				ND	
104 1,4-Dichlorobenzene	146		9.788				ND	7
105 1,2,3-Trimethylbenzene	105		9.802				ND	
106 n-Butylbenzene	91		10.109				ND	
107 1,2-Dichlorobenzene	146		10.137				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906				ND	
109 1,3,5-Trichlorobenzene	180		11.101				ND	
110 1,2,4-Trichlorobenzene	180		11.730				ND	
111 Hexachlorobutadiene	225		11.869				ND	
112 Naphthalene	128		11.995				ND	
113 1,2,3-Trichlorobenzene	180		12.204				ND	
114 Methyl cyclohexane TIC	1		0.000				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 1-Chlorohexane TIC	1		0.000				ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
118 Pentachloroethane	167		0.000				ND	
119 t-Amyl alcohol	1		0.000				ND	
120 Ethyl acrylate	55		0.000				ND	
121 Tetrahydrothiophene TIC	1		0.000				ND	
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1		0.000				ND	7
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Trihalomethanes, Total	1		0.000				ND	7
S 126 TAH	1				0		0	7
S 127 Total BTEX	1		0.000				ND	7
T 129 Propene TIC	1		1.369				ND	
T 128 Propene oxide TIC	1		1.369				ND	
T 130 1,3-Butadiene TIC	1		1.985				ND	
T 131 2,3-Dichloro-1-propene TIC	1		6.150				ND	
T 132 4-Ethyltoluene TIC	1		9.345				ND	
T 133 Dicyclopentadiene TIC	1		9.670				ND	
T 134 Dichloroacetonitrile TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:12:04

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000567.D

Injection Date: 03-Aug-2023 14:57:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: 280-179478-A-5

Lab Sample ID: 280-179478-5

Worklist Smp#: 25

Client ID: RW-8012P-20230721

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

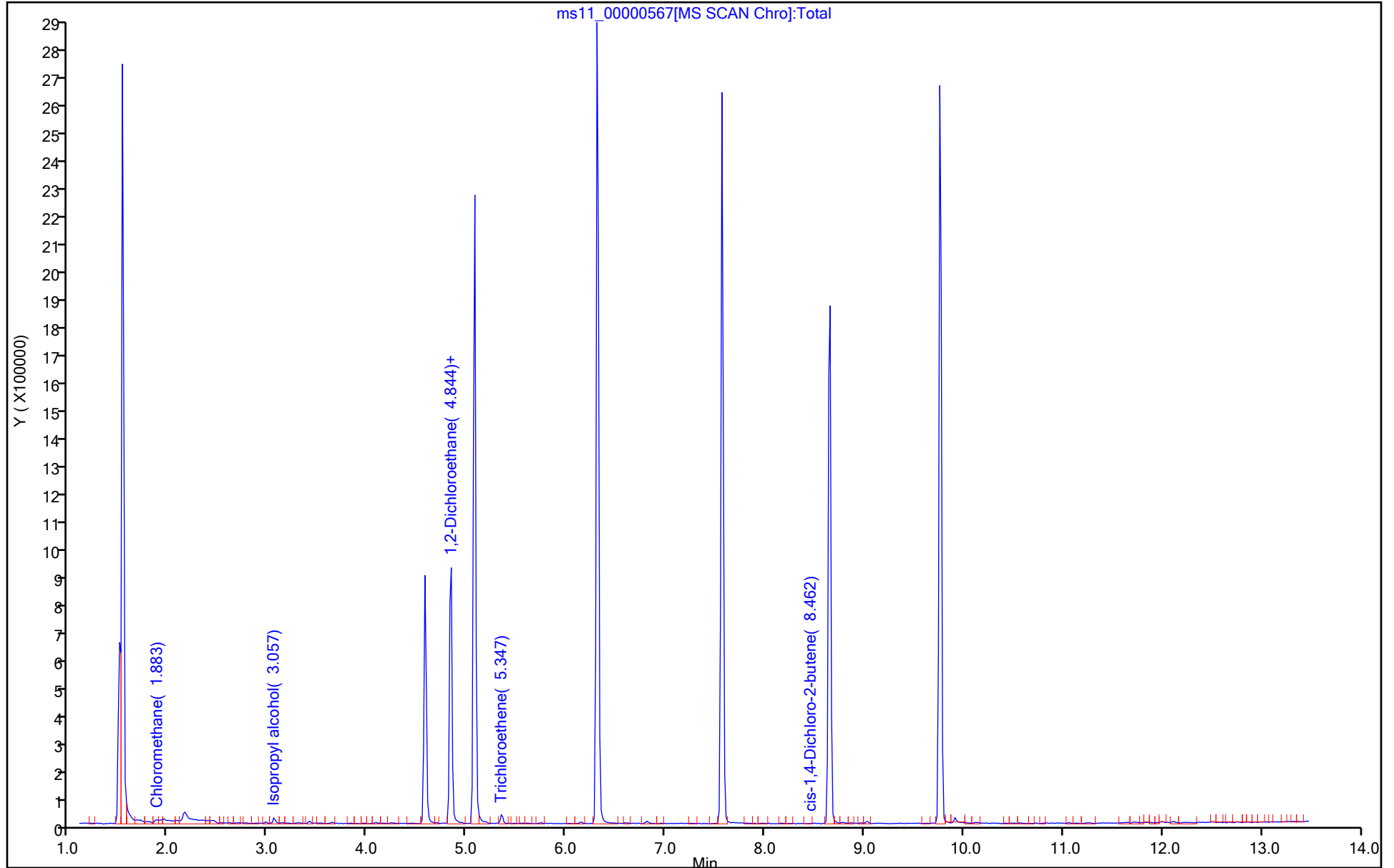
ALS Bottle#: 19

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000567.D
Lims ID: 280-179478-A-5
Client ID: RW-8012P-20230721
Sample Type: Client
Inject. Date: 03-Aug-2023 14:57:30 ALS Bottle#: 19 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-A-5
Misc. Info.: 280-0124144-025
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:07:03

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.1	98.23
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.3	106.70
\$ 6 Toluene-d8 (Surr)	50.0	51.7	103.47
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.7	105.34

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS MS11\20230803-124144.b\ms11_00000567.D

Injection Date: 03-Aug-2023 14:57:30

Instrument ID: VMS MS11

Lims ID: 280-179478-A-5

Lab Sample ID: 280-179478-5

Client ID: RW-8012P-20230721

Operator ID: MED

ALS Bottle#: 19 Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

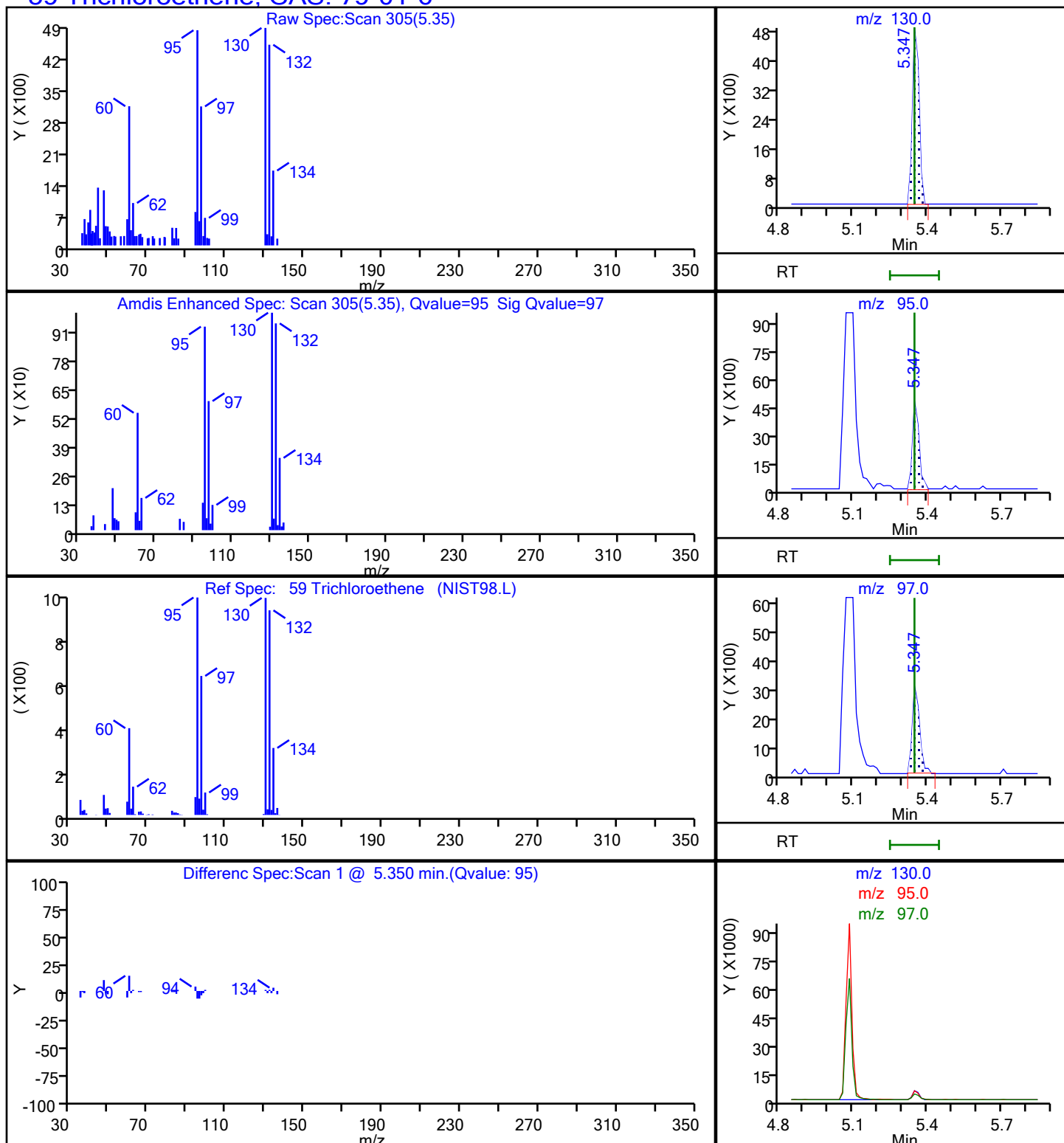
Method: AQ VMS11 8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Detector MS SCAN

59 Trichloroethene, CAS: 79-01-6

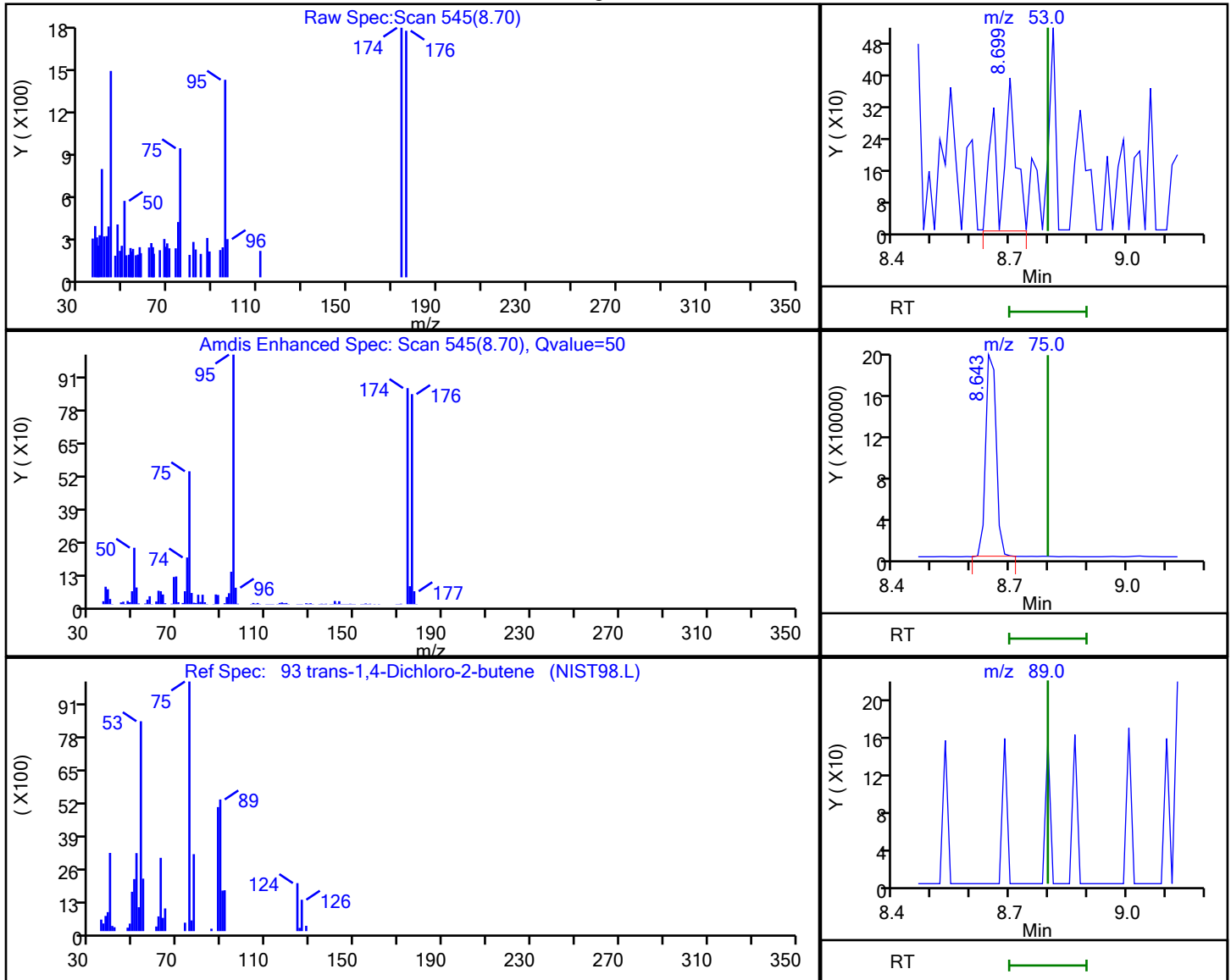


Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000567.D
Injection Date: 03-Aug-2023 14:57:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-5 Lab Sample ID: 280-179478-5
Client ID: RW-8012P-20230721
Operator ID: MED ALS Bottle#: 19 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

93 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
8.70	53.00	1142	0.347233
8.64	75.00	359520	
8.80	89.00	0	

Reviewer: AK2J, 04-Aug-2023 00:06:59 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7677P-20230721</u>	Lab Sample ID: <u>280-179478-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000568.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 15:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 15:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	0.37	J	1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7677P-20230721</u>	Lab Sample ID: <u>280-179478-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000568.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 15:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 15:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	1.2		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	7.0		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: RW-7677P-20230721 Lab Sample ID: 280-179478-6
Matrix: Water Lab File ID: ms11_00000568.D
Analysis Method: 8260D Date Collected: 07/21/2023 15:30
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 15:19
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
2037-26-5	Toluene-d8 (Surr)	104		80-125
1868-53-7	Dibromofluoromethane (Surr)	98		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000568.D
 Lims ID: 280-179478-B-6
 Client ID: RW-7677P-20230721
 Sample Type: Client
 Inject. Date: 03-Aug-2023 15:19:30 ALS Bottle#: 20 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-B-6 HS
 Misc. Info.: 280-0124144-026
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:07:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1664553	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	430339	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	740065	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	454449	48.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	635643	53.0	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1809653	52.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	93	671515	52.7	
\$ 8 BFB	95	8.657	8.643	0.014	93	672399	NR	
9 Dichlorodifluoromethane	85		1.702				ND	
10 Chloromethane	50		1.883				ND	U
11 Vinyl chloride	62		1.981				ND	
12 Bromomethane	94		2.246				ND	
13 Chloroethane	64		2.344				ND	7
14 Dichlorofluoromethane	67		2.526				ND	
15 Trichlorofluoromethane	101		2.554				ND	
16 Ethanol	45		2.679				ND	
17 Ethyl ether	59		2.763				ND	U
18 Acrolein	56		2.875				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.959				ND	
19 1,1-Dichloroethene	96		2.959				ND	
21 Acetone	43		2.973				ND	7
22 Isopropyl alcohol	45	3.057	3.056	0.000	98	34152	49.9	
23 Iodomethane	142		3.084				ND	
24 Carbon disulfide	76		3.140				ND	7
25 Acetonitrile	41		3.182				ND	
26 Methyl acetate	43		3.196				ND	
27 3-Chloro-1-propene	41		3.224				ND	
28 Methylene Chloride	84		3.308				ND	
29 2-Methyl-2-propanol	59		3.364				ND	U
30 Acrylonitrile	53		3.476				ND	U
31 Methyl tert-butyl ether	73		3.489				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.517				ND	
33 Hexane	57		3.699				ND	U
34 Vinyl acetate	43		3.797				ND	
36 Isopropyl ether	87		3.825				ND	
35 1,1-Dichloroethane	63		3.825				ND	
37 2-Chloro-1,3-butadiene	53		3.867				ND	
38 Tert-butyl ethyl ether	59		4.076				ND	
39 2-Butanone (MEK)	43		4.202				ND	
40 Ethyl acetate	43		4.216				ND	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	85	3573	0.3691	
43 Propionitrile	54		4.244				ND	
42 2,2-Dichloropropane	77		4.244				ND	
44 sec-Butyl Alcohol	45		4.313				ND	
45 Methacrylonitrile	41		4.355				ND	
46 Chlorobromomethane	128		4.411				ND	
47 Tetrahydrofuran	42		4.411				ND	
48 Chloroform	83		4.467				ND	
49 1,1,1-Trichloroethane	97		4.607				ND	
50 Cyclohexane	56		4.663				ND	
51 1,1-Dichloropropene	75		4.719				ND	
52 Carbon tetrachloride	117		4.719				ND	
53 Isobutyl alcohol	43		4.732				ND	U
54 Benzene	78		4.872				ND	
55 1,2-Dichloroethane	62	4.900	4.886	0.014	89	2562	0.1905	
56 Tert-amyl methyl ether	73		4.928				ND	
57 n-Heptane	43		5.040				ND	
58 n-Butanol	56		5.207				ND	
59 Trichloroethene	130	5.347	5.347	0.000	96	65027	7.00	
60 2-Pentanone	43		5.445				ND	
63 Methyl methacrylate	100		5.542				ND	
61 Methylcyclohexane	55		5.543				ND	
62 1,2-Dichloropropane	63		5.543				ND	
64 1,4-Dioxane	88		5.598				ND	
65 Dibromomethane	93		5.626				ND	
66 Dichlorobromomethane	83		5.738				ND	
67 2-Nitropropane	41		5.892				ND	
68 2-Chloroethyl vinyl ether	63		5.934				ND	
69 cis-1,3-Dichloropropene	75		6.087				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185				ND	
71 Toluene	91		6.367				ND	
72 trans-1,3-Dichloropropene	75		6.534				ND	
73 Ethyl methacrylate	69		6.562				ND	
74 1,1,2-Trichloroethane	97		6.716				ND	
75 Tetrachloroethene	164	6.813	6.813	0.000	93	8580	1.22	
76 1,3-Dichloropropane	76		6.855				ND	
77 2-Hexanone	43		6.869				ND	
78 Chlorodibromomethane	129		7.051				ND	
79 Ethylene Dibromide	107		7.163				ND	
80 1-Chlorohexane	91		7.554				ND	7
81 Chlorobenzene	112		7.596				ND	
82 1,1,1,2-Tetrachloroethane	131		7.665				ND	
83 Ethylbenzene	106		7.665				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 m-Xylene & p-Xylene	91		7.791				ND	
85 o-Xylene	106		8.140				ND	
86 Styrene	104		8.154				ND	
87 Bromoform	173		8.336				ND	
88 Isopropylbenzene	105		8.475				ND	
89 cis-1,4-Dichloro-2-butene	53	8.503	8.517	-0.014	0	801	0.2197	
90 Cyclohexanone	55		8.573				ND	
91 1,1,2,2-Tetrachloroethane	83		8.755				ND	
93 trans-1,4-Dichloro-2-butene	53		8.797				ND	
92 Bromobenzene	156		8.797				ND	
94 1,2,3-Trichloropropane	110		8.825				ND	
95 N-Propylbenzene	120		8.866				ND	
96 2-Chlorotoluene	126		8.964				ND	
97 1,3,5-Trimethylbenzene	105		9.034				ND	
98 4-Chlorotoluene	126		9.090				ND	
99 tert-Butylbenzene	119		9.341				ND	
100 1,2,4-Trimethylbenzene	105		9.397				ND	
101 sec-Butylbenzene	134		9.565				ND	
102 1,3-Dichlorobenzene	146		9.690				ND	
103 4-Isopropyltoluene	119		9.704				ND	
104 1,4-Dichlorobenzene	146		9.788				ND	
105 1,2,3-Trimethylbenzene	105		9.802				ND	
106 n-Butylbenzene	91		10.109				ND	
107 1,2-Dichlorobenzene	146		10.137				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906				ND	
109 1,3,5-Trichlorobenzene	180		11.101				ND	
110 1,2,4-Trichlorobenzene	180		11.730				ND	
111 Hexachlorobutadiene	225		11.869				ND	
112 Naphthalene	128		11.995				ND	
113 1,2,3-Trichlorobenzene	180		12.204				ND	
114 Methyl cyclohexane TIC	1		0.000				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 1-Chlorohexane TIC	1		0.000				ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
118 Pentachloroethane	167		0.000				ND	
119 t-Amyl alcohol	1		0.000				ND	
120 Ethyl acrylate	55		0.000				ND	
121 Tetrahydrothiophene TIC	1		0.000				ND	
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1				0		0.3691	
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Trihalomethanes, Total	1		0.000				ND	7
S 126 TAH	1				0		0	7
S 127 Total BTEX	1		0.000				ND	7
T 129 Propene TIC	1		1.369				ND	
T 128 Propene oxide TIC	1		1.369				ND	
T 130 1,3-Butadiene TIC	1		1.985				ND	
T 131 2,3-Dichloro-1-propene TIC	1		6.150				ND	
T 132 4-Ethyltoluene TIC	1		9.345				ND	
T 133 Dicyclopentadiene TIC	1		9.670				ND	
T 134 Dichloroacetonitrile TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:13:05

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000568.D

Injection Date: 03-Aug-2023 15:19:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: 280-179478-B-6

Lab Sample ID: 280-179478-6

Worklist Smp#: 26

Client ID: RW-7677P-20230721

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

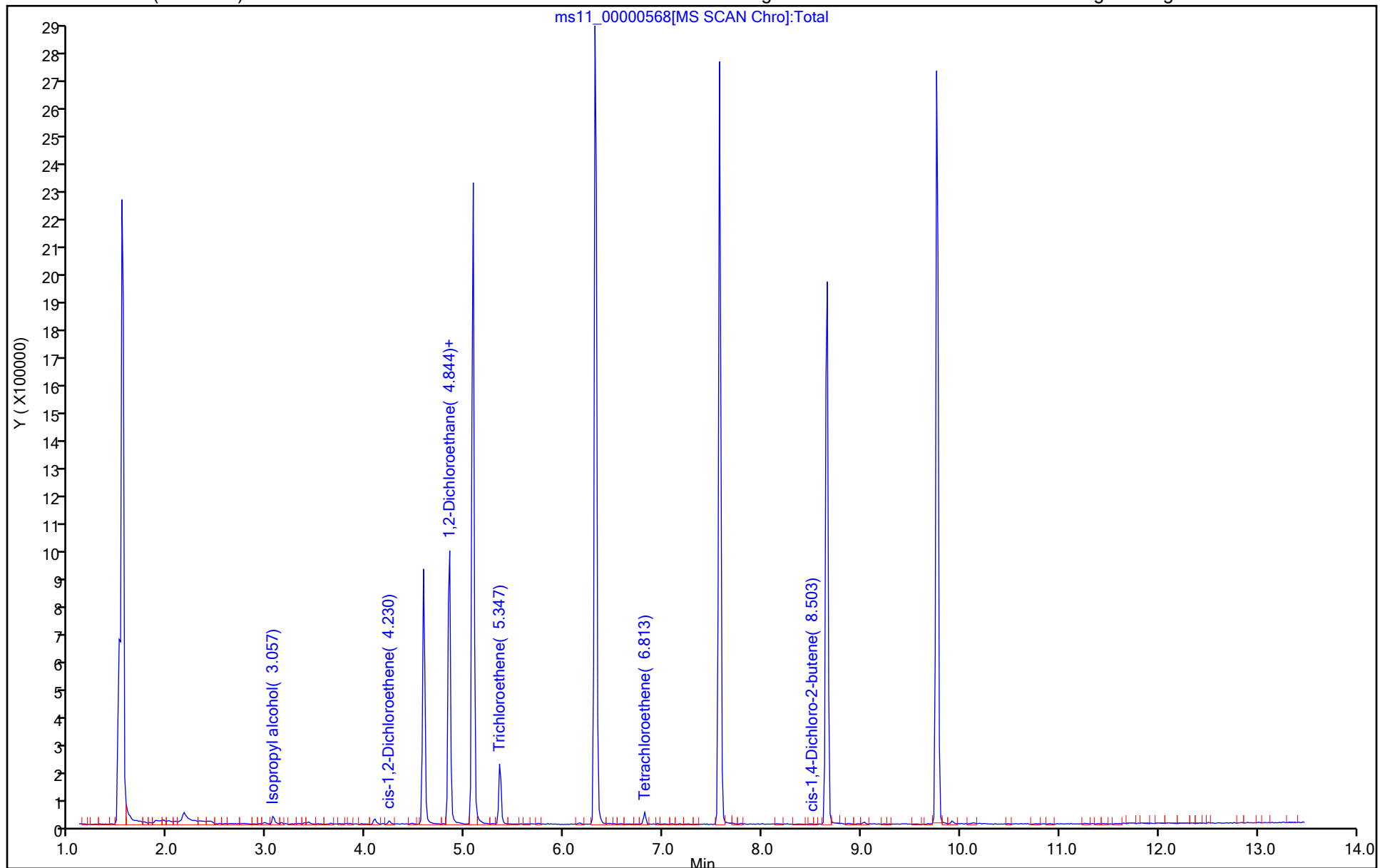
ALS Bottle#: 20

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000568.D
Lims ID: 280-179478-B-6
Client ID: RW-7677P-20230721
Sample Type: Client
Inject. Date: 03-Aug-2023 15:19:30 ALS Bottle#: 20 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-B-6 HS
Misc. Info.: 280-0124144-026
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1613

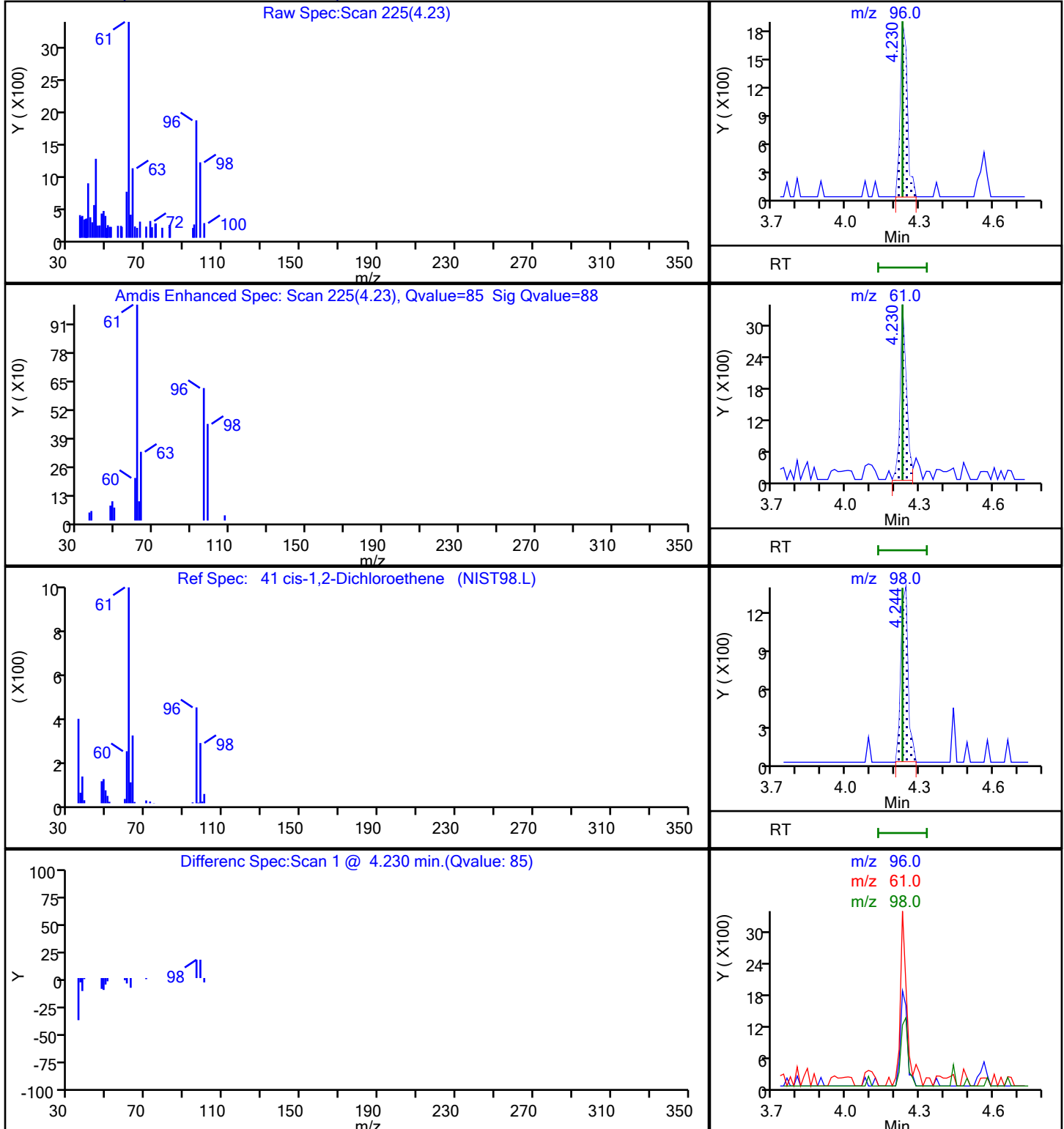
First Level Reviewer: AK2J

Date: 04-Aug-2023 00:07:37

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	48.9	97.77
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.0	106.09
\$ 6 Toluene-d8 (Surr)	50.0	52.1	104.28
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.7	105.50

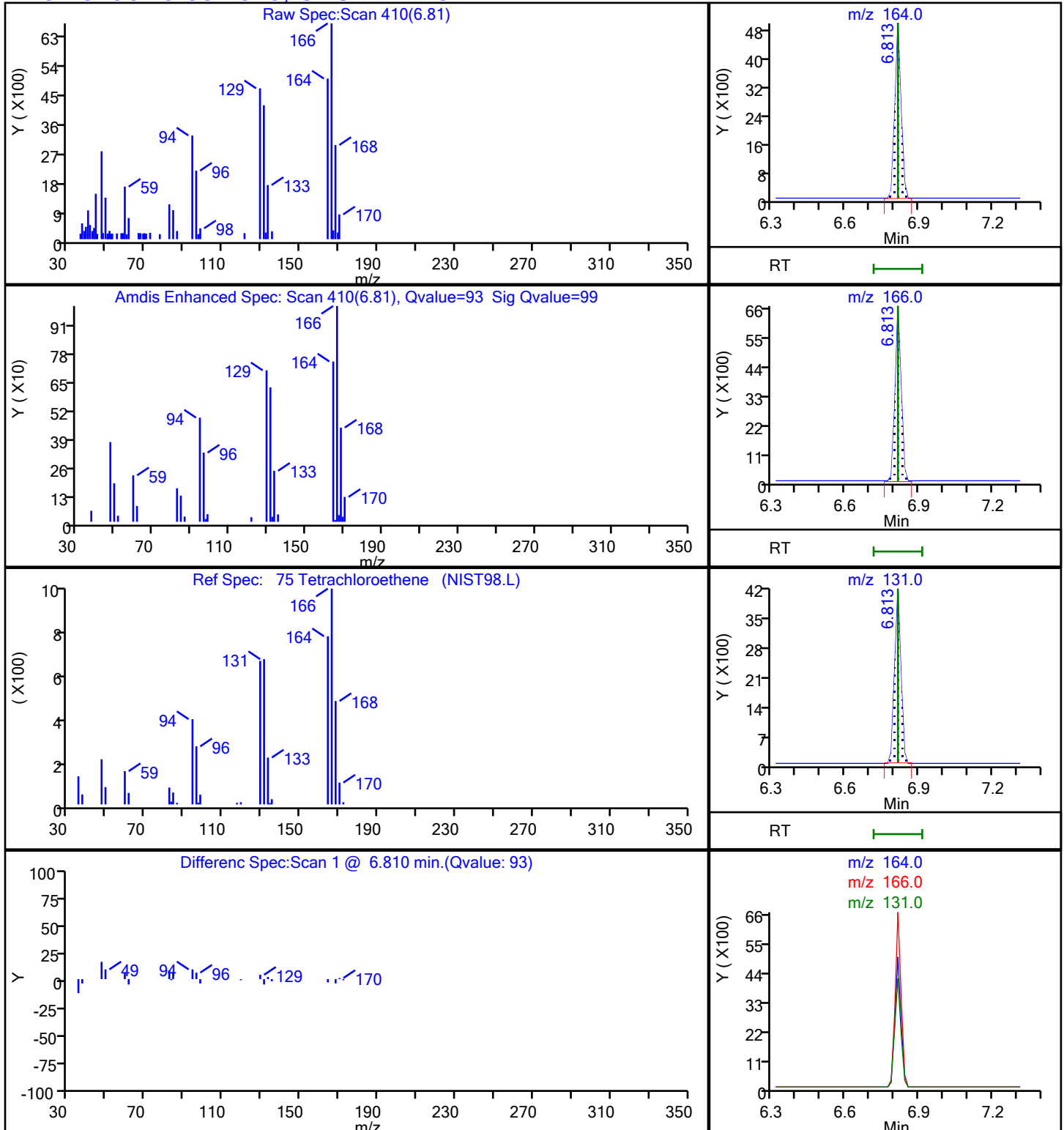
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000568.D
Injection Date: 03-Aug-2023 15:19:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-6 Lab Sample ID: 280-179478-6
Client ID: RW-7677P-20230721
Operator ID: MED ALS Bottle#: 20 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector MS SCAN

41 cis-1,2-Dichloroethene, CAS: 156-59-2

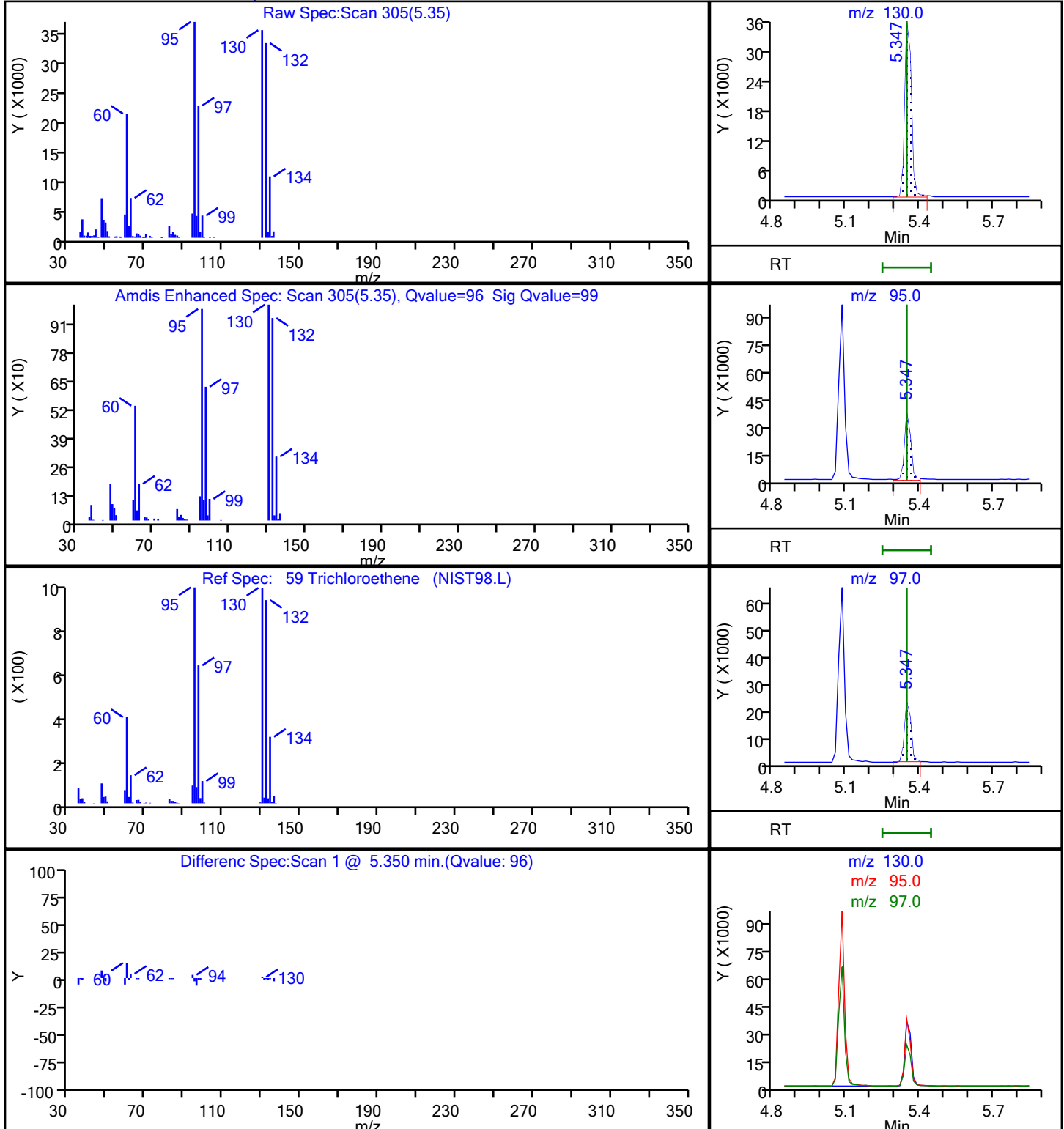
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000568.D
Injection Date: 03-Aug-2023 15:19:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-6 Lab Sample ID: 280-179478-6
Client ID: RW-7677P-20230721
Operator ID: MED ALS Bottle#: 20 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector MS SCAN

75 Tetrachloroethene, CAS: 127-18-4

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000568.D
Injection Date: 03-Aug-2023 15:19:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-6 Lab Sample ID: 280-179478-6
Client ID: RW-7677P-20230721
Operator ID: MED ALS Bottle#: 20 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

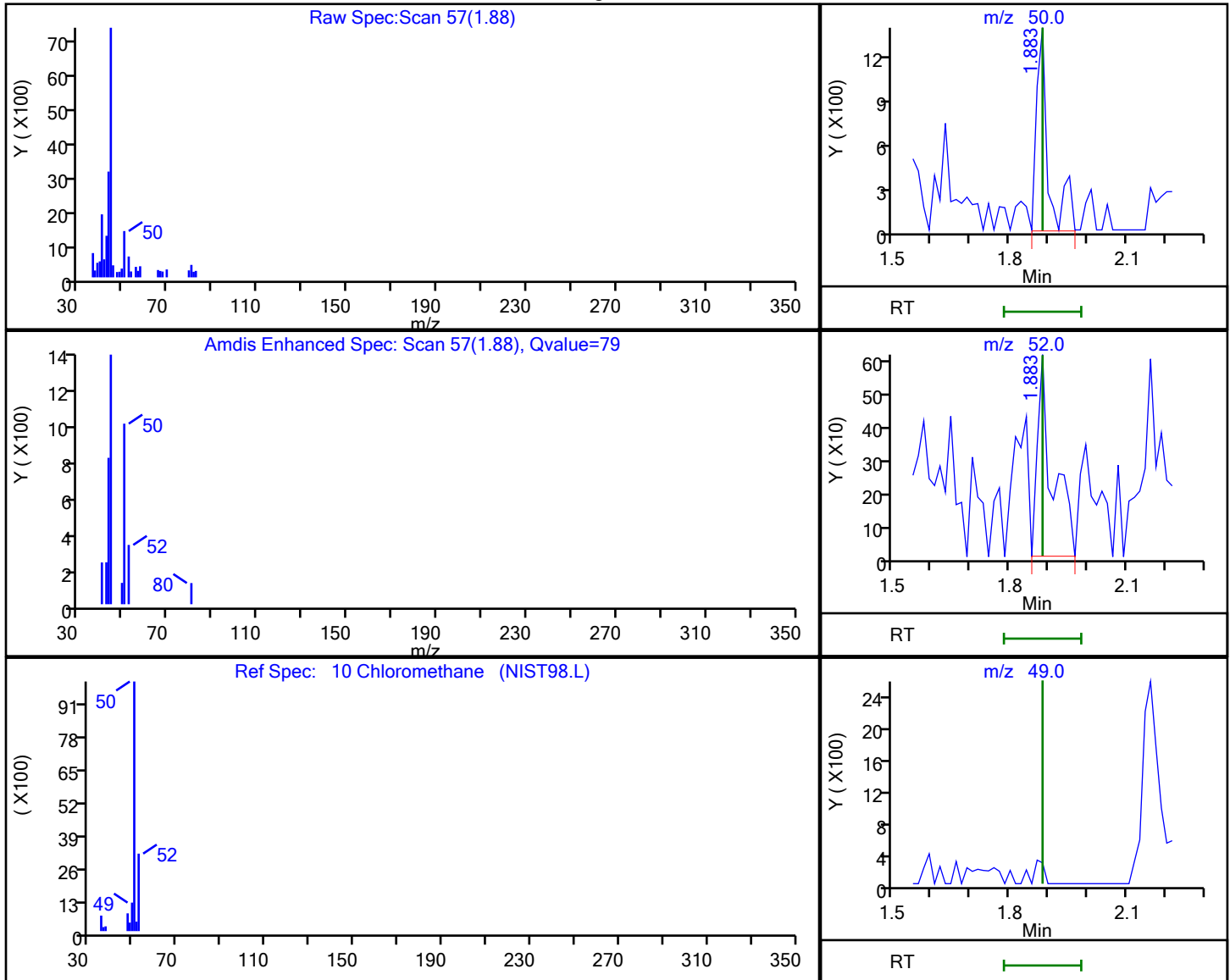
59 Trichloroethene, CAS: 79-01-6

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000568.D
Injection Date: 03-Aug-2023 15:19:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-6 Lab Sample ID: 280-179478-6
Client ID: RW-7677P-20230721
Operator ID: MED ALS Bottle#: 20 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.88	50.00	2841	0.235171
1.88	52.00	1669	
1.88	49.00	0	

Reviewer: AK2J, 04-Aug-2023 00:07:10 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

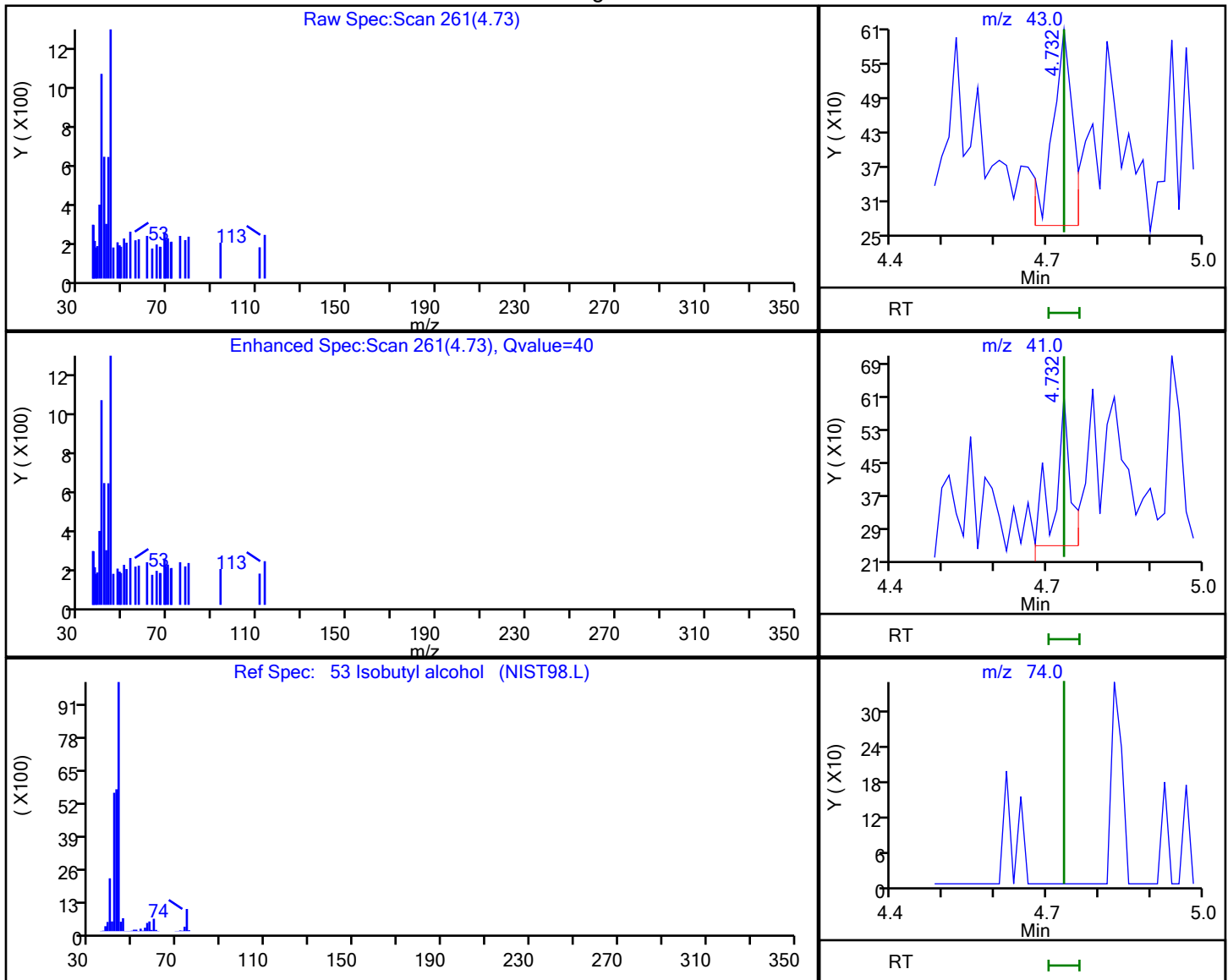
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000568.D
Injection Date: 03-Aug-2023 15:19:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-6 Lab Sample ID: 280-179478-6
Client ID: RW-7677P-20230721
Operator ID: MED ALS Bottle#: 20 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.73	43.00	941	1.905957
4.73	41.00	749	
4.73	74.00	0	

Reviewer: AK2J, 04-Aug-2023 00:07:25 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

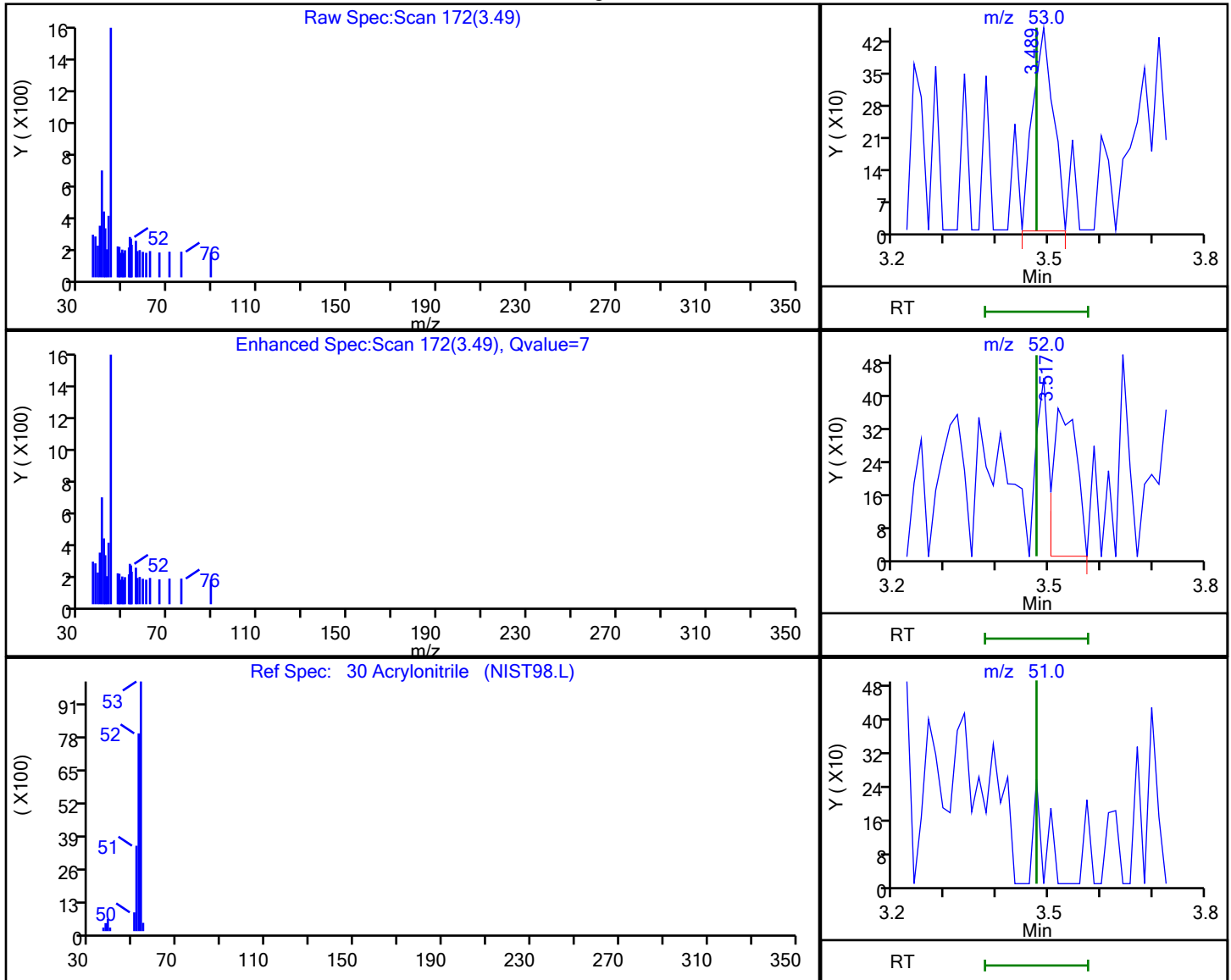
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000568.D
Injection Date: 03-Aug-2023 15:19:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-B-6 Lab Sample ID: 280-179478-6
Client ID: RW-7677P-20230721
Operator ID: MED ALS Bottle#: 20 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

30 Acrylonitrile, CAS: 107-13-1

Processing Results



RT	Mass	Response	Amount
3.49	53.00	1231	0.327505
3.52	52.00	1155	
3.48	51.00	0	

Reviewer: AK2J, 04-Aug-2023 00:07:19 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2213F-20230721</u>	Lab Sample ID: <u>280-179478-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000569.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 15:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 15:40</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-2213F-20230721</u>	Lab Sample ID: <u>280-179478-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000569.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 15:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 15:40</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: RW-2213F-20230721 Lab Sample ID: 280-179478-7
Matrix: Water Lab File ID: ms11_00000569.D
Analysis Method: 8260D Date Collected: 07/21/2023 15:25
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 15:40
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
2037-26-5	Toluene-d8 (Surr)	103		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000569.D
 Lims ID: 280-179478-A-7
 Client ID: RW-2213F-20230721
 Sample Type: Client
 Inject. Date: 03-Aug-2023 15:40:30 ALS Bottle#: 21 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-7
 Misc. Info.: 280-0124144-027
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:07:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1627388	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	423278	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	728471	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	449367	49.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	621800	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1761572	51.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	93	656845	52.4	
\$ 8 BFB	95	8.657	8.643	0.014	93	657745	NR	
9 Dichlorodifluoromethane	85		1.702				ND	
10 Chloromethane	50		1.883				ND	
11 Vinyl chloride	62		1.981				ND	
12 Bromomethane	94		2.246				ND	
13 Chloroethane	64		2.344				ND	
14 Dichlorofluoromethane	67		2.526				ND	
15 Trichlorofluoromethane	101		2.554				ND	
16 Ethanol	45		2.679				ND	U
17 Ethyl ether	59		2.763				ND	
18 Acrolein	56		2.875				ND	
20 1,1,2-Trichloro-1,2,2-trifluoro	151		2.959				ND	
19 1,1-Dichloroethene	96		2.959				ND	
21 Acetone	43		2.973				ND	7
22 Isopropyl alcohol	45		3.056				ND	7
23 Iodomethane	142		3.084				ND	
24 Carbon disulfide	76		3.140				ND	7
25 Acetonitrile	41		3.182				ND	
26 Methyl acetate	43		3.196				ND	
27 3-Chloro-1-propene	41		3.224				ND	
28 Methylene Chloride	84		3.308				ND	
29 2-Methyl-2-propanol	59		3.364				ND	
30 Acrylonitrile	53		3.476				ND	
31 Methyl tert-butyl ether	73		3.489				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.517				ND	
33 Hexane	57		3.699				ND	
34 Vinyl acetate	43		3.797				ND	
36 Isopropyl ether	87		3.825				ND	
35 1,1-Dichloroethane	63		3.825				ND	
37 2-Chloro-1,3-butadiene	53		3.867				ND	
38 Tert-butyl ethyl ether	59		4.076				ND	
39 2-Butanone (MEK)	43		4.202				ND	
40 Ethyl acetate	43		4.216				ND	
41 cis-1,2-Dichloroethene	96		4.230				ND	
43 Propionitrile	54		4.244				ND	
42 2,2-Dichloropropane	77		4.244				ND	
44 sec-Butyl Alcohol	45		4.313				ND	
45 Methacrylonitrile	41		4.355				ND	
46 Chlorobromomethane	128		4.411				ND	
47 Tetrahydrofuran	42		4.411				ND	
48 Chloroform	83		4.467				ND	
49 1,1,1-Trichloroethane	97		4.607				ND	
50 Cyclohexane	56		4.663				ND	
51 1,1-Dichloropropene	75		4.719				ND	
52 Carbon tetrachloride	117		4.719				ND	
53 Isobutyl alcohol	43		4.732				ND	
54 Benzene	78		4.872				ND	
55 1,2-Dichloroethane	62	4.900	4.886	0.014	86	2411	0.1833	
56 Tert-amyl methyl ether	73		4.928				ND	
57 n-Heptane	43		5.040				ND	
58 n-Butanol	56		5.207				ND	
59 Trichloroethene	130		5.347				ND	
60 2-Pentanone	43		5.445				ND	
63 Methyl methacrylate	100		5.542				ND	
61 Methylcyclohexane	55		5.543				ND	
62 1,2-Dichloropropane	63		5.543				ND	
64 1,4-Dioxane	88		5.598				ND	
65 Dibromomethane	93		5.626				ND	
66 Dichlorobromomethane	83		5.738				ND	
67 2-Nitropropane	41		5.892				ND	
68 2-Chloroethyl vinyl ether	63		5.934				ND	
69 cis-1,3-Dichloropropene	75		6.087				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185				ND	
71 Toluene	91		6.367				ND	
72 trans-1,3-Dichloropropene	75		6.534				ND	
73 Ethyl methacrylate	69		6.562				ND	
74 1,1,2-Trichloroethane	97		6.716				ND	
75 Tetrachloroethene	164		6.813				ND	
76 1,3-Dichloropropane	76		6.855				ND	
77 2-Hexanone	43		6.869				ND	
78 Chlorodibromomethane	129		7.051				ND	
79 Ethylene Dibromide	107		7.163				ND	
80 1-Chlorohexane	91		7.554				ND	7
81 Chlorobenzene	112		7.596				ND	7
82 1,1,1,2-Tetrachloroethane	131		7.665				ND	
83 Ethylbenzene	106		7.665				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 m-Xylene & p-Xylene	91		7.791				ND	
85 o-Xylene	106		8.140				ND	
86 Styrene	104		8.154				ND	
87 Bromoform	173		8.336				ND	
88 Isopropylbenzene	105		8.475				ND	
89 cis-1,4-Dichloro-2-butene	53		8.517				ND	7
90 Cyclohexanone	55		8.573				ND	
91 1,1,2,2-Tetrachloroethane	83		8.755				ND	
93 trans-1,4-Dichloro-2-butene	53		8.797				ND	
92 Bromobenzene	156		8.797				ND	
94 1,2,3-Trichloropropane	110		8.825				ND	
95 N-Propylbenzene	120		8.866				ND	
96 2-Chlorotoluene	126		8.964				ND	
97 1,3,5-Trimethylbenzene	105		9.034				ND	
98 4-Chlorotoluene	126		9.090				ND	
99 tert-Butylbenzene	119		9.341				ND	
100 1,2,4-Trimethylbenzene	105		9.397				ND	
101 sec-Butylbenzene	134		9.565				ND	
102 1,3-Dichlorobenzene	146		9.690				ND	7
103 4-Isopropyltoluene	119		9.704				ND	
104 1,4-Dichlorobenzene	146		9.788				ND	7
105 1,2,3-Trimethylbenzene	105		9.802				ND	
106 n-Butylbenzene	91		10.109				ND	
107 1,2-Dichlorobenzene	146		10.137				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906				ND	
109 1,3,5-Trichlorobenzene	180		11.101				ND	
110 1,2,4-Trichlorobenzene	180		11.730				ND	
111 Hexachlorobutadiene	225		11.869				ND	
112 Naphthalene	128		11.995				ND	
113 1,2,3-Trichlorobenzene	180		12.204				ND	
114 Methyl cyclohexane TIC	1		0.000				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 1-Chlorohexane TIC	1		0.000				ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
118 Pentachloroethane	167		0.000				ND	
119 t-Amyl alcohol	1		0.000				ND	
120 Ethyl acrylate	55		0.000				ND	
121 Tetrahydrothiophene TIC	1		0.000				ND	
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1		0.000				ND	7
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Trihalomethanes, Total	1		0.000				ND	7
S 126 TAH	1				0		0	7
S 127 Total BTEX	1		0.000				ND	7
T 129 Propene TIC	1		1.369				ND	
T 128 Propene oxide TIC	1		1.369				ND	
T 130 1,3-Butadiene TIC	1		1.985				ND	
T 131 2,3-Dichloro-1-propene TIC	1		6.150				ND	
T 132 4-Ethyltoluene TIC	1		9.345				ND	
T 133 Dicyclopentadiene TIC	1		9.670				ND	
T 134 Dichloroacetonitrile TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:13:06

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000569.D

Injection Date: 03-Aug-2023 15:40:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: 280-179478-A-7

Lab Sample ID: 280-179478-7

Worklist Smp#: 27

Client ID: RW-2213F-20230721

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

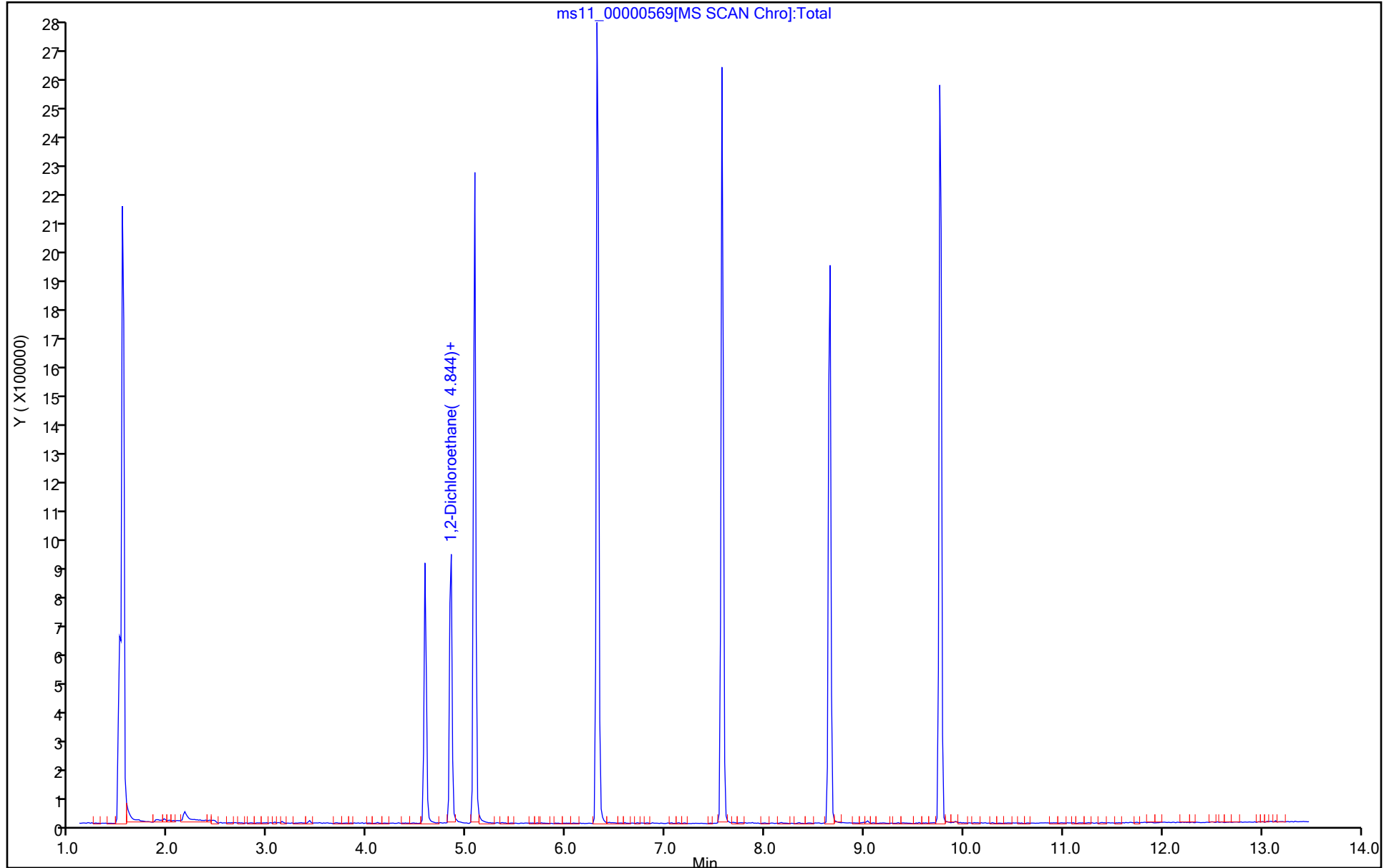
ALS Bottle#: 21

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000569.D
Lims ID: 280-179478-A-7
Client ID: RW-2213F-20230721
Sample Type: Client
Inject. Date: 03-Aug-2023 15:40:30 ALS Bottle#: 21 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-A-7
Misc. Info.: 280-0124144-027
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:07:50

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.4	98.88
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.15
\$ 6 Toluene-d8 (Surr)	50.0	51.6	103.21
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.4	104.84

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7773P-20230721</u>	Lab Sample ID: <u>280-179478-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000570.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 16:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 16:02</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7773P-20230721</u>	Lab Sample ID: <u>280-179478-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000570.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 16:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 16:02</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: RW-7773P-20230721 Lab Sample ID: 280-179478-8
Matrix: Water Lab File ID: ms11_00000570.D
Analysis Method: 8260D Date Collected: 07/21/2023 16:20
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 16:02
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
2037-26-5	Toluene-d8 (Surr)	106		80-125
1868-53-7	Dibromofluoromethane (Surr)	97		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000570.D
 Lims ID: 280-179478-A-8
 Client ID: RW-7773P-20230721
 Sample Type: Client
 Inject. Date: 03-Aug-2023 16:02:30 ALS Bottle#: 22 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-8
 Misc. Info.: 280-0124144-028
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:08:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1619067	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	91	412588	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	721381	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	440688	48.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	628954	54.0	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1759120	52.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	92	650094	52.4	
\$ 8 BFB	95	8.657	8.643	0.014	92	654884	NR	
9 Dichlorodifluoromethane	85		1.702				ND	
10 Chloromethane	50		1.883				ND	U
11 Vinyl chloride	62		1.981				ND	
12 Bromomethane	94		2.246				ND	
13 Chloroethane	64		2.344				ND	
14 Dichlorofluoromethane	67		2.526				ND	
15 Trichlorofluoromethane	101		2.554				ND	
16 Ethanol	45		2.679				ND	U
17 Ethyl ether	59		2.763				ND	
18 Acrolein	56		2.875				ND	U
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.959				ND	
19 1,1-Dichloroethene	96		2.959				ND	
21 Acetone	43		2.973				ND	7
22 Isopropyl alcohol	45		3.056				ND	
23 Iodomethane	142		3.084				ND	
24 Carbon disulfide	76		3.140				ND	7
25 Acetonitrile	41		3.182				ND	
26 Methyl acetate	43		3.196				ND	
27 3-Chloro-1-propene	41		3.224				ND	
28 Methylene Chloride	84	3.322	3.308	0.014	91	1113	0.1239	
29 2-Methyl-2-propanol	59		3.364				ND	
30 Acrylonitrile	53		3.476				ND	
31 Methyl tert-butyl ether	73		3.489				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.517				ND	
33 Hexane	57		3.699				ND	
34 Vinyl acetate	43		3.797				ND	
36 Isopropyl ether	87		3.825				ND	
35 1,1-Dichloroethane	63		3.825				ND	
37 2-Chloro-1,3-butadiene	53		3.867				ND	
38 Tert-butyl ethyl ether	59		4.076				ND	
39 2-Butanone (MEK)	43		4.202				ND	
40 Ethyl acetate	43		4.216				ND	
41 cis-1,2-Dichloroethene	96		4.230				ND	
43 Propionitrile	54		4.244				ND	
42 2,2-Dichloropropane	77		4.244				ND	
44 sec-Butyl Alcohol	45		4.313				ND	
45 Methacrylonitrile	41		4.355				ND	
46 Chlorobromomethane	128		4.411				ND	
47 Tetrahydrofuran	42		4.411				ND	
48 Chloroform	83		4.467				ND	
49 1,1,1-Trichloroethane	97		4.607				ND	
50 Cyclohexane	56		4.663				ND	
51 1,1-Dichloropropene	75		4.719				ND	
52 Carbon tetrachloride	117		4.719				ND	
53 Isobutyl alcohol	43		4.732				ND	
54 Benzene	78		4.872				ND	
55 1,2-Dichloroethane	62	4.900	4.886	0.014	80	2310	0.1765	
56 Tert-amyl methyl ether	73		4.928				ND	
57 n-Heptane	43		5.040				ND	
58 n-Butanol	56		5.207				ND	
59 Trichloroethene	130		5.347				ND	
60 2-Pentanone	43		5.445				ND	
63 Methyl methacrylate	100		5.542				ND	
61 Methylcyclohexane	55		5.543				ND	
62 1,2-Dichloropropane	63		5.543				ND	
64 1,4-Dioxane	88		5.598				ND	
65 Dibromomethane	93		5.626				ND	
66 Dichlorobromomethane	83		5.738				ND	
67 2-Nitropropane	41		5.892				ND	
68 2-Chloroethyl vinyl ether	63		5.934				ND	
69 cis-1,3-Dichloropropene	75		6.087				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185				ND	
71 Toluene	91		6.367				ND	7
72 trans-1,3-Dichloropropene	75		6.534				ND	
73 Ethyl methacrylate	69		6.562				ND	
74 1,1,2-Trichloroethane	97		6.716				ND	
75 Tetrachloroethene	164		6.813				ND	
76 1,3-Dichloropropane	76		6.855				ND	
77 2-Hexanone	43		6.869				ND	
78 Chlorodibromomethane	129		7.051				ND	
79 Ethylene Dibromide	107		7.163				ND	
80 1-Chlorohexane	91		7.554				ND	7
81 Chlorobenzene	112		7.596				ND	
82 1,1,1,2-Tetrachloroethane	131		7.665				ND	
83 Ethylbenzene	106		7.665				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 m-Xylene & p-Xylene	91		7.791				ND	
85 o-Xylene	106		8.140				ND	
86 Styrene	104		8.154				ND	
87 Bromoform	173		8.336				ND	
88 Isopropylbenzene	105		8.475				ND	
89 cis-1,4-Dichloro-2-butene	53		8.517				ND	7
90 Cyclohexanone	55		8.573				ND	
91 1,1,2,2-Tetrachloroethane	83		8.755				ND	
93 trans-1,4-Dichloro-2-butene	53		8.797				ND	
92 Bromobenzene	156		8.797				ND	
94 1,2,3-Trichloropropane	110		8.825				ND	
95 N-Propylbenzene	120		8.866				ND	
96 2-Chlorotoluene	126		8.964				ND	
97 1,3,5-Trimethylbenzene	105		9.034				ND	
98 4-Chlorotoluene	126		9.090				ND	
99 tert-Butylbenzene	119		9.341				ND	
100 1,2,4-Trimethylbenzene	105		9.397				ND	
101 sec-Butylbenzene	134		9.565				ND	
102 1,3-Dichlorobenzene	146		9.690				ND	
103 4-Isopropyltoluene	119		9.704				ND	
104 1,4-Dichlorobenzene	146		9.788				ND	
105 1,2,3-Trimethylbenzene	105		9.802				ND	
106 n-Butylbenzene	91		10.109				ND	
107 1,2-Dichlorobenzene	146		10.137				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906				ND	
109 1,3,5-Trichlorobenzene	180		11.101				ND	
110 1,2,4-Trichlorobenzene	180		11.730				ND	
111 Hexachlorobutadiene	225		11.869				ND	
112 Naphthalene	128		11.995				ND	
113 1,2,3-Trichlorobenzene	180		12.204				ND	
114 Methyl cyclohexane TIC	1		0.000				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 1-Chlorohexane TIC	1		0.000				ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
118 Pentachloroethane	167		0.000				ND	
119 t-Amyl alcohol	1		0.000				ND	
120 Ethyl acrylate	55		0.000				ND	
121 Tetrahydrothiophene TIC	1		0.000				ND	
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1		0.000				ND	7
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Trihalomethanes, Total	1		0.000				ND	7
S 126 TAH	1				0		0	7
S 127 Total BTEX	1		0.000				ND	7
T 129 Propene TIC	1		1.369				ND	
T 128 Propene oxide TIC	1		1.369				ND	
T 130 1,3-Butadiene TIC	1		1.985				ND	
T 131 2,3-Dichloro-1-propene TIC	1		6.150				ND	
T 132 4-Ethyltoluene TIC	1		9.345				ND	
T 133 Dicyclopentadiene TIC	1		9.670				ND	
T 134 Dichloroacetonitrile TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:13:08

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000570.D

Injection Date: 03-Aug-2023 16:02:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: 280-179478-A-8

Lab Sample ID: 280-179478-8

Worklist Smp#: 28

Client ID: RW-7773P-20230721

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

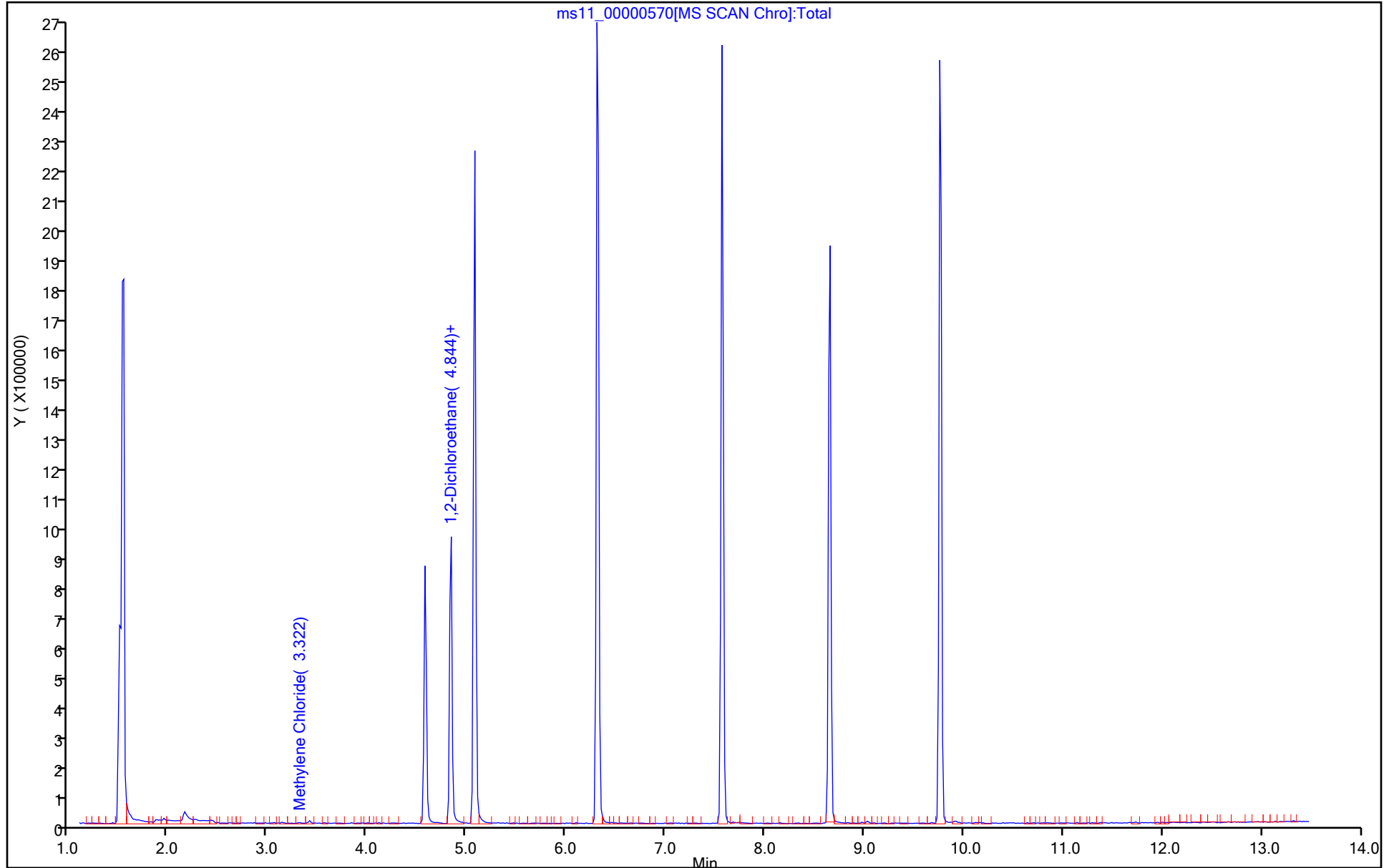
ALS Bottle#: 22

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000570.D
 Lims ID: 280-179478-A-8
 Client ID: RW-7773P-20230721
 Sample Type: Client
 Inject. Date: 03-Aug-2023 16:02:30 ALS Bottle#: 22 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-8
 Misc. Info.: 280-0124144-028
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:08:20

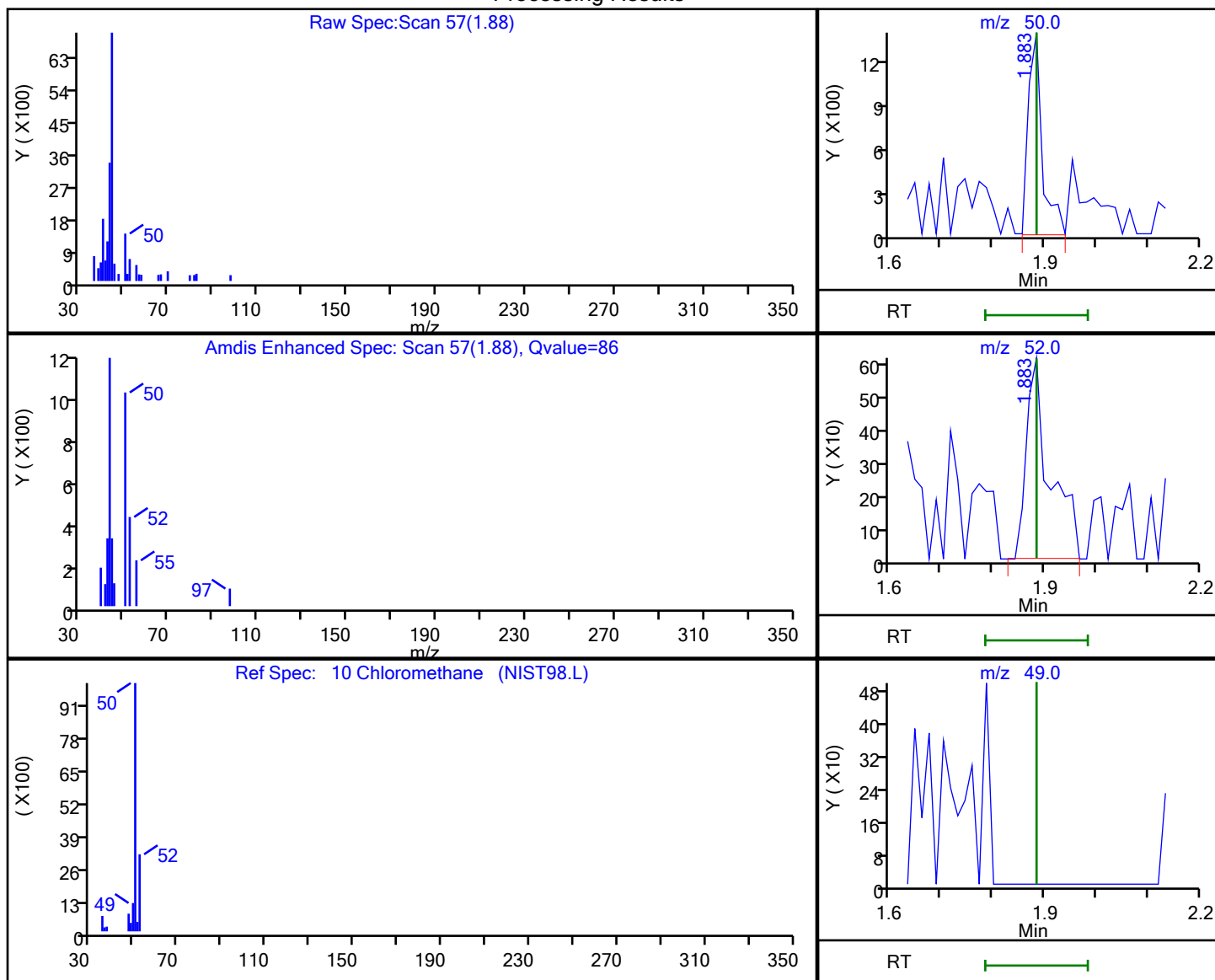
Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	48.7	97.47
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	54.0	107.92
\$ 6 Toluene-d8 (Surr)	50.0	52.9	105.73
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.4	104.78

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000570.D
Injection Date: 03-Aug-2023 16:02:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-8 Lab Sample ID: 280-179478-8
Client ID: RW-7773P-20230721
Operator ID: MED ALS Bottle#: 22 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.88	50.00	2486	0.211567
1.88	52.00	1962	
1.88	49.00	0	

Reviewer: AK2J, 04-Aug-2023 00:08:05 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

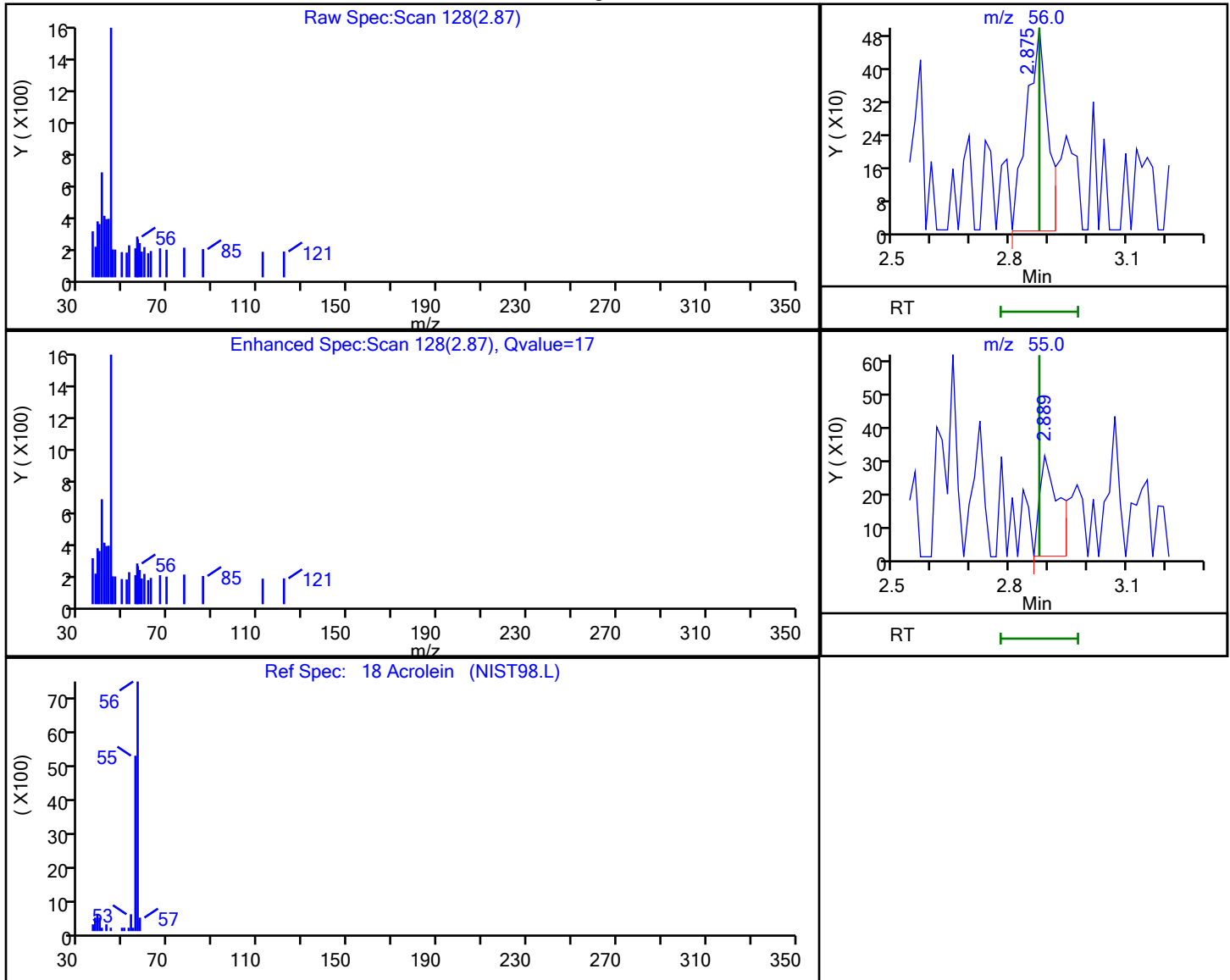
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000570.D
Injection Date: 03-Aug-2023 16:02:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-8 Lab Sample ID: 280-179478-8
Client ID: RW-7773P-20230721
Operator ID: MED ALS Bottle#: 22 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

18 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
2.87	56.00	1869	1.486521
2.89	55.00	1044	

Reviewer: AK2J, 04-Aug-2023 00:08:09 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7549P-20230721</u>	Lab Sample ID: <u>280-179478-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000571.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 16:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 16:23</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-7549P-20230721</u>	Lab Sample ID: <u>280-179478-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000571.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 16:40</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 16:23</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	2.0		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: RW-7549P-20230721 Lab Sample ID: 280-179478-9
Matrix: Water Lab File ID: ms11_00000571.D
Analysis Method: 8260D Date Collected: 07/21/2023 16:40
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 16:23
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	97		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000571.D
 Lims ID: 280-179478-A-9
 Client ID: RW-7549P-20230721
 Sample Type: Client
 Inject. Date: 03-Aug-2023 16:23:30 ALS Bottle#: 23 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-9
 Misc. Info.: 280-0124144-029
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:08:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1592158	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	91	414588	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	724687	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	432019	48.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	615327	53.7	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1712356	51.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	93	644616	51.7	
\$ 8 BFB	95	8.657	8.643	0.014	93	649708	NR	
9 Dichlorodifluoromethane	85		1.702				ND	
10 Chloromethane	50		1.883				ND	
11 Vinyl chloride	62		1.981				ND	
12 Bromomethane	94		2.246				ND	
13 Chloroethane	64		2.344				ND	7
14 Dichlorofluoromethane	67		2.526				ND	
15 Trichlorofluoromethane	101		2.554				ND	
16 Ethanol	45		2.679				ND	U
17 Ethyl ether	59		2.763				ND	
18 Acrolein	56		2.875				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.959				ND	
19 1,1-Dichloroethene	96		2.959				ND	
21 Acetone	43		2.973				ND	7
22 Isopropyl alcohol	45	3.057	3.056	0.001	97	41606	67.3	
23 Iodomethane	142		3.084				ND	
24 Carbon disulfide	76		3.140				ND	7
25 Acetonitrile	41		3.182				ND	
26 Methyl acetate	43		3.196				ND	
27 3-Chloro-1-propene	41		3.224				ND	
28 Methylene Chloride	84		3.308				ND	
29 2-Methyl-2-propanol	59		3.364				ND	U
30 Acrylonitrile	53		3.476				ND	
31 Methyl tert-butyl ether	73		3.489				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.517				ND	
33 Hexane	57		3.699				ND	U
34 Vinyl acetate	43		3.797				ND	
36 Isopropyl ether	87		3.825				ND	
35 1,1-Dichloroethane	63		3.825				ND	
37 2-Chloro-1,3-butadiene	53		3.867				ND	
38 Tert-butyl ethyl ether	59		4.076				ND	
39 2-Butanone (MEK)	43		4.202				ND	
40 Ethyl acetate	43		4.216				ND	
41 cis-1,2-Dichloroethene	96		4.230				ND	U
43 Propionitrile	54		4.244				ND	
42 2,2-Dichloropropane	77		4.244				ND	
44 sec-Butyl Alcohol	45		4.313				ND	
45 Methacrylonitrile	41		4.355				ND	
46 Chlorobromomethane	128		4.411				ND	
47 Tetrahydrofuran	42		4.411				ND	
48 Chloroform	83		4.467				ND	
49 1,1,1-Trichloroethane	97		4.607				ND	
50 Cyclohexane	56		4.663				ND	
51 1,1-Dichloropropene	75		4.719				ND	
52 Carbon tetrachloride	117		4.719				ND	
53 Isobutyl alcohol	43		4.732				ND	
54 Benzene	78		4.872				ND	
55 1,2-Dichloroethane	62		4.886				ND	U
56 Tert-amyl methyl ether	73		4.928				ND	
57 n-Heptane	43		5.040				ND	
58 n-Butanol	56		5.207				ND	
59 Trichloroethene	130	5.347	5.347	0.000	95	17594	1.98	
60 2-Pentanone	43		5.445				ND	
63 Methyl methacrylate	100		5.542				ND	
61 Methylcyclohexane	55		5.543				ND	
62 1,2-Dichloropropane	63		5.543				ND	
64 1,4-Dioxane	88		5.598				ND	
65 Dibromomethane	93		5.626				ND	
66 Dichlorobromomethane	83		5.738				ND	
67 2-Nitropropane	41		5.892				ND	
68 2-Chloroethyl vinyl ether	63		5.934				ND	
69 cis-1,3-Dichloropropene	75		6.087				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185				ND	
71 Toluene	91		6.367				ND	
72 trans-1,3-Dichloropropene	75		6.534				ND	
73 Ethyl methacrylate	69		6.562				ND	
74 1,1,2-Trichloroethane	97		6.716				ND	
75 Tetrachloroethene	164		6.813				ND	
76 1,3-Dichloropropane	76		6.855				ND	
77 2-Hexanone	43		6.869				ND	
78 Chlorodibromomethane	129		7.051				ND	
79 Ethylene Dibromide	107		7.163				ND	
80 1-Chlorohexane	91		7.554				ND	7
81 Chlorobenzene	112		7.596				ND	
82 1,1,1,2-Tetrachloroethane	131		7.665				ND	
83 Ethylbenzene	106		7.665				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 m-Xylene & p-Xylene	91		7.791				ND	
85 o-Xylene	106		8.140				ND	
86 Styrene	104		8.154				ND	
87 Bromoform	173		8.336				ND	
88 Isopropylbenzene	105		8.475				ND	
89 cis-1,4-Dichloro-2-butene	53		8.517				ND	7
90 Cyclohexanone	55		8.573				ND	
91 1,1,2,2-Tetrachloroethane	83		8.755				ND	
93 trans-1,4-Dichloro-2-butene	53		8.797				ND	U
92 Bromobenzene	156		8.797				ND	
94 1,2,3-Trichloropropane	110		8.825				ND	
95 N-Propylbenzene	120		8.866				ND	
96 2-Chlorotoluene	126		8.964				ND	
97 1,3,5-Trimethylbenzene	105		9.034				ND	
98 4-Chlorotoluene	126		9.090				ND	
99 tert-Butylbenzene	119		9.341				ND	
100 1,2,4-Trimethylbenzene	105		9.397				ND	
101 sec-Butylbenzene	134		9.565				ND	
102 1,3-Dichlorobenzene	146		9.690				ND	
103 4-Isopropyltoluene	119		9.704				ND	
104 1,4-Dichlorobenzene	146		9.788				ND	
105 1,2,3-Trimethylbenzene	105		9.802				ND	
106 n-Butylbenzene	91		10.109				ND	
107 1,2-Dichlorobenzene	146		10.137				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906				ND	
109 1,3,5-Trichlorobenzene	180		11.101				ND	
110 1,2,4-Trichlorobenzene	180		11.730				ND	
111 Hexachlorobutadiene	225		11.869				ND	
112 Naphthalene	128		11.995				ND	
113 1,2,3-Trichlorobenzene	180		12.204				ND	
114 Methyl cyclohexane TIC	1		0.000				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 1-Chlorohexane TIC	1		0.000				ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
118 Pentachloroethane	167		0.000				ND	
119 t-Amyl alcohol	1		0.000				ND	
120 Ethyl acrylate	55		0.000				ND	
121 Tetrahydrothiophene TIC	1		0.000				ND	
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1		0.000				ND	7
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Trihalomethanes, Total	1		0.000				ND	7
S 126 TAH	1				0		0	7
S 127 Total BTEX	1		0.000				ND	7
T 129 Propene TIC	1		1.369				ND	
T 128 Propene oxide TIC	1		1.369				ND	
T 130 1,3-Butadiene TIC	1		1.985				ND	
T 131 2,3-Dichloro-1-propene TIC	1		6.150				ND	
T 132 4-Ethyltoluene TIC	1		9.345				ND	
T 133 Dicyclopentadiene TIC	1		9.670				ND	
T 134 Dichloroacetonitrile TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:13:09

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000571.D

Injection Date: 03-Aug-2023 16:23:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: 280-179478-A-9

Lab Sample ID: 280-179478-9

Worklist Smp#: 29

Client ID: RW-7549P-20230721

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

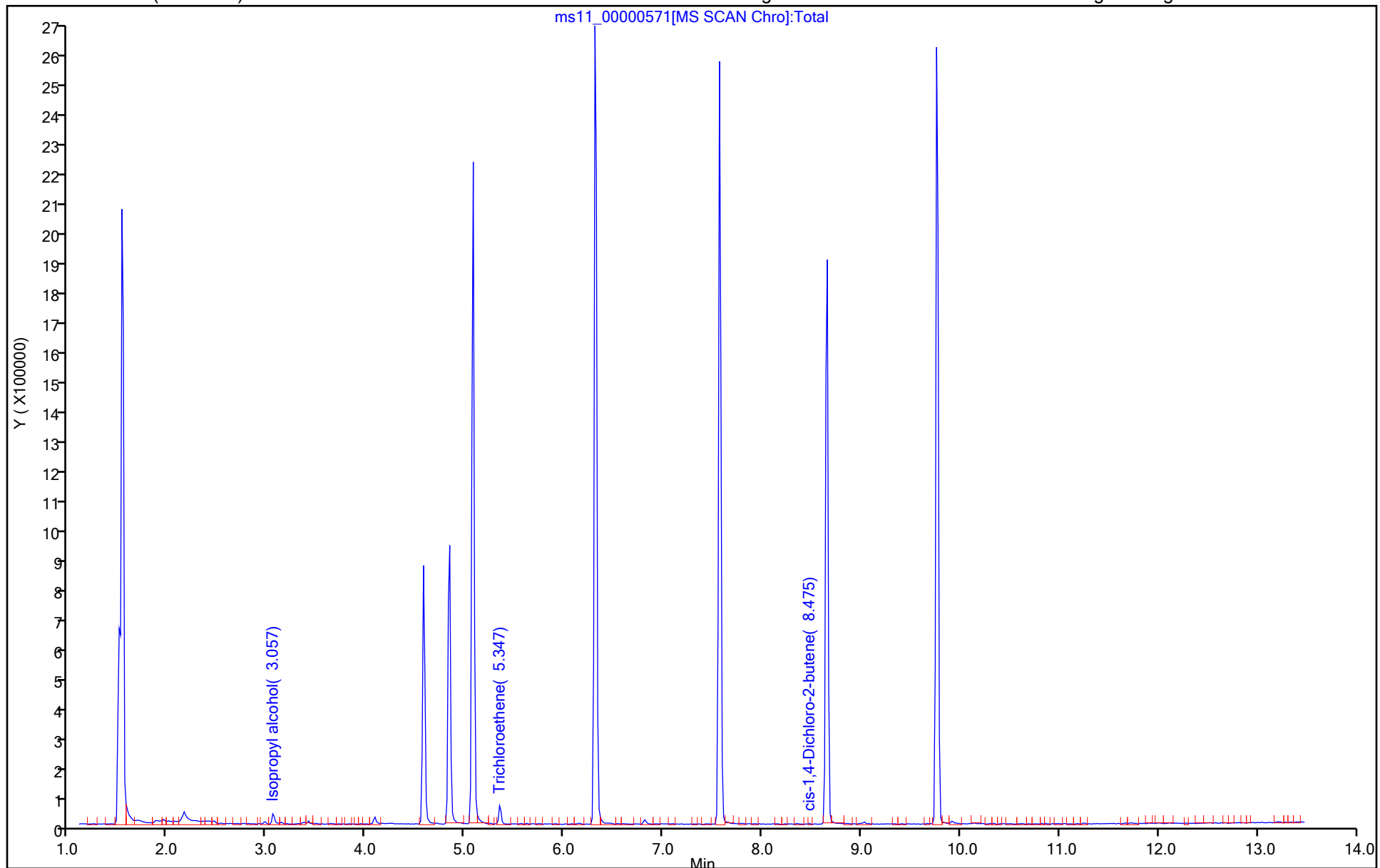
ALS Bottle#: 23

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000571.D
Lims ID: 280-179478-A-9
Client ID: RW-7549P-20230721
Sample Type: Client
Inject. Date: 03-Aug-2023 16:23:30 ALS Bottle#: 23 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-A-9
Misc. Info.: 280-0124144-029
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1613

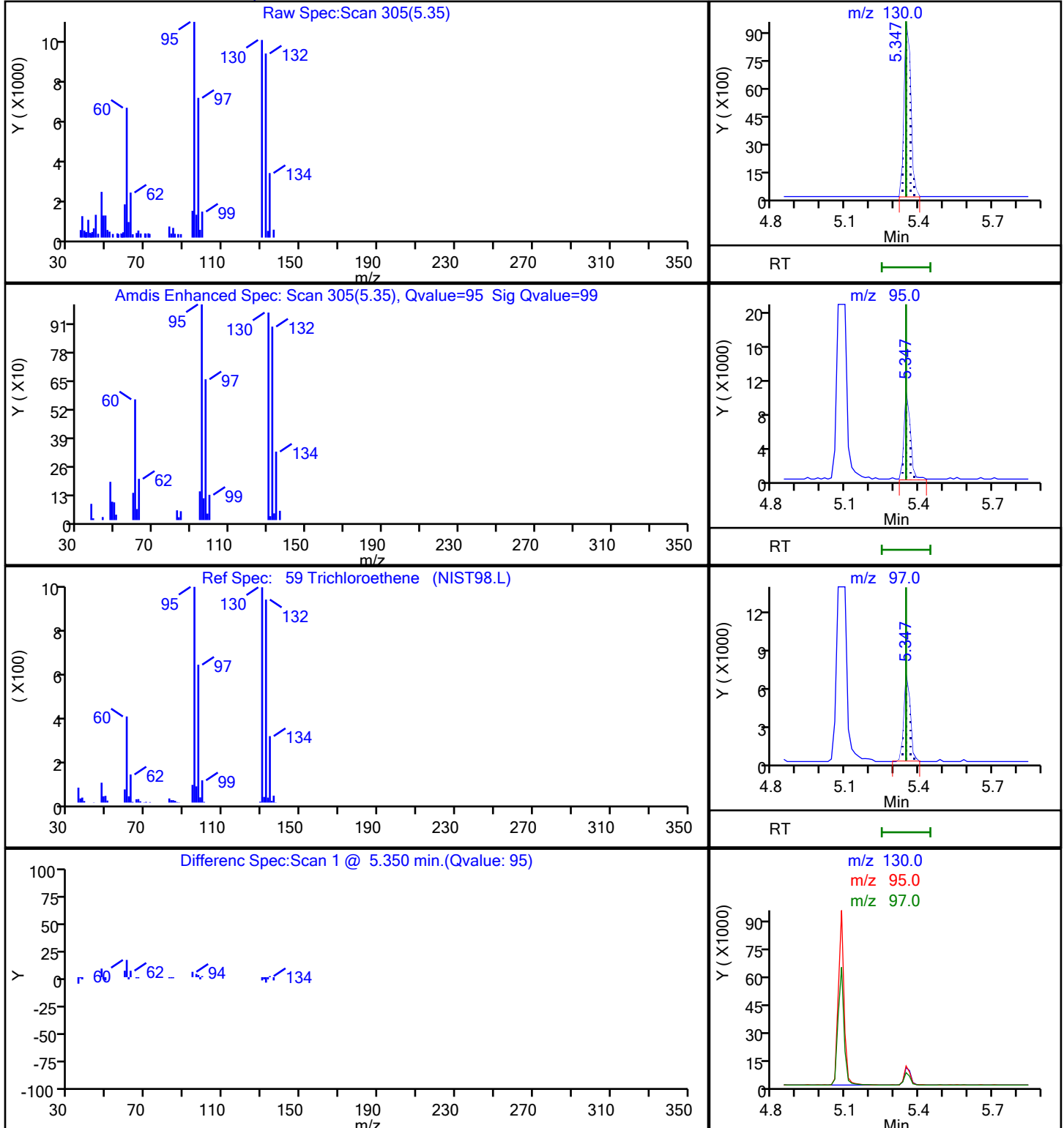
First Level Reviewer: AK2J

Date: 04-Aug-2023 00:08:47

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	48.6	97.17
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.7	107.37
\$ 6 Toluene-d8 (Surr)	50.0	51.2	102.42
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.7	103.42

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000571.D
Injection Date: 03-Aug-2023 16:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-9 Lab Sample ID: 280-179478-9
Client ID: RW-7549P-20230721
Operator ID: MED ALS Bottle#: 23 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

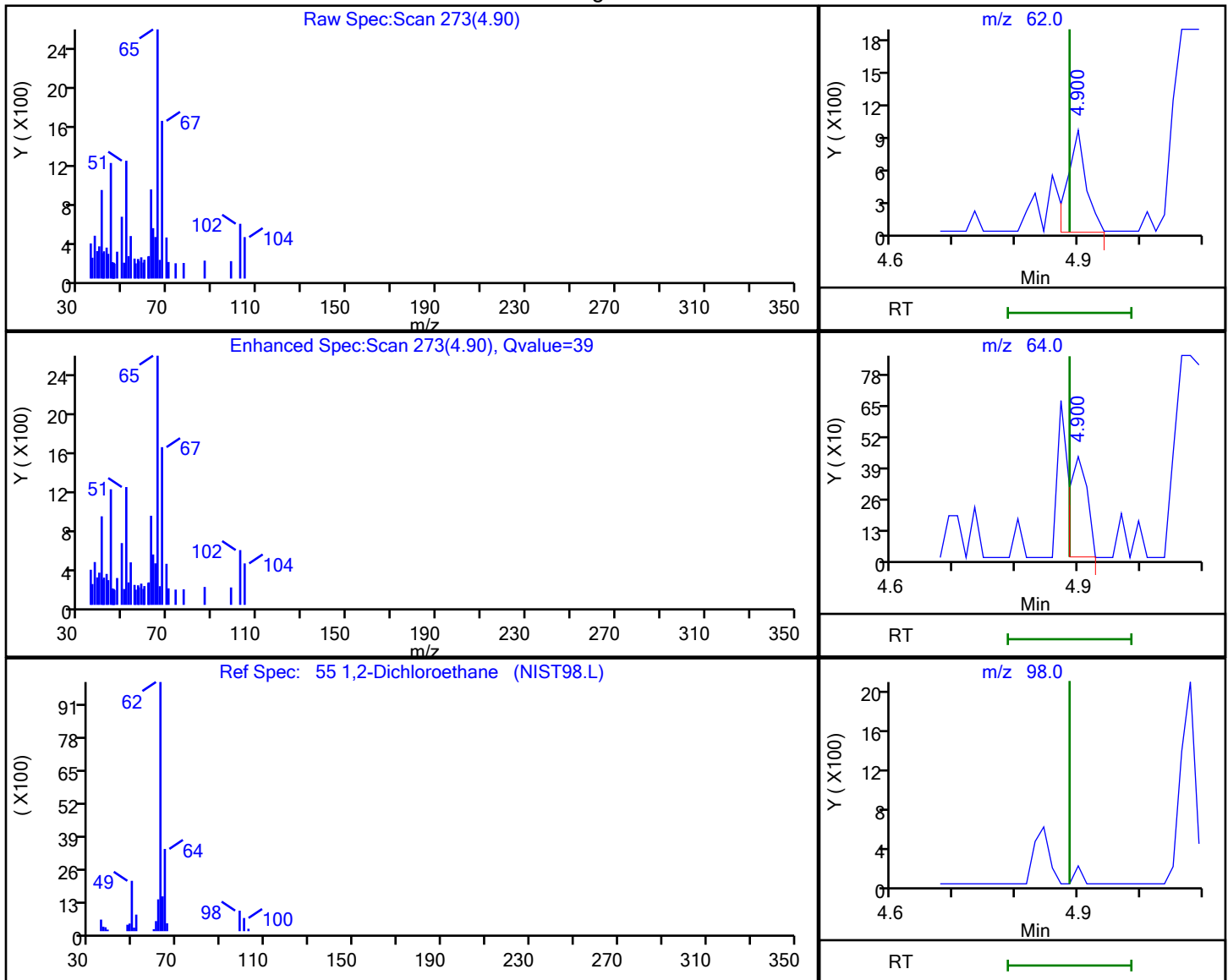
59 Trichloroethene, CAS: 79-01-6

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000571.D
Injection Date: 03-Aug-2023 16:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-9 Lab Sample ID: 280-179478-9
Client ID: RW-7549P-20230721
Operator ID: MED ALS Bottle#: 23 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

55 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.90	62.00	1875	0.145719
4.90	64.00	855	
4.89	98.00	0	

Reviewer: AK2J, 04-Aug-2023 00:08:37 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

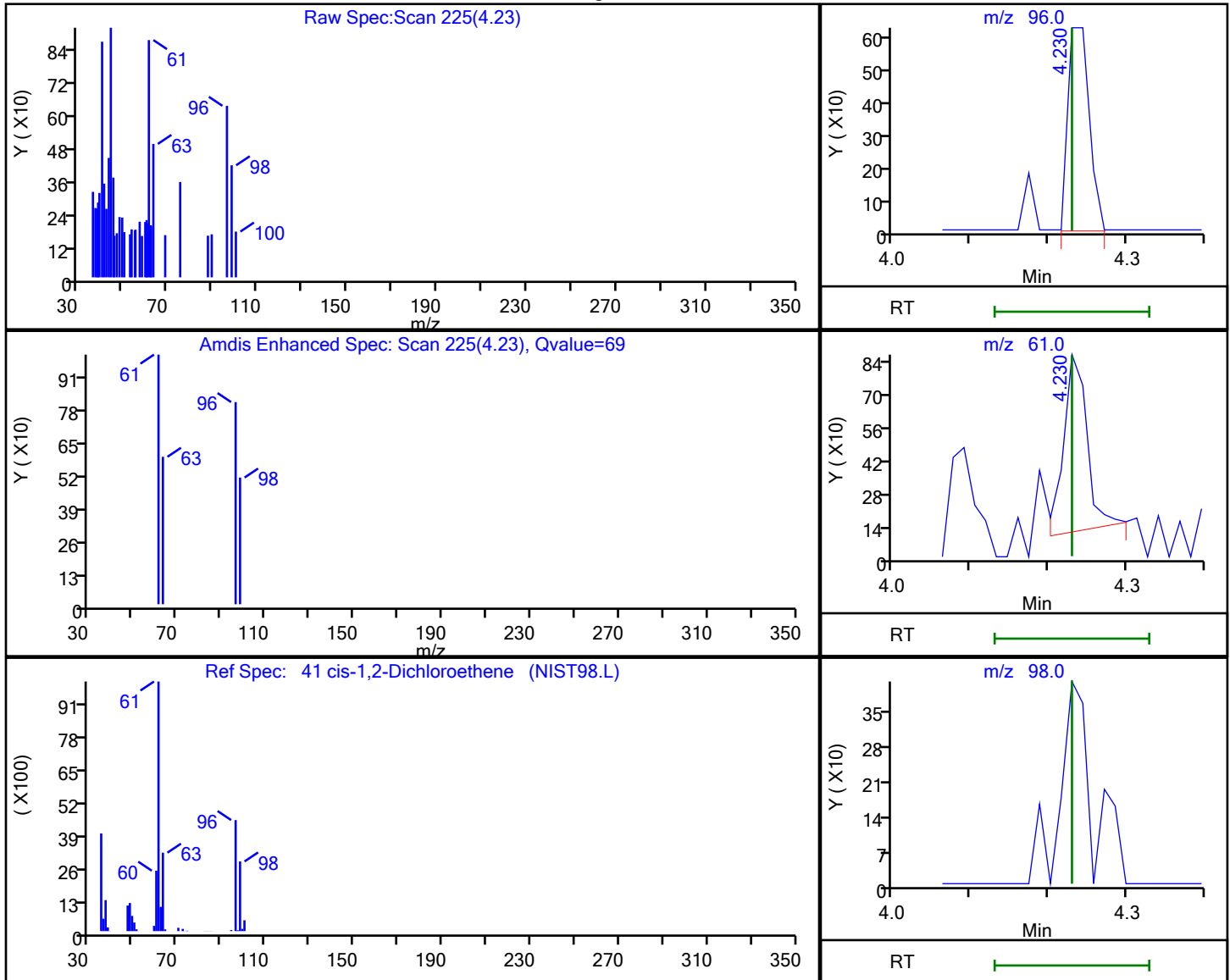
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000571.D
Injection Date: 03-Aug-2023 16:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-9 Lab Sample ID: 280-179478-9
Client ID: RW-7549P-20230721
Operator ID: MED ALS Bottle#: 23 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

41 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



RT	Mass	Response	Amount
4.23	96.00	1203	0.129936
4.23	61.00	1592	
4.23	98.00	0	

Reviewer: AK2J, 04-Aug-2023 00:08:35 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

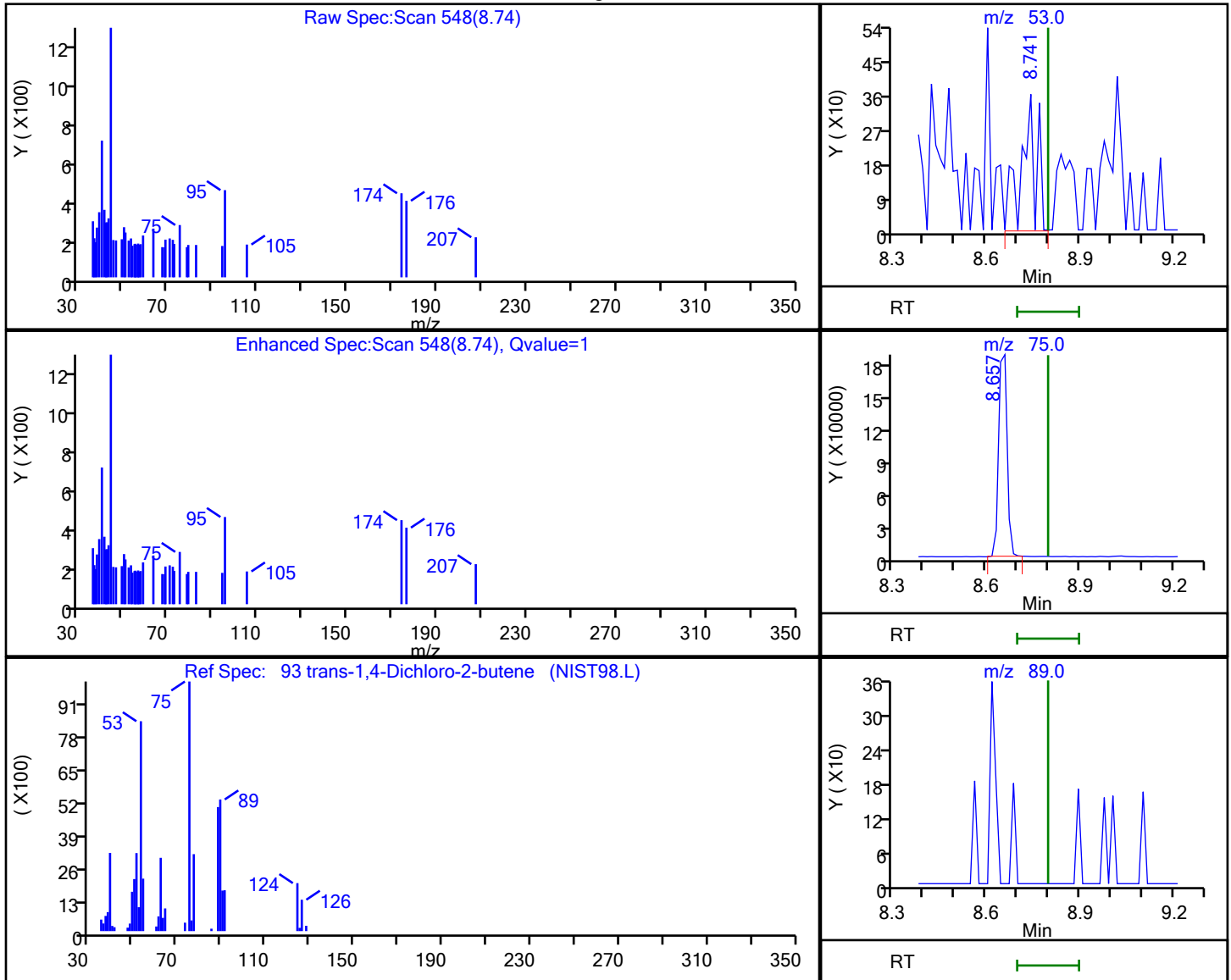
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000571.D
Injection Date: 03-Aug-2023 16:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-9 Lab Sample ID: 280-179478-9
Client ID: RW-7549P-20230721
Operator ID: MED ALS Bottle#: 23 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

93 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
8.74	53.00	1195	0.367139
8.66	75.00	355236	
8.80	89.00	0	

Reviewer: AK2J, 04-Aug-2023 00:08:42 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-4-100-110-20230722</u>	Lab Sample ID: <u>280-179478-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000572.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 11:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 16:45</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-4-100-110-20230722</u>	Lab Sample ID: <u>280-179478-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000572.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 11:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 16:45</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	1.1		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: PA-4-100-110-20230722 Lab Sample ID: 280-179478-10
Matrix: Water Lab File ID: ms11_00000572.D
Analysis Method: 8260D Date Collected: 07/22/2023 11:00
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 16:45
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-127
460-00-4	4-Bromofluorobenzene (Surr)	104		78-120
2037-26-5	Toluene-d8 (Surr)	104		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000572.D
 Lims ID: 280-179478-A-10
 Client ID: PA-4-100-110-20230722
 Sample Type: Client
 Inject. Date: 03-Aug-2023 16:45:30 ALS Bottle#: 24 Worklist Smp#: 30
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-10
 Misc. Info.: 280-0124144-030
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:09:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1604023	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	418307	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.774	9.760	0.014	97	727042	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	443585	49.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	621822	53.8	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1754697	52.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	92	652225	52.2	
\$ 8 BFB	95	8.657	8.643	0.014	92	657293	NR	
9 Dichlorodifluoromethane	85		1.702				ND	
10 Chloromethane	50		1.883				ND	
11 Vinyl chloride	62		1.981				ND	
12 Bromomethane	94		2.246				ND	
13 Chloroethane	64		2.344				ND	
14 Dichlorofluoromethane	67		2.526				ND	
15 Trichlorofluoromethane	101		2.554				ND	
16 Ethanol	45		2.679				ND	
17 Ethyl ether	59		2.763				ND	
18 Acrolein	56		2.875				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.959				ND	
19 1,1-Dichloroethene	96		2.959				ND	
21 Acetone	43		2.973				ND	7
22 Isopropyl alcohol	45		3.056				ND	
23 Iodomethane	142		3.084				ND	
24 Carbon disulfide	76		3.140				ND	7
25 Acetonitrile	41		3.182				ND	
26 Methyl acetate	43		3.196				ND	
27 3-Chloro-1-propene	41		3.224				ND	
28 Methylene Chloride	84		3.308				ND	
29 2-Methyl-2-propanol	59		3.364				ND	
30 Acrylonitrile	53		3.476				ND	
31 Methyl tert-butyl ether	73		3.489				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.517				ND	
33 Hexane	57		3.699				ND	
34 Vinyl acetate	43		3.797				ND	
36 Isopropyl ether	87		3.825				ND	
35 1,1-Dichloroethane	63		3.825				ND	
37 2-Chloro-1,3-butadiene	53		3.867				ND	
38 Tert-butyl ethyl ether	59		4.076				ND	
39 2-Butanone (MEK)	43		4.202				ND	
40 Ethyl acetate	43		4.216				ND	
41 cis-1,2-Dichloroethene	96		4.230				ND	
43 Propionitrile	54		4.244				ND	
42 2,2-Dichloropropane	77		4.244				ND	
44 sec-Butyl Alcohol	45		4.313				ND	
45 Methacrylonitrile	41		4.355				ND	
46 Chlorobromomethane	128		4.411				ND	
47 Tetrahydrofuran	42		4.411				ND	
48 Chloroform	83		4.467				ND	
49 1,1,1-Trichloroethane	97		4.607				ND	
50 Cyclohexane	56		4.663				ND	
51 1,1-Dichloropropene	75		4.719				ND	
52 Carbon tetrachloride	117		4.719				ND	
53 Isobutyl alcohol	43		4.732				ND	U
54 Benzene	78		4.872				ND	
55 1,2-Dichloroethane	62		4.886				ND	U
56 Tert-amyl methyl ether	73		4.928				ND	
57 n-Heptane	43		5.040				ND	
58 n-Butanol	56		5.207				ND	
59 Trichloroethene	130	5.347	5.347	0.000	95	10281	1.15	
60 2-Pentanone	43		5.445				ND	
63 Methyl methacrylate	100		5.542				ND	
61 Methylcyclohexane	55		5.543				ND	
62 1,2-Dichloropropane	63		5.543				ND	
64 1,4-Dioxane	88		5.598				ND	
65 Dibromomethane	93		5.626				ND	
66 Dichlorobromomethane	83		5.738				ND	
67 2-Nitropropane	41		5.892				ND	
68 2-Chloroethyl vinyl ether	63		5.934				ND	
69 cis-1,3-Dichloropropene	75		6.087				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185				ND	
71 Toluene	91		6.367				ND	
72 trans-1,3-Dichloropropene	75		6.534				ND	
73 Ethyl methacrylate	69		6.562				ND	
74 1,1,2-Trichloroethane	97		6.716				ND	
75 Tetrachloroethene	164		6.813				ND	
76 1,3-Dichloropropane	76		6.855				ND	
77 2-Hexanone	43		6.869				ND	
78 Chlorodibromomethane	129		7.051				ND	
79 Ethylene Dibromide	107		7.163				ND	
80 1-Chlorohexane	91		7.554				ND	7
81 Chlorobenzene	112		7.596				ND	
82 1,1,1,2-Tetrachloroethane	131		7.665				ND	
83 Ethylbenzene	106		7.665				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 m-Xylene & p-Xylene	91		7.791				ND	
85 o-Xylene	106		8.140				ND	
86 Styrene	104		8.154				ND	
87 Bromoform	173		8.336				ND	
88 Isopropylbenzene	105		8.475				ND	
89 cis-1,4-Dichloro-2-butene	53	8.489	8.517	-0.028	0	1726	0.4818	
90 Cyclohexanone	55		8.573				ND	
91 1,1,2,2-Tetrachloroethane	83		8.755				ND	
93 trans-1,4-Dichloro-2-butene	53		8.797				ND	U
92 Bromobenzene	156		8.797				ND	
94 1,2,3-Trichloropropane	110		8.825				ND	
95 N-Propylbenzene	120		8.866				ND	
96 2-Chlorotoluene	126		8.964				ND	
97 1,3,5-Trimethylbenzene	105		9.034				ND	
98 4-Chlorotoluene	126		9.090				ND	
99 tert-Butylbenzene	119		9.341				ND	
100 1,2,4-Trimethylbenzene	105		9.397				ND	
101 sec-Butylbenzene	134		9.565				ND	
102 1,3-Dichlorobenzene	146		9.690				ND	7
103 4-Isopropyltoluene	119		9.704				ND	
104 1,4-Dichlorobenzene	146		9.788				ND	7
105 1,2,3-Trimethylbenzene	105		9.802				ND	
106 n-Butylbenzene	91		10.109				ND	
107 1,2-Dichlorobenzene	146		10.137				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906				ND	
109 1,3,5-Trichlorobenzene	180		11.101				ND	
110 1,2,4-Trichlorobenzene	180		11.730				ND	
111 Hexachlorobutadiene	225		11.869				ND	
112 Naphthalene	128		11.995				ND	
113 1,2,3-Trichlorobenzene	180		12.204				ND	
114 Methyl cyclohexane TIC	1		0.000				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 1-Chlorohexane TIC	1		0.000				ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
118 Pentachloroethane	167		0.000				ND	
119 t-Amyl alcohol	1		0.000				ND	
120 Ethyl acrylate	55		0.000				ND	
121 Tetrahydrothiophene TIC	1		0.000				ND	
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1		0.000				ND	7
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Trihalomethanes, Total	1		0.000				ND	7
S 126 TAH	1				0		0	7
S 127 Total BTEX	1		0.000				ND	7
T 129 Propene TIC	1		1.369				ND	
T 128 Propene oxide TIC	1		1.369				ND	
T 130 1,3-Butadiene TIC	1		1.985				ND	
T 131 2,3-Dichloro-1-propene TIC	1		6.150				ND	
T 132 4-Ethyltoluene TIC	1		9.345				ND	
T 133 Dicyclopentadiene TIC	1		9.670				ND	
T 134 Dichloroacetonitrile TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:13:11

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000572.D

Injection Date: 03-Aug-2023 16:45:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: 280-179478-A-10

Lab Sample ID: 280-179478-10

Worklist Smp#: 30

Client ID: PA-4-100-110-20230722

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

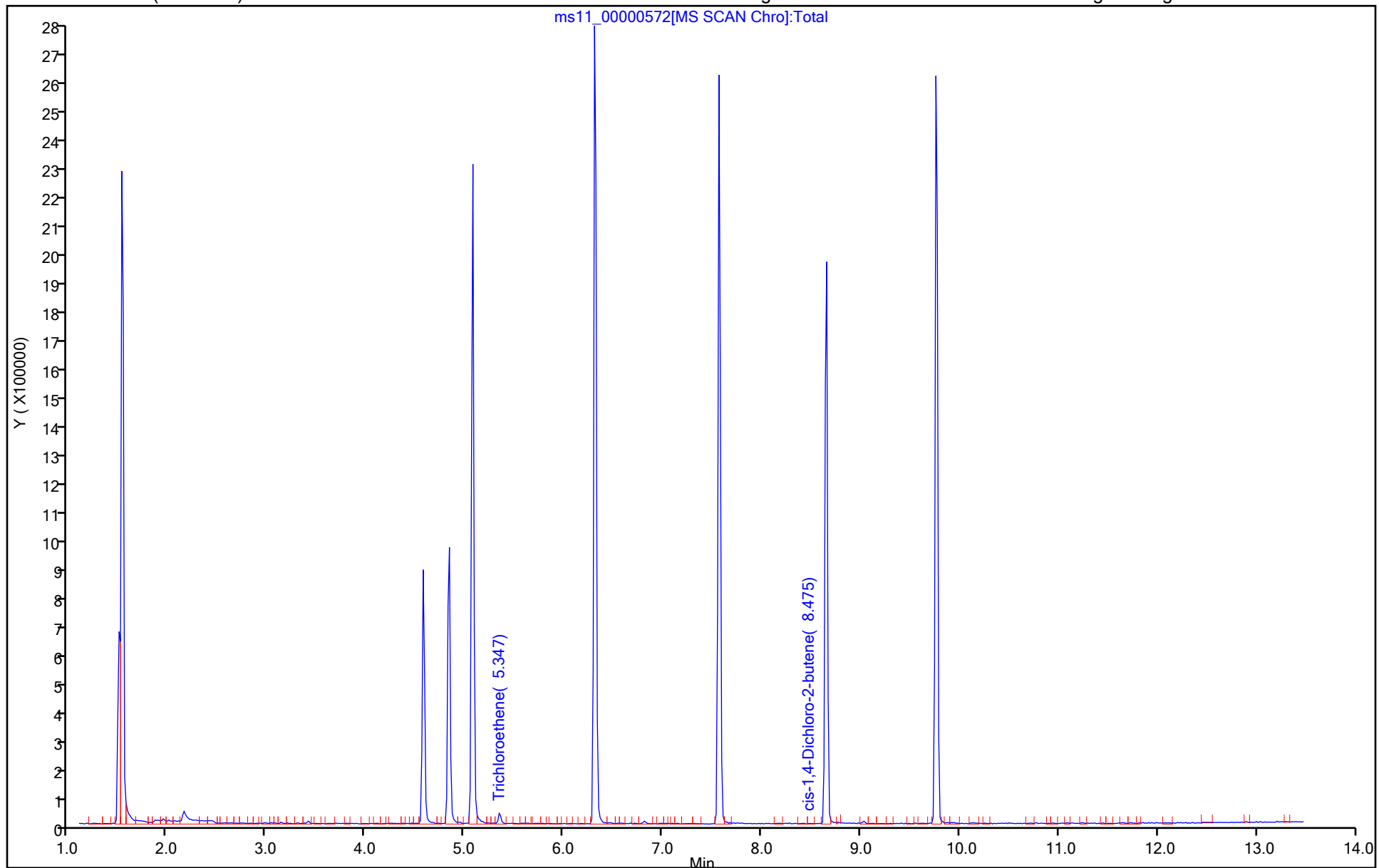
ALS Bottle#: 24

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000572.D
Lims ID: 280-179478-A-10
Client ID: PA-4-100-110-20230722
Sample Type: Client
Inject. Date: 03-Aug-2023 16:45:30 ALS Bottle#: 24 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-A-10
Misc. Info.: 280-0124144-030
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1613

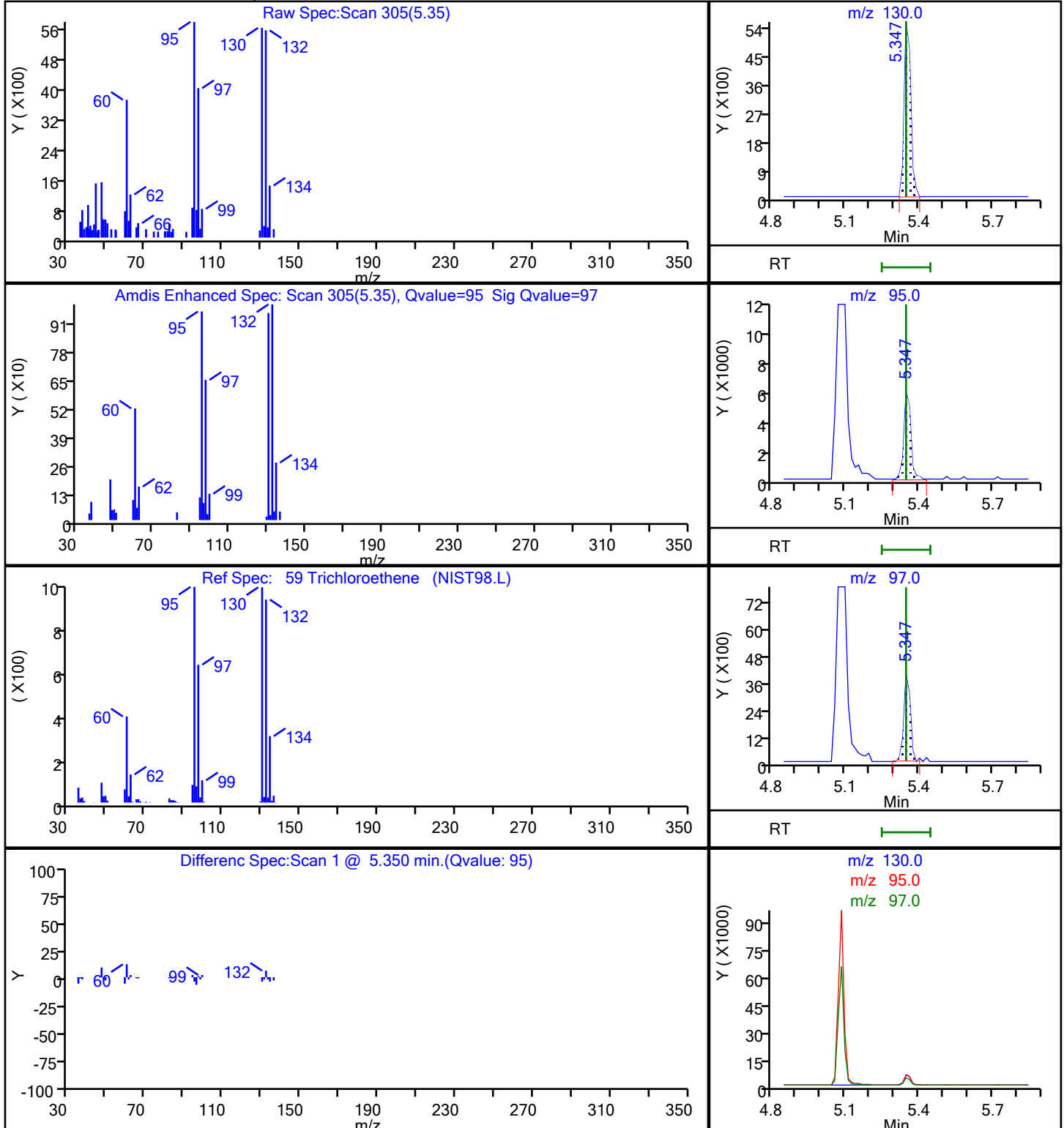
First Level Reviewer: AK2J

Date: 04-Aug-2023 00:09:11

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.5	99.03
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.8	107.70
\$ 6 Toluene-d8 (Surr)	50.0	52.0	104.02
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.2	104.30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000572.D
Injection Date: 03-Aug-2023 16:45:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-10 Lab Sample ID: 280-179478-10
Client ID: PA-4-100-110-20230722
Operator ID: MED ALS Bottle#: 24 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector MS SCAN

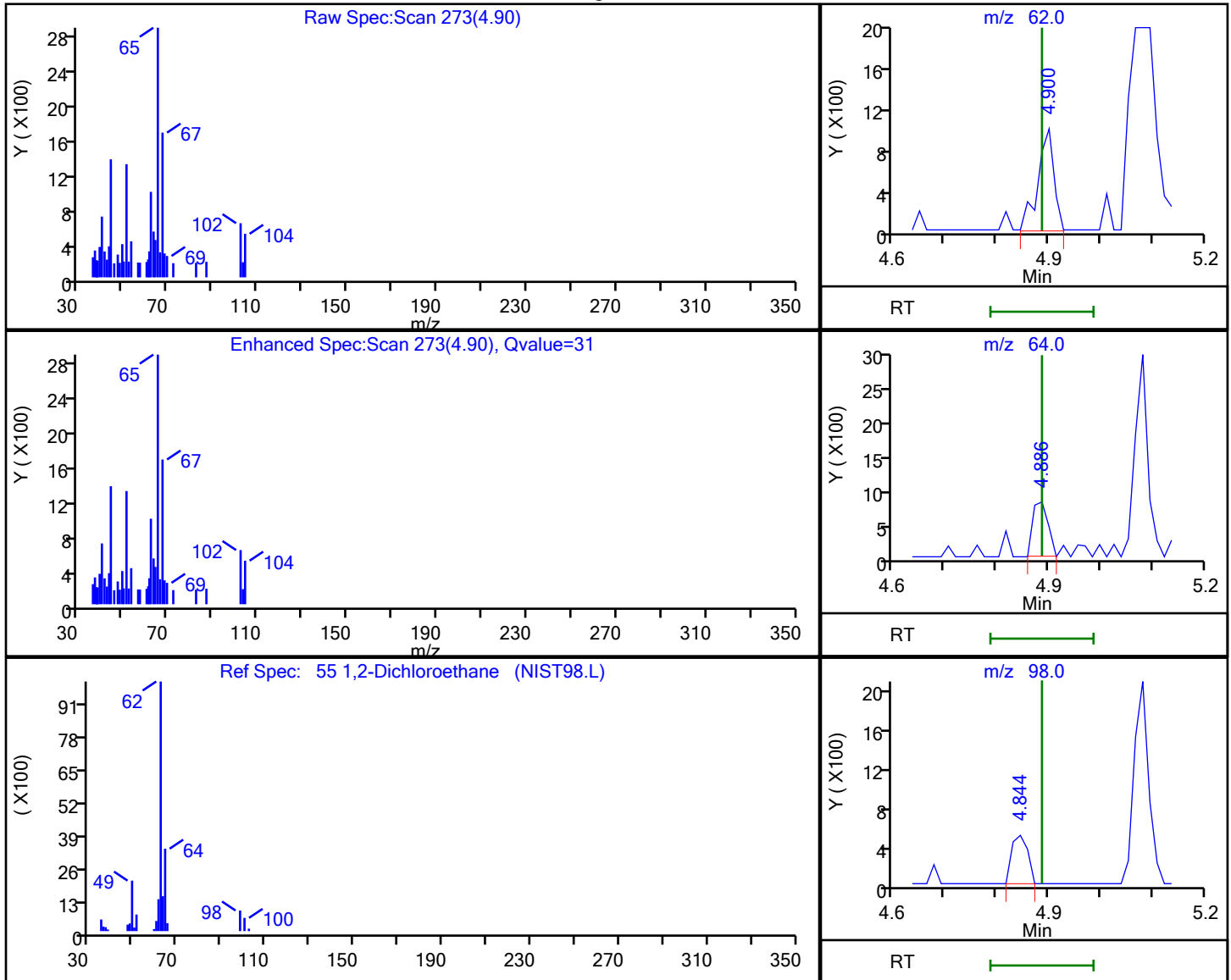
59 Trichloroethene, CAS: 79-01-6

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000572.D
Injection Date: 03-Aug-2023 16:45:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-10 Lab Sample ID: 280-179478-10
Client ID: PA-4-100-110-20230722
Operator ID: MED ALS Bottle#: 24 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

55 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.90	62.00	2139	0.165007
4.89	64.00	1663	
4.84	98.00	1060	

Reviewer: AK2J, 04-Aug-2023 00:08:57 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

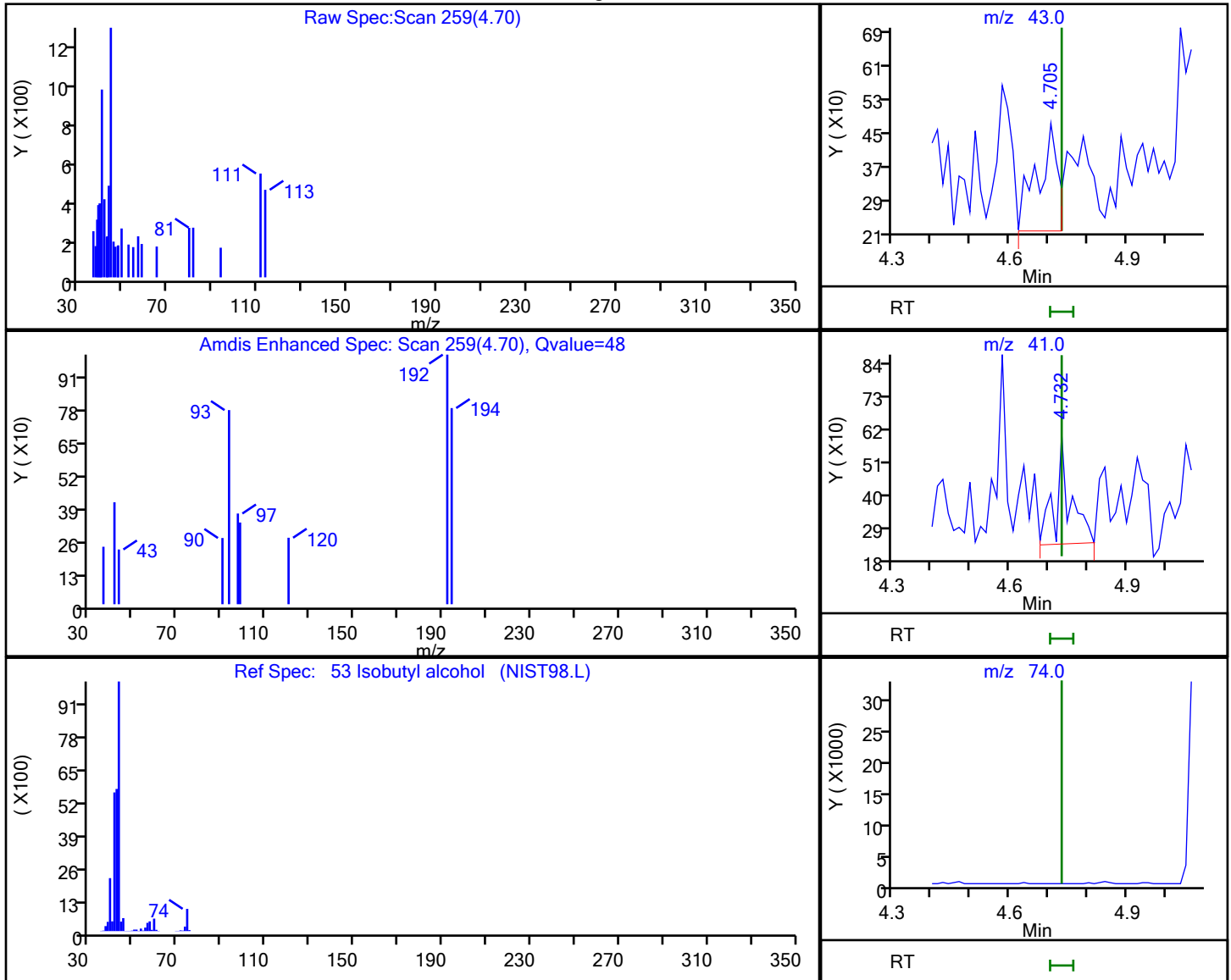
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000572.D
Injection Date: 03-Aug-2023 16:45:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-10 Lab Sample ID: 280-179478-10
Client ID: PA-4-100-110-20230722
Operator ID: MED ALS Bottle#: 24 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.70	43.00	927	1.948454
4.73	41.00	983	
4.73	74.00	0	

Reviewer: AK2J, 04-Aug-2023 00:08:54 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

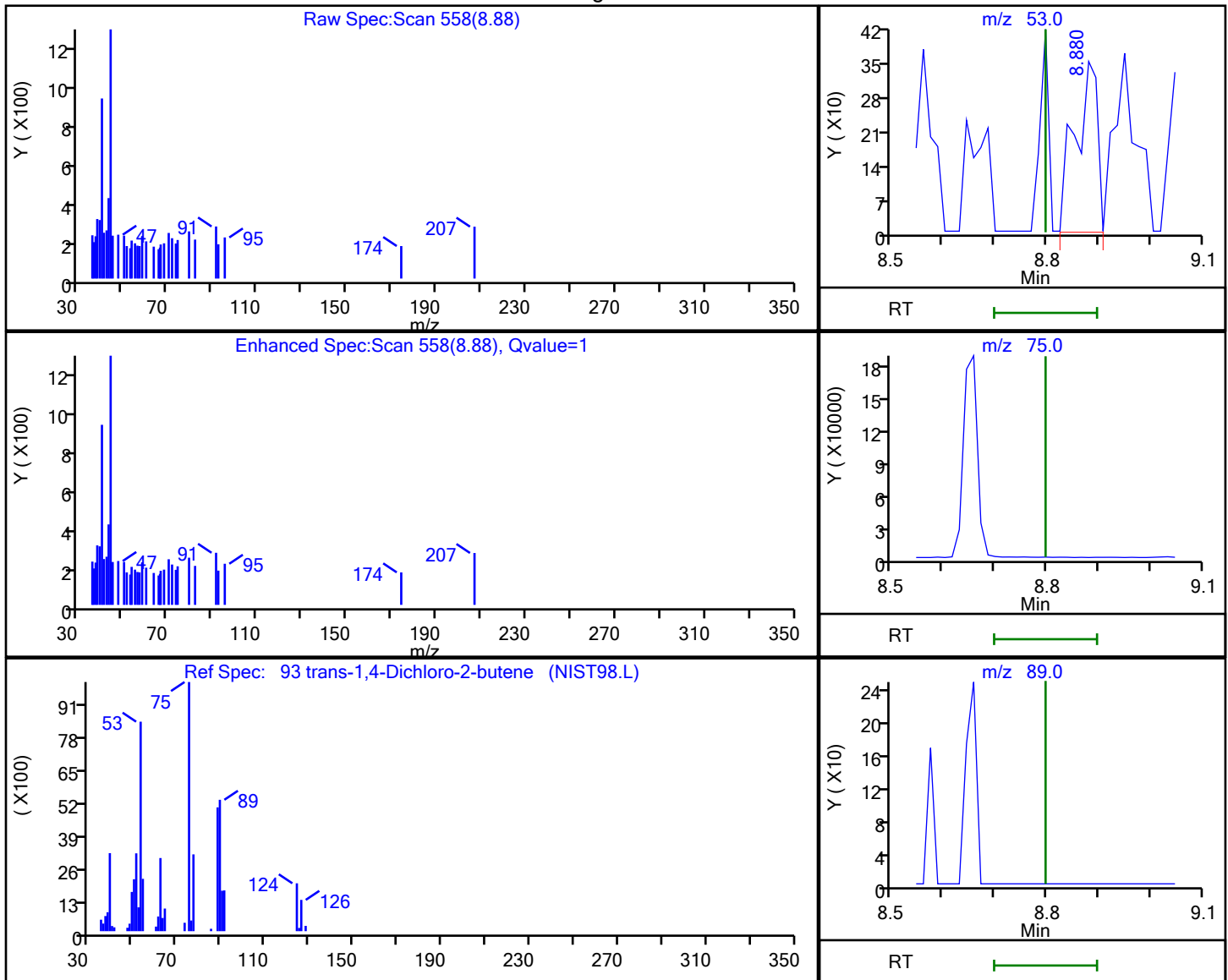
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000572.D
Injection Date: 03-Aug-2023 16:45:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-10 Lab Sample ID: 280-179478-10
Client ID: PA-4-100-110-20230722
Operator ID: MED ALS Bottle#: 24 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

93 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
8.88	53.00	1042	0.319096
8.80	75.00	0	
8.80	89.00	0	

Reviewer: AK2J, 04-Aug-2023 00:09:04 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>TB-02-20230723</u>	Lab Sample ID: <u>280-179478-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6854.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/23/2023 21:00</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 19:31</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621894</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND	*1	2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>TB-02-20230723</u>	Lab Sample ID: <u>280-179478-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6854.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/23/2023 21:00</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/04/2023 19:31</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25(mm)</u>
Purge Volume: <u>5.0(mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621894</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND	*1	3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: TB-02-20230723 Lab Sample ID: 280-179478-11
Matrix: Water Lab File ID: R_6854.D
Analysis Method: 8260D Date Collected: 07/23/2023 21:00
Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2023 19:31
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621894 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	104		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6854.D
 Lims ID: 280-179478-B-11
 Client ID: TB-02-20230723
 Sample Type: Client
 Inject. Date: 04-Aug-2023 19:31:30 ALS Bottle#: 9 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-B-11
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 11:30:42 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

First Level Reviewer: J6NB

Date: 05-Aug-2023 10:37:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.811	0.001	98	1614272	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	396466	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.538	0.001	98	587492	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	439314	51.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.572	4.575	-0.003	0	554874	54.7	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1724859	50.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	581887	51.2	
\$ 8 BFB	95	8.414	8.414	0.000	83	581887	NR	
9 Dichlorodifluoromethane	85		1.550				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59		2.547				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.724				ND	
22 1,1-Dichloroethene	96		2.724				ND	
23 Acetone	43		2.746				ND	
25 Iodomethane	142		2.840				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.945				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.252				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.454				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	
40 2-Chloro-1,3-butadiene	53		3.627				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.983				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.155				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.339				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.459				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	
64 n-Butanol	56		4.969				ND	
65 Trichloroethene	95		5.085				ND	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.333				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.483				ND	
73 2-Nitropropane	41		5.647				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.315				ND	
80 1,1,2-Trichloroethane	97		6.465				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.541				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.915				ND	
94 Bromoform	173		8.095				ND	
95 Isopropylbenzene	105		8.242				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.571				ND	
101 1,2,3-Trichloropropane	110		8.594				ND	
102 N-Propylbenzene	120		8.639				ND	
103 2-Chlorotoluene	126		8.733				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
104 1,3,5-Trimethylbenzene	105		8.811				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.119				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.336				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.664				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 11:30:53

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6854.D

Injection Date: 04-Aug-2023 19:31:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179478-B-11

Lab Sample ID: 280-179478-11

Worklist Smp#: 16

Client ID: TB-02-20230723

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

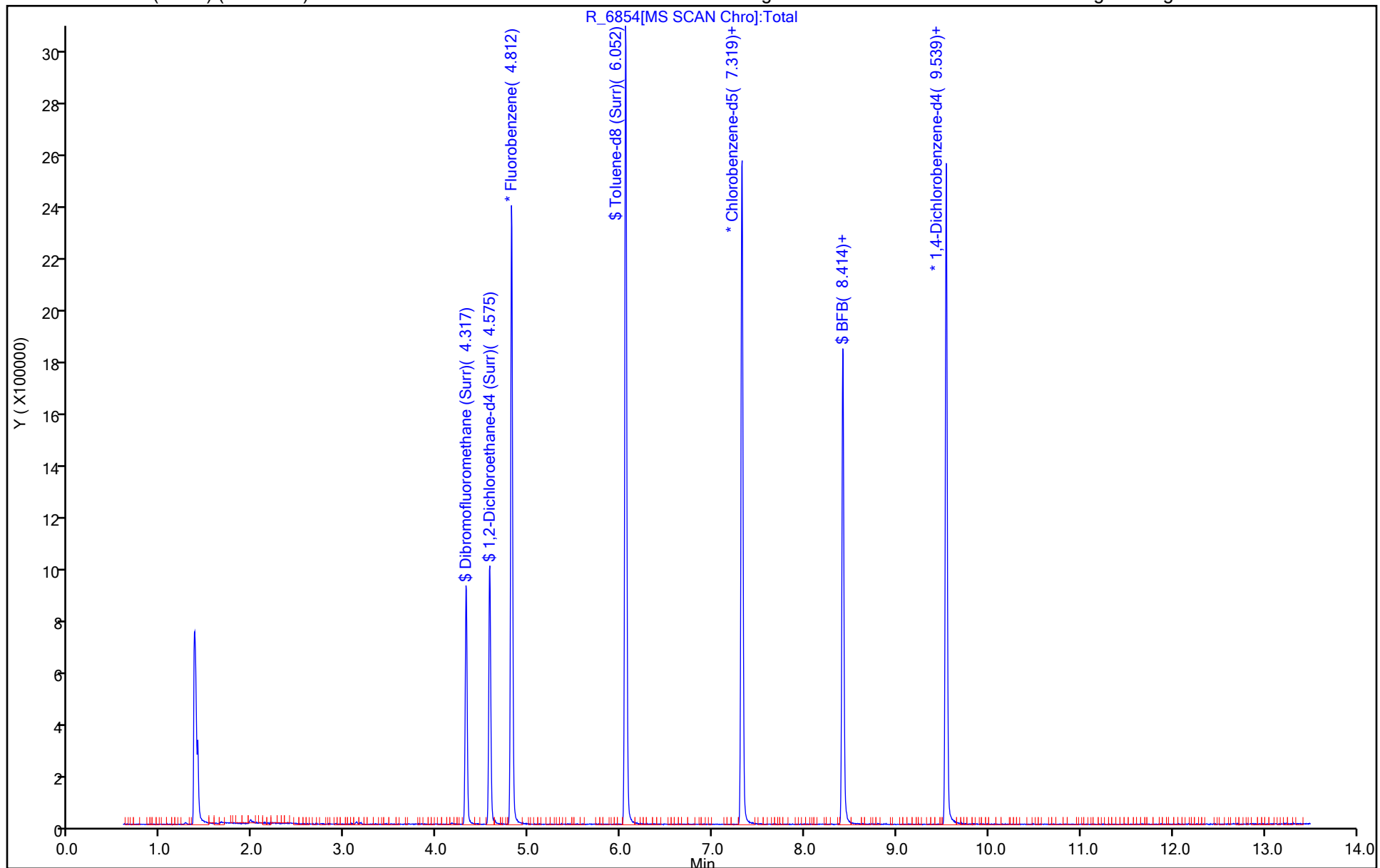
ALS Bottle#: 9

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6854.D
Lims ID: 280-179478-B-11
Client ID: TB-02-20230723
Sample Type: Client
Inject. Date: 04-Aug-2023 19:31:30 ALS Bottle#: 9 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-B-11
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 05-Aug-2023 11:30:42 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: J6NB

Date: 05-Aug-2023 10:37:03

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	51.8	103.58
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	54.7	109.44
\$ 6 Toluene-d8 (Surr)	50.0	50.5	101.02
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.2	102.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-8-77-87-20230723</u>	Lab Sample ID: <u>280-179478-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6866.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/23/2023 11:10</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 23:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621894</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND	*1	2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-8-77-87-20230723</u>	Lab Sample ID: <u>280-179478-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6866.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/23/2023 11:10</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/04/2023 23:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25(mm)</u>
Purge Volume: <u>5.0(mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621894</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND	*1	3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND	*1	3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: PA-8-77-87-20230723 Lab Sample ID: 280-179478-12
Matrix: Water Lab File ID: R_6866.D
Analysis Method: 8260D Date Collected: 07/23/2023 11:10
Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2023 23:41
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621894 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	107		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6866.D
 Lims ID: 280-179478-A-12
 Client ID: PA-8-77-87-20230723
 Sample Type: Client
 Inject. Date: 04-Aug-2023 23:41:30 ALS Bottle#: 20 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-12
 Misc. Info.: 280-0124210-028
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 11:30:42 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

First Level Reviewer: J6NB

Date: 05-Aug-2023 11:19:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.811	0.001	97	1605343	50.0	
* 2 Chlorobenzene-d5	119	7.320	7.316	0.004	89	395368	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.538	0.001	97	598096	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	91	450791	53.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.576	4.575	0.001	0	564485	56.0	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1723635	50.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	85	592982	51.2	
\$ 8 BFB	95	8.414	8.414	0.000	83	592982	NR	
9 Dichlorodifluoromethane	85		1.550				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.805				ND	
13 Bromomethane	94		2.067				ND	
14 Chloroethane	64		2.154				ND	
16 Trichlorofluoromethane	101		2.345				ND	
18 Ethyl ether	59		2.547				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.724				ND	
22 1,1-Dichloroethene	96		2.724				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.840				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.945				ND	
28 Methyl acetate	43		2.963				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.076				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.252				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.454				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.574				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.627				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43	3.968	3.968	0.000	1	1760	0.2889	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.983				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.144				ND	
51 Tetrahydrofuran	42		4.155				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.339				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.452				ND	
56 Carbon tetrachloride	117		4.459				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	
64 n-Butanol	56		4.969				ND	
65 Trichloroethene	95	5.085	5.085	0.000	87	1556	0.2040	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.333				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.483				ND	
73 2-Nitropropane	41		5.647				ND	
74 2-Chloroethyl vinyl ether	63		5.689				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.292				ND	
79 Ethyl methacrylate	69		6.315				ND	
80 1,1,2-Trichloroethane	97		6.465				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.914				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.421				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.541				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.915				ND	
94 Bromoform	173		8.095				ND	
95 Isopropylbenzene	105		8.242				ND	
97 Cyclohexanone	55		8.335				ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.556				ND	
100 trans-1,4-Dichloro-2-butene	53		8.571				ND	
101 1,2,3-Trichloropropane	110		8.594				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.811				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.119				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.336				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.895				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.664				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.009				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 11:31:12

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6866.D

Injection Date: 04-Aug-2023 23:41:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179478-A-12

Lab Sample ID: 280-179478-12

Worklist Smp#: 28

Client ID: PA-8-77-87-20230723

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

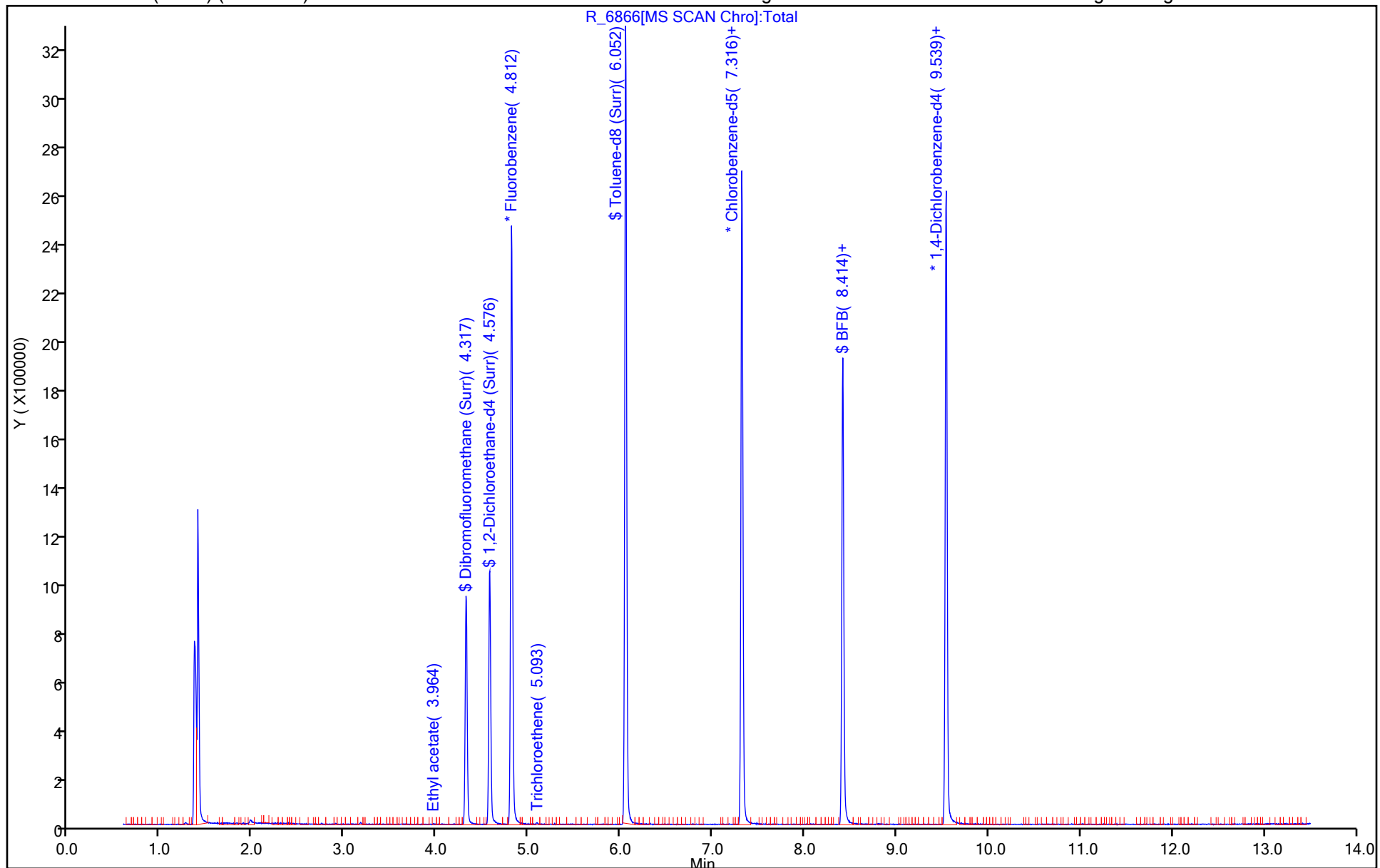
ALS Bottle#: 20

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6866.D
Lims ID: 280-179478-A-12
Client ID: PA-8-77-87-20230723
Sample Type: Client
Inject. Date: 04-Aug-2023 23:41:30 ALS Bottle#: 20 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-A-12
Misc. Info.: 280-0124210-028
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 05-Aug-2023 11:30:42 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: J6NB

Date: 05-Aug-2023 11:19:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	53.4	106.88
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	56.0	111.96
\$ 6 Toluene-d8 (Surr)	50.0	50.6	101.23
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.2	102.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-116S-20230723</u>	Lab Sample ID: <u>280-179478-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS1_2896.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/23/2023 13:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/05/2023 01:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621922</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	0.52	J	1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-116S-20230723</u>	Lab Sample ID: <u>280-179478-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS1_2896.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/23/2023 13:55</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/05/2023 01:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621922</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	2.0		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	14		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: MW-116S-20230723 Lab Sample ID: 280-179478-13
Matrix: Water Lab File ID: MS1_2896.D
Analysis Method: 8260D Date Collected: 07/23/2023 13:55
Sample wt/vol: 5 (mL) Date Analyzed: 08/05/2023 01:41
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621922 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	99		80-125
1868-53-7	Dibromofluoromethane (Surr)	104		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2896.D
 Lims ID: 280-179478-B-13
 Client ID: MW-116S-20230723
 Sample Type: Client
 Inject. Date: 05-Aug-2023 01:41:30 ALS Bottle#: 21 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-B-13
 Misc. Info.: 280-0124217-026
 Operator ID: bj Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 07-Aug-2023 07:10:20 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1607

First Level Reviewer: AF7X

Date: 07-Aug-2023 07:01:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1358343	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	349519	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.045	0.014	98	528747	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	348901	51.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.752	0.014	0	450255	53.2	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1416957	49.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	84	541899	51.4	
\$ 8 BFB	95	9.900	9.900	0.000	81	541899	NR	
9 Dichlorodifluoromethane	85		1.814				ND	
10 Chloromethane	50		2.023				ND	
11 Vinyl chloride	62		2.149				ND	
12 Ethylene oxide	43		2.260				ND	7
13 Bromomethane	94		2.470				ND	
14 Chloroethane	64		2.610				ND	
15 Dichlorofluoromethane	67		2.847				ND	
16 Trichlorofluoromethane	101		2.889				ND	
17 Ethanol	45		3.084				ND	
18 Ethyl ether	59	3.182	3.168	0.014	92	1935	0.3922	
19 Propene oxide	58		3.238				ND	
20 Acrolein	56		3.322				ND	
22 1,1-Dichloroethene	96		3.406				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151		3.420				ND	
23 Acetone	43		3.462				ND	
24 Iodomethane	142		3.559				ND	
25 Isopropyl alcohol	45		3.587				ND	
26 Carbon disulfide	76		3.629				ND	
27 Acetonitrile	41		3.727				ND	U
28 Methyl acetate	43		3.755				ND	
29 3-Chloro-1-propene	41		3.769				ND	7
30 Methylene Chloride	84		3.895				ND	
31 2-Methyl-2-propanol	59		3.978				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 Acrylonitrile	53		4.104				ND	
33 Methyl tert-butyl ether	73		4.132				ND	
34 trans-1,2-Dichloroethene	96		4.132				ND	
35 Chlorotrifluoroethene	116		4.248				ND	
36 Hexane	57		4.383				ND	
37 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.472				ND	
38 Vinyl acetate	43		4.523				ND	
39 1,1-Dichloroethane	63		4.537				ND	
40 Isopropyl ether	87		4.551				ND	
41 2-Chloro-1,3-butadiene	53		4.593				ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		4.737				ND	
43 Tert-butyl ethyl ether	59		4.872				ND	
44 2-Butanone (MEK)	43		5.012				ND	
46 2,2-Dichloropropane	77		5.040				ND	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	79	5910	0.5207	
47 Ethyl acetate	43		5.040				ND	7
48 Propionitrile	54		5.082				ND	
49 sec-Butyl Alcohol	45		5.165				ND	
50 Methacrylonitrile	41		5.207				ND	
52 Tetrahydrofuran	42		5.249				ND	
51 Chlorobromomethane	128		5.249				ND	
53 Chloroform	83		5.319				ND	
54 1,1,1-Trichloroethane	97		5.473				ND	
55 1,2-Dichloro-1,1,2-trifluoroetha	117		5.505				ND	
56 1,1,1-Trifluoro-2,2-dichloroetha	83		5.533				ND	
57 Cyclohexane	56		5.543				ND	
58 1,1-Dichloropropene	75		5.612				ND	
59 Carbon tetrachloride	117		5.612				ND	
60 Isobutyl alcohol	41		5.668				ND	U
61 Benzene	78		5.780				ND	
62 1,2-Dichloroethane	62		5.822				ND	
63 Tert-amyl methyl ether	73		5.878				ND	
64 n-Heptane	43		6.003				ND	U
65 n-Butanol	56		6.227				ND	
66 Trichloroethene	95	6.353	6.353	0.000	98	81828	13.8	
67 2-Pentanone	43		6.478				ND	
68 Methylcyclohexane	55		6.548				ND	
69 1,2-Dichloropropane	63		6.576				ND	
70 Methyl methacrylate	100		6.590				ND	
71 1,4-Dioxane	88		6.632				ND	
72 Dibromomethane	93		6.660				ND	
73 Dichlorobromomethane	83		6.800				ND	
74 2-Nitropropane	41		6.981				ND	
75 2-Chloroethyl vinyl ether	63		7.023				ND	
76 cis-1,3-Dichloropropene	75		7.177				ND	
77 2,2-Dimethylpentane	57		7.278				ND	
78 2,4-Dimethylpentane	43		7.292				ND	
79 4-Methyl-2-pentanone (MIBK)	43		7.302				ND	
80 Toluene	91		7.484				ND	
81 2,2,3-Trimethylbutane	57		7.502				ND	
82 trans-1,3-Dichloropropene	75		7.679				ND	
83 3,3-Dimethylpentane	43		7.682				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 Ethyl methacrylate	69		7.707				ND	
85 2-Methylhexane	43		7.810				ND	
86 1,1,2-Trichloroethane	97		7.861				ND	
87 3-Methylhexane	43		7.903				ND	
88 2,3-Dimethylpentane	56		7.949				ND	
89 Tetrachloroethene	164	7.959	7.959	0.000	94	8811	1.99	
90 1,3-Dichloropropane	76		8.015				ND	
91 2-Hexanone	43		8.043				ND	
92 3-Ethylpentane	43		8.214				ND	
93 Chlorodibromomethane	129		8.224				ND	
94 Tetrahydrothiophene	60		8.224				ND	
95 Ethylene Dibromide	107		8.350				ND	
96 1-Chlorohexane	91		8.755				ND	7
97 Chlorobenzene	112		8.797				ND	
98 Ethylbenzene	106		8.880				ND	
99 1,1,1,2-Tetrachloroethane	131		8.880				ND	
100 m-Xylene & p-Xylene	106		9.006				ND	
101 o-Xylene	106		9.369				ND	
103 Styrene	104		9.383				ND	
102 Dimethyl disulfide	94		9.388				ND	
104 Bromoform	173		9.579				ND	
105 Isopropylbenzene	105		9.718				ND	
106 cis-1,4-Dichloro-2-butene	53		9.774				ND	
107 Cyclohexanone	55		9.830				ND	U
108 1,1,2,2-Tetrachloroethane	83		10.026				ND	
109 Bromobenzene	156		10.054				ND	
110 trans-1,4-Dichloro-2-butene	53		10.054				ND	
111 1,2,3-Trichloropropane	110		10.082				ND	
112 N-Propylbenzene	120		10.137				ND	
113 2-Chlorotoluene	126		10.235				ND	
114 1,3,5-Trimethylbenzene	105		10.305				ND	
115 4-Chlorotoluene	126		10.347				ND	
116 tert-Butylbenzene	119		10.626				ND	
117 1,2,4-Trimethylbenzene	105		10.682				ND	
118 sec-Butylbenzene	134		10.850				ND	
119 1,3-Dichlorobenzene	146		10.975				ND	
120 4-Isopropyltoluene	119		10.989				ND	
121 1,4-Dichlorobenzene	146		11.073				ND	
122 1,2,3-Trimethylbenzene	105		11.101				ND	
123 Pentachloroethane	167		11.283				ND	
124 n-Butylbenzene	91		11.408				ND	
125 1,2-Dichlorobenzene	146		11.436				ND	
126 1,2-Dibromo-3-Chloropropane	157		12.232				ND	
127 1,3,5-Trichlorobenzene	180		12.414				ND	
128 1,2,4-Trichlorobenzene	180		13.056				ND	
129 Hexachlorobutadiene	225		13.196				ND	
130 Naphthalene	128		13.336				ND	
131 n-Nonyl Aldehyde	57		13.340				ND	
132 1,2,3-Trichlorobenzene	180		13.559				ND	
142 Ethyl acrylate	55		0.000				ND	
145 4-Chlorobenzotrifluoride	1		0.000				ND	
141 Benzene, 1-bromo-4-ethyl-	1		0.000				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
136 4-Bromofluorobenzene	95		0.000				ND	
138 Pentachloroethane TIC	1		0.000				ND	
139 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
134 1,3-Dibromobenzene	1		0.000				ND	
140 n-Nonane TIC	1		0.000				ND	
135 t-Amyl alcohol	1		0.000				ND	
143 1,4-Dibromobenzene	1		0.000				ND	
144 1-Bromo-2-chloroethane	1		0.000				ND	
146 Benzene, 1-bromo-3-fluoro-	1		0.000				ND	
133 1,2-dichloro-4-(trifluoromethyl)	1		0.000				ND	
S 147 1,2-Dichloroethene, Total (URS)	95				0		0.5207	
S 154 1,3-Dichloropropene, Total	1		0.000				ND	7
S 153 1,2-Dichloroethene, Total	1				0		0.5207	
S 152 Trihalomethanes, Total	1		0.000				ND	7
S 151 Total BTEX	1		0.000				ND	7
S 150 Xylenes, Total (URS)	1		0.000				ND	7
S 149 TAH	1				0		0	
S 148 Xylenes, Total	106		0.000				ND	7
T 155 Dichloroacetonitrile TIC	74		1.000				ND	
T 156 2,3-dichloro-1-propene TIC	75		1.000				ND	
T 157 Propene oxide TIC	58		5.334				ND	
T 164 Dicyclopentadiene TIC	1		0.000				ND	
T 163 2-Butoxyethanol TIC	1		0.000				ND	
T 162 Propene TIC	1		0.000				ND	
T 161 Cyclohexane TIC	1		0.000				ND	
T 160 Methyl cyclohexane TIC	1		0.000				ND	
T 158 1,3-Butadiene TIC	1		0.000				ND	
T 159 4-Ethyltoluene TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 07-Aug-2023 07:12:04

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2896.D

Injection Date: 05-Aug-2023 01:41:30

Instrument ID: VMS_MS1

Operator ID: bj

Lims ID: 280-179478-B-13

Lab Sample ID: 280-179478-13

Worklist Smp#: 26

Client ID: MW-116S-20230723

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

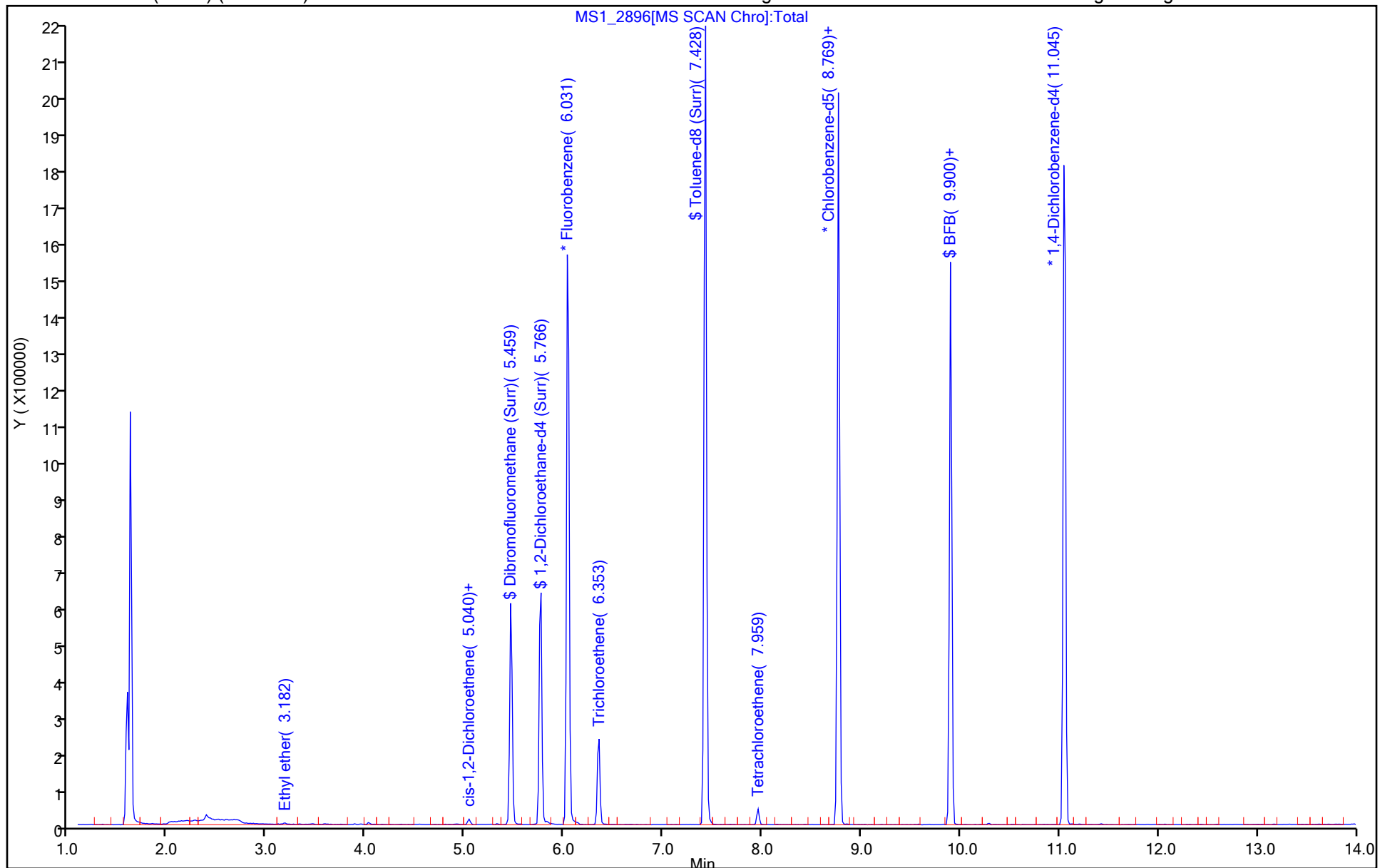
ALS Bottle#: 21

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\VMS1_2896.D
 Lims ID: 280-179478-B-13
 Client ID: MW-116S-20230723
 Sample Type: Client
 Inject. Date: 05-Aug-2023 01:41:30 ALS Bottle#: 21 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-B-13
 Misc. Info.: 280-0124217-026
 Operator ID: bj Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 07-Aug-2023 07:10:20 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1607

First Level Reviewer: AF7X

Date: 07-Aug-2023 07:01:22

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	51.9	103.84
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.2	106.35
\$ 6 Toluene-d8 (Surr)	50.0	49.3	98.55
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.4	102.90

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2896.D

Injection Date: 05-Aug-2023 01:41:30

Instrument ID: VMS_MS1

Lims ID: 280-179478-B-13

Lab Sample ID: 280-179478-13

Client ID: MW-116S-20230723

Operator ID: bj

ALS Bottle#: 21

Worklist Smp#: 26

Purge Vol: 5.000 mL

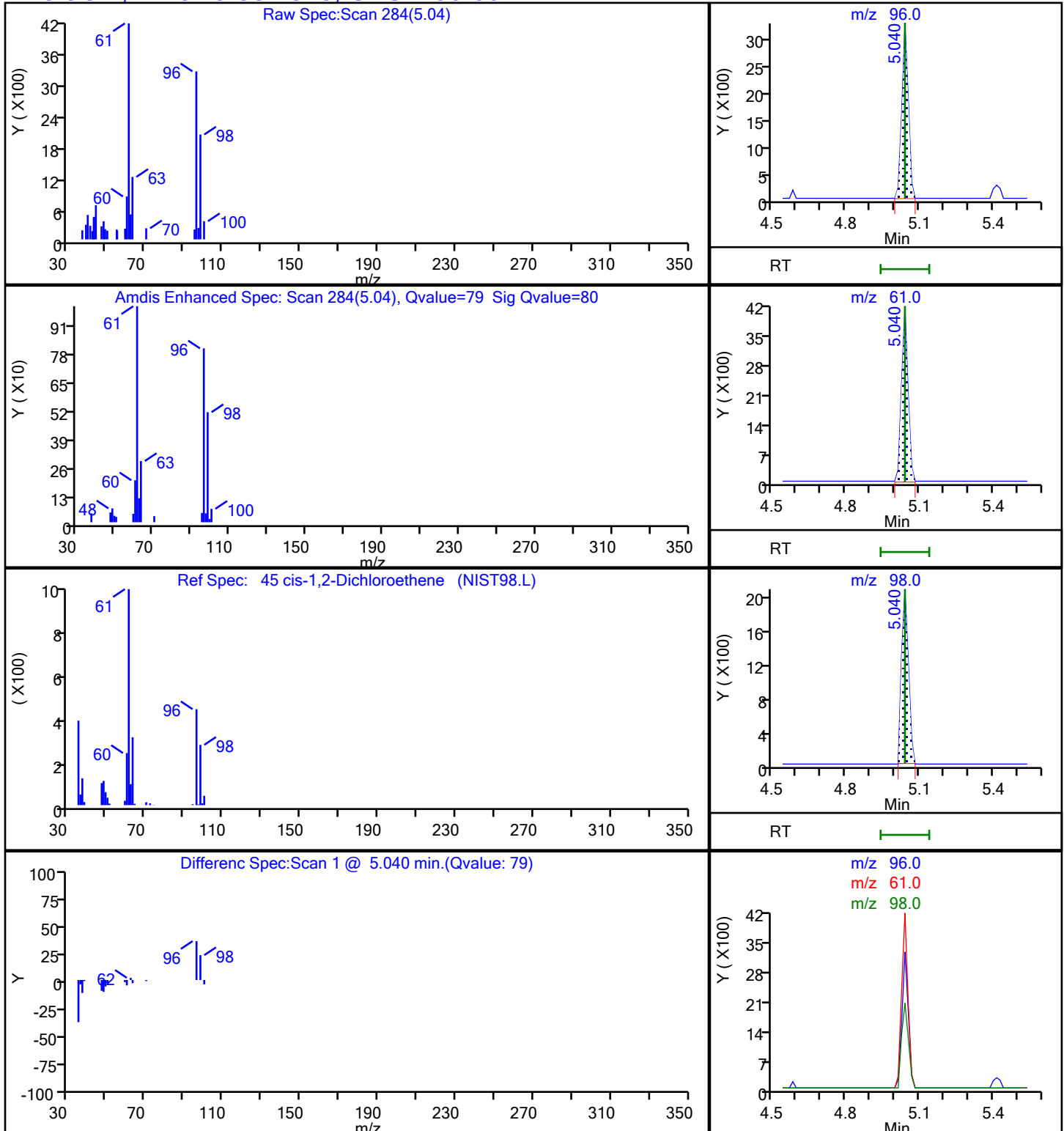
Dil. Factor: 1.0000

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2896.D

Injection Date: 05-Aug-2023 01:41:30

Instrument ID: VMS_MS1

Lims ID: 280-179478-B-13

Lab Sample ID: 280-179478-13

Client ID: MW-116S-20230723

Operator ID: bj

ALS Bottle#: 21

Worklist Smp#: 26

Purge Vol: 5.000 mL

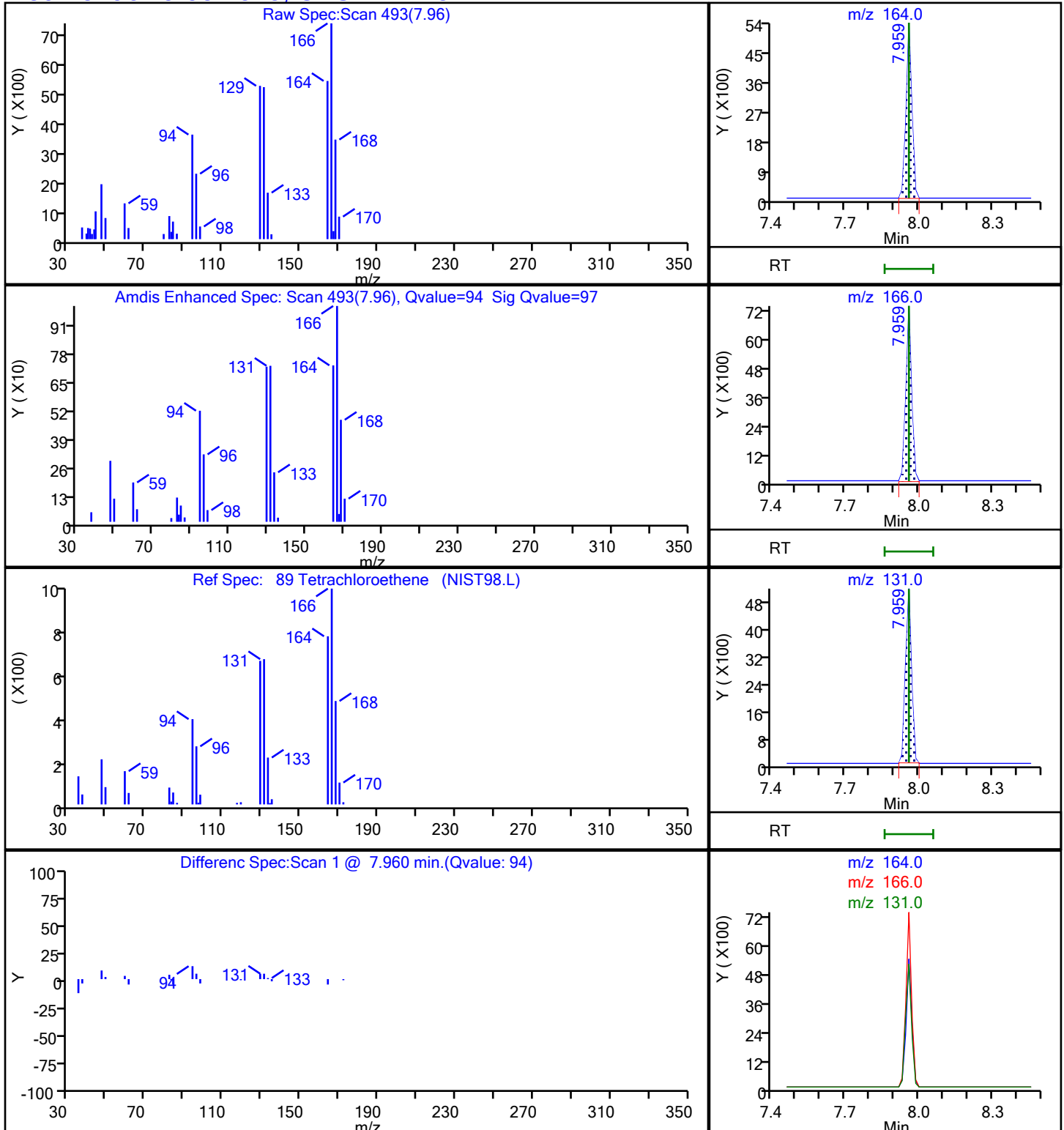
Dil. Factor: 1.0000

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

89 Tetrachloroethene, CAS: 127-18-4

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2896.D

Injection Date: 05-Aug-2023 01:41:30

Instrument ID: VMS_MS1

Lims ID: 280-179478-B-13

Lab Sample ID: 280-179478-13

Client ID: MW-116S-20230723

Operator ID: bj

ALS Bottle#: 21

Worklist Smp#: 26

Purge Vol: 5.000 mL

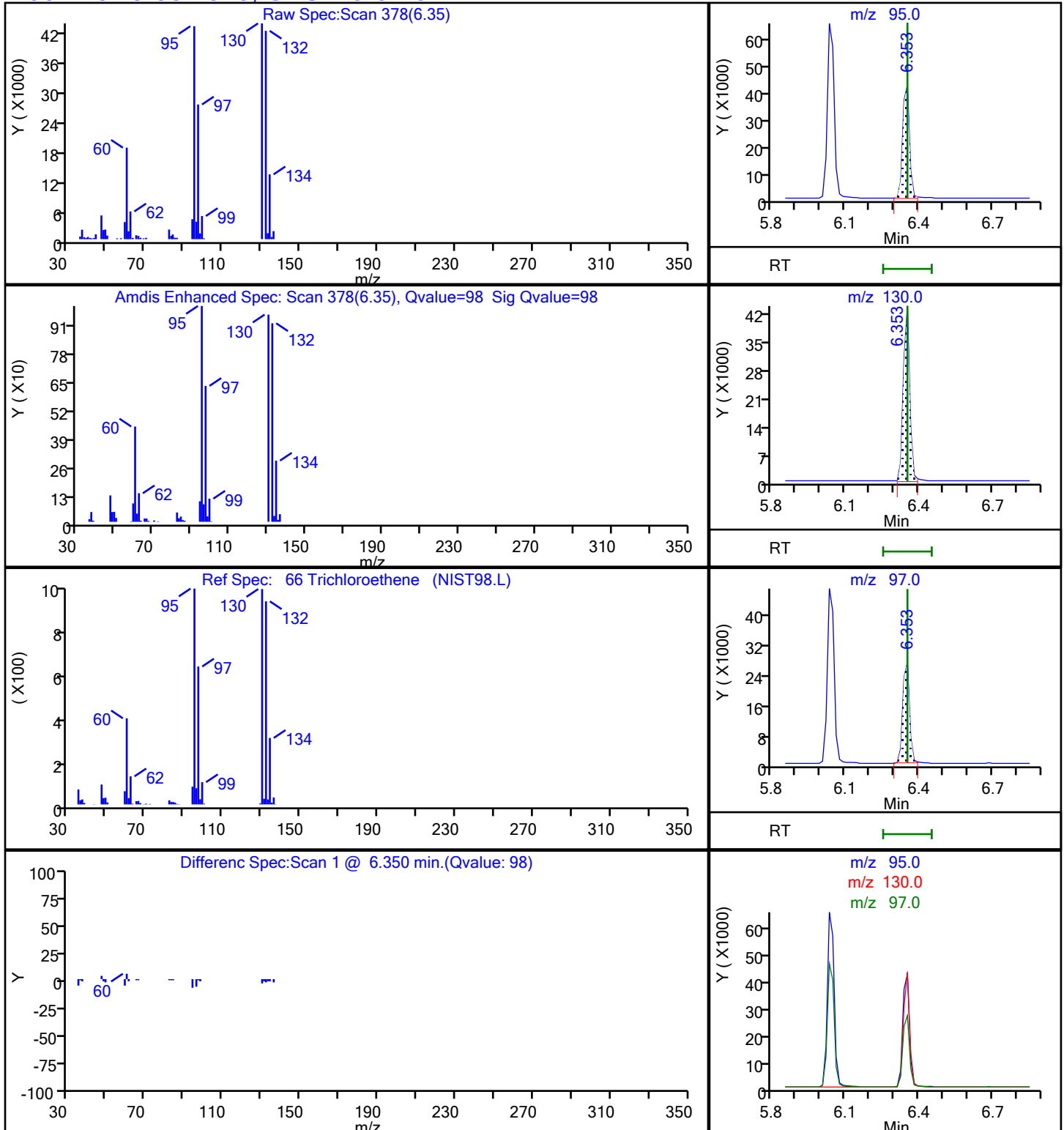
Dil. Factor: 1.0000

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

66 Trichloroethene, CAS: 79-01-6

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2896.D

Injection Date: 05-Aug-2023 01:41:30

Instrument ID: VMS_MS1

Lims ID: 280-179478-B-13

Lab Sample ID: 280-179478-13

Client ID: MW-116S-20230723

Operator ID: bj

ALS Bottle#:

21

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

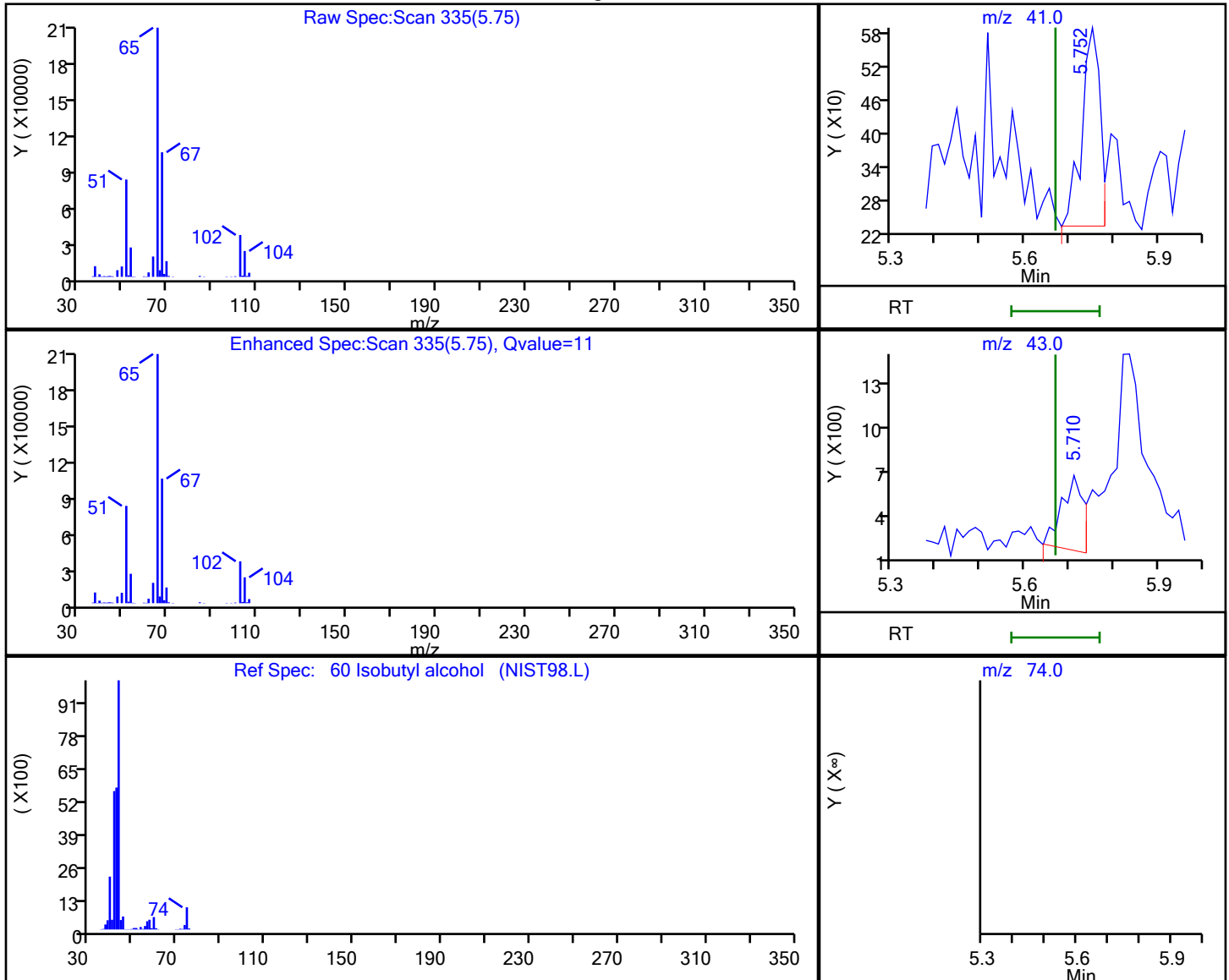
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

60 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
5.75	41.00	1055	4.732201
5.71	43.00	1742	
5.67	74.00	0	

Reviewer: AF7X, 07-Aug-2023 07:01:08 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2896.D

Injection Date: 05-Aug-2023 01:41:30

Instrument ID: VMS_MS1

Lims ID: 280-179478-B-13

Lab Sample ID: 280-179478-13

Client ID: MW-116S-20230723

Operator ID: bj

ALS Bottle#: 21

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMS1_8260

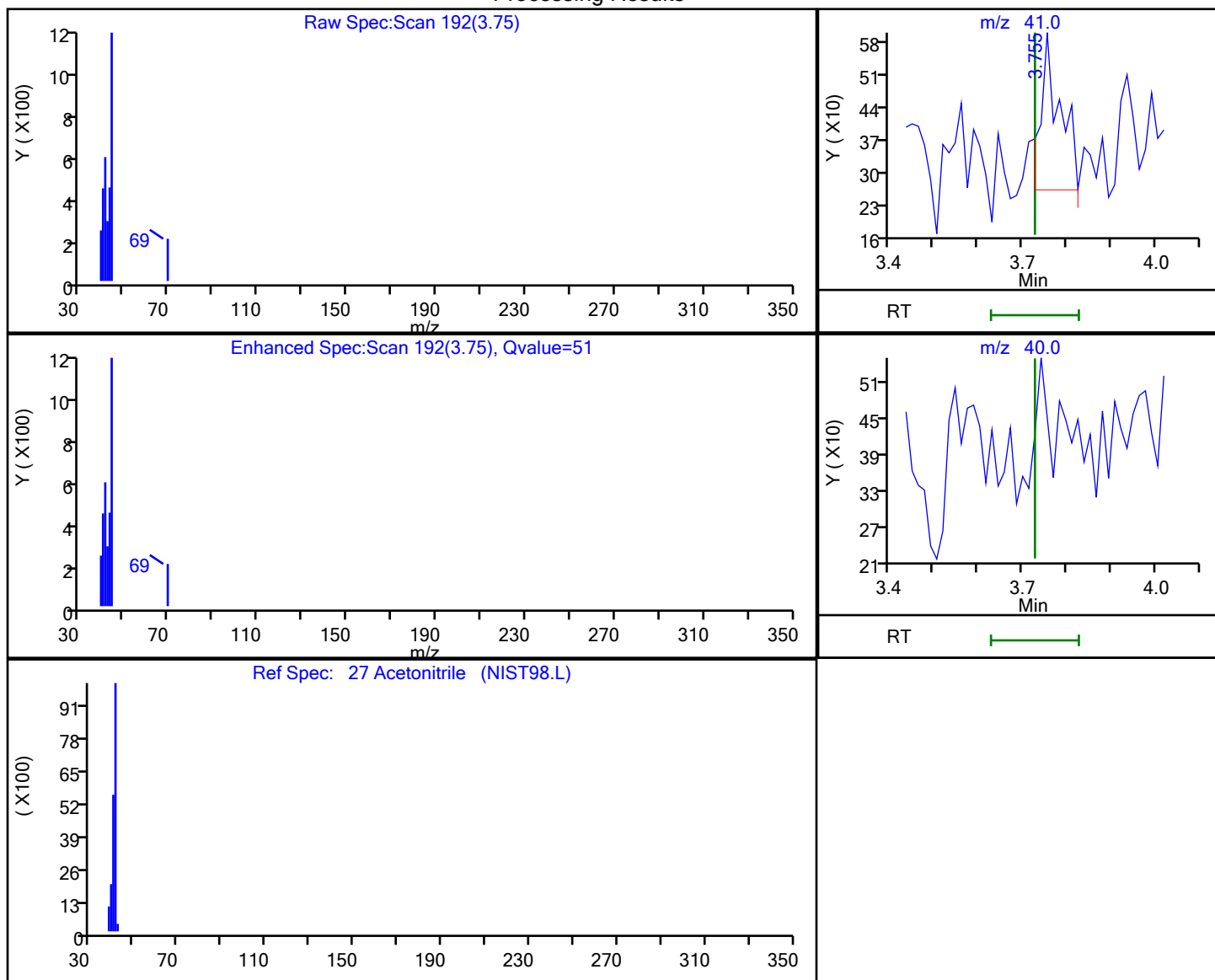
Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

27 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
3.75	41.00	1022	0.939694
3.73	40.00	0	

Reviewer: AF7X, 07-Aug-2023 07:00:43 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-1-20230722</u>	Lab Sample ID: <u>280-179478-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6800.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 10:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 21:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND	*1	2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-1-20230722</u>	Lab Sample ID: <u>280-179478-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6800.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 10:45</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/03/2023 21:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25(mm)</u>
Purge Volume: <u>5.0(mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND	*1	3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	0.50	J	1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND	*+	15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: PA-1-20230722 Lab Sample ID: 280-179478-14
Matrix: Water Lab File ID: R_6800.D
Analysis Method: 8260D Date Collected: 07/22/2023 10:45
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 21:17
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621775 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-127
460-00-4	4-Bromofluorobenzene (Surr)	108		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	105		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6800.D
 Lims ID: 280-179478-A-14
 Client ID: PA-1-20230722
 Sample Type: Client
 Inject. Date: 03-Aug-2023 21:17:30 ALS Bottle#: 12 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-14
 Misc. Info.: 280-0124173-019
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:15:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.815	-0.003	98	1644030	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	405361	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	578229	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.320	0.001	91	451813	52.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	564512	54.7	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1751737	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	82	606799	54.2	
\$ 8 BFB	95	8.414	8.414	0.000	82	606799	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.801				ND	
13 Bromomethane	94		2.068				ND	
14 Chloroethane	64		2.150				ND	
16 Trichlorofluoromethane	101		2.341				ND	
18 Ethyl ether	59		2.547				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.724				ND	
22 1,1-Dichloroethene	96		2.724				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.840				ND	
26 Carbon disulfide	76		2.900				ND	
27 Acetonitrile	41		2.945				ND	
28 Methyl acetate	43		2.967				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.072				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.455				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.575				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.627				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.983				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.148				ND	
51 Tetrahydrofuran	42		4.156				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.455				ND	
56 Carbon tetrachloride	117		4.459				ND	
57 Isobutyl alcohol	41		4.474				ND	
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	7
64 n-Butanol	56		4.969				ND	
65 Trichloroethene	95	5.089	5.085	0.004	88	3919	0.5010	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.483				ND	
73 2-Nitropropane	41		5.647				ND	
74 2-Chloroethyl vinyl ether	63		5.685				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.289				ND	
79 Ethyl methacrylate	69		6.319				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.915				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.417				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	7
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.915				ND	
94 Bromoform	173		8.095				ND	
95 Isopropylbenzene	105		8.242				ND	
97 Cyclohexanone	55		8.335				ND	
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.553				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.119				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.891				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.697				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.664				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.013				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6800.D

Injection Date: 03-Aug-2023 21:17:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179478-A-14

Lab Sample ID: 280-179478-14

Worklist Smp#: 19

Client ID: PA-1-20230722

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

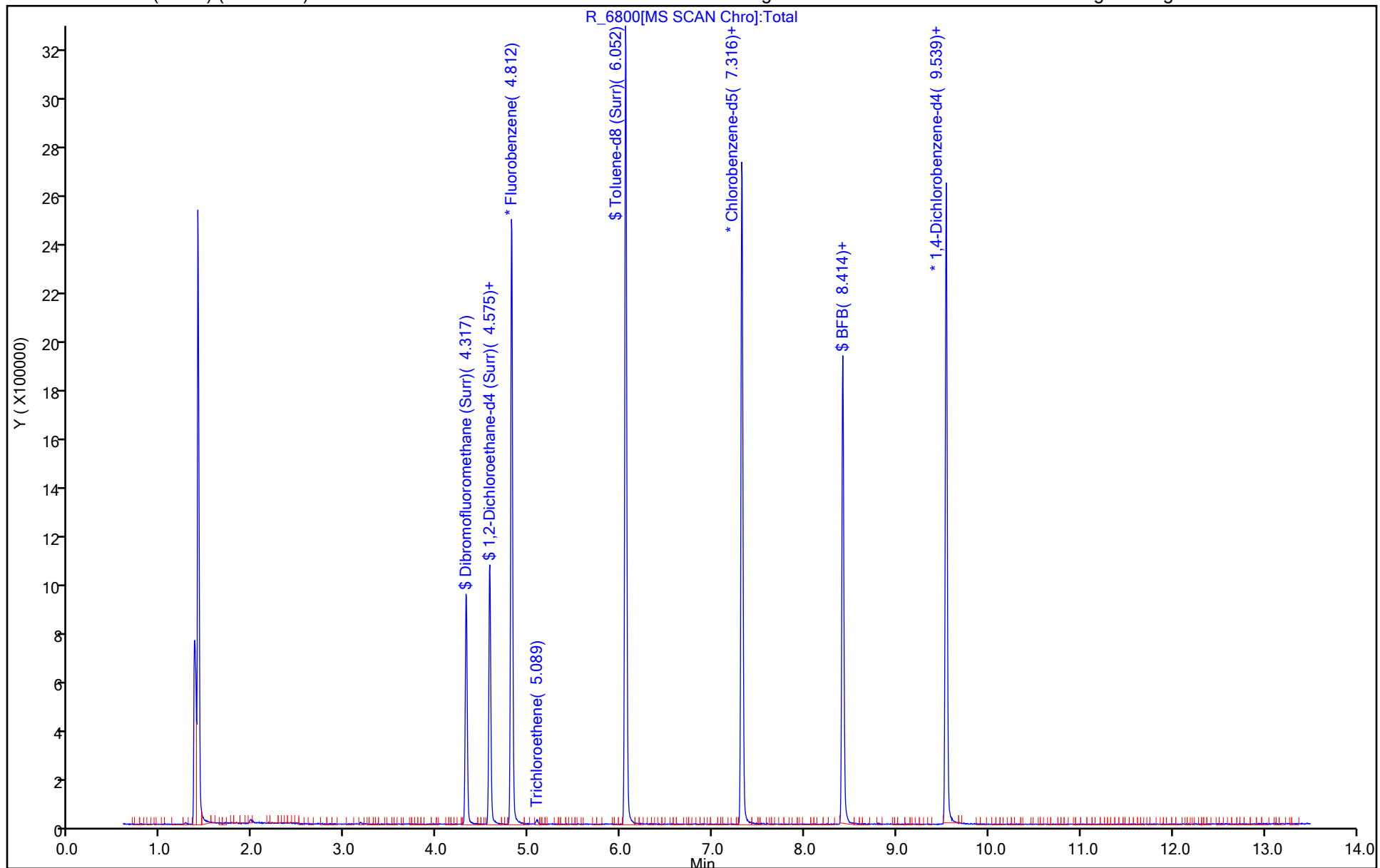
ALS Bottle#: 12

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6800.D
Lims ID: 280-179478-A-14
Client ID: PA-1-20230722
Sample Type: Client
Inject. Date: 03-Aug-2023 21:17:30 ALS Bottle#: 12 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-A-14
Misc. Info.: 280-0124173-019
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:15:53

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	52.3	104.60
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	54.7	109.33
\$ 6 Toluene-d8 (Surr)	50.0	50.2	100.34
\$ 7 4-Bromofluorobenzene (Surr)	50.0	54.2	108.40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6800.D

Injection Date: 03-Aug-2023 21:17:30

Instrument ID: VMS_R1

Lims ID: 280-179478-A-14

Lab Sample ID: 280-179478-14

Client ID: PA-1-20230722

Operator ID: sjd

ALS Bottle#: 12

Worklist Smp#: 19

Purge Vol: 5.000 mL

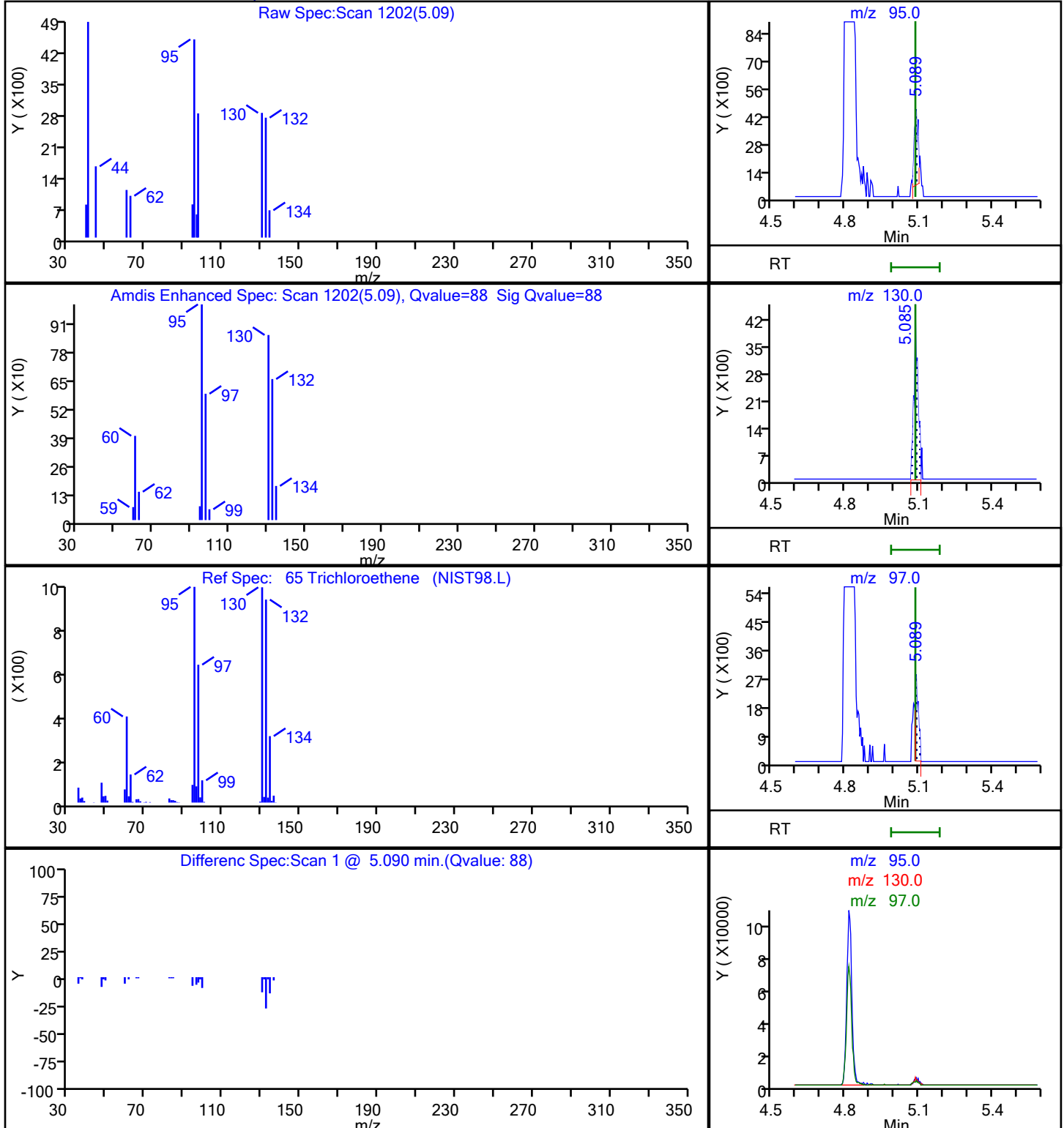
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>EB-03-20230722</u>	Lab Sample ID: <u>280-179478-15</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000557.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 13:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 11:23</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>EB-03-20230722</u>	Lab Sample ID: <u>280-179478-15</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000557.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 13:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 11:23</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	++	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: EB-03-20230722 Lab Sample ID: 280-179478-15
Matrix: Water Lab File ID: ms11_00000557.D
Analysis Method: 8260D Date Collected: 07/22/2023 13:25
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 11:23
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	106		78-120
2037-26-5	Toluene-d8 (Surr)	104		80-125
1868-53-7	Dibromofluoromethane (Surr)	98		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000557.D
 Lims ID: 280-179478-A-15
 Client ID: EB-03-20230722
 Sample Type: Client
 Inject. Date: 03-Aug-2023 11:23:30 ALS Bottle#: 9 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-15
 Misc. Info.: 280-0124144-015
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:01:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1683220	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	431180	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	748521	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	93	460441	49.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	635786	52.5	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	1805260	51.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	93	679210	52.8	
\$ 8 BFB	95	8.657	8.643	0.014	93	680322	NR	
9 Dichlorodifluoromethane	85		1.702				ND	
10 Chloromethane	50		1.883				ND	U
11 Vinyl chloride	62		1.981				ND	
12 Bromomethane	94		2.246				ND	U
13 Chloroethane	64		2.344				ND	7
14 Dichlorofluoromethane	67		2.526				ND	
15 Trichlorofluoromethane	101		2.554				ND	
16 Ethanol	45		2.679				ND	
17 Ethyl ether	59		2.763				ND	
18 Acrolein	56		2.875				ND	U
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.959				ND	
19 1,1-Dichloroethene	96		2.959				ND	
21 Acetone	43		2.973				ND	7
22 Isopropyl alcohol	45		3.056				ND	
23 Iodomethane	142		3.084				ND	
24 Carbon disulfide	76		3.140				ND	7
25 Acetonitrile	41	3.182	3.182	0.000	71	1849	1.48	
26 Methyl acetate	43		3.196				ND	
27 3-Chloro-1-propene	41		3.224				ND	U
28 Methylene Chloride	84	3.322	3.308	0.014	76	1212	0.1298	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	92	4255	4.01	
30 Acrylonitrile	53		3.476				ND	
31 Methyl tert-butyl ether	73		3.489				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 trans-1,2-Dichloroethene	96		3.517				ND	
33 Hexane	57		3.699				ND	U
34 Vinyl acetate	43		3.797				ND	
36 Isopropyl ether	87		3.825				ND	
35 1,1-Dichloroethane	63		3.825				ND	
37 2-Chloro-1,3-butadiene	53		3.867				ND	
38 Tert-butyl ethyl ether	59	4.090	4.076	0.014	97	3336	0.1254	
39 2-Butanone (MEK)	43		4.202				ND	
40 Ethyl acetate	43		4.216				ND	U
41 cis-1,2-Dichloroethene	96		4.230				ND	
43 Propionitrile	54		4.244				ND	U
42 2,2-Dichloropropane	77		4.244				ND	
44 sec-Butyl Alcohol	45		4.313				ND	
45 Methacrylonitrile	41		4.355				ND	
46 Chlorobromomethane	128		4.411				ND	
47 Tetrahydrofuran	42		4.411				ND	
48 Chloroform	83		4.467				ND	
49 1,1,1-Trichloroethane	97		4.607				ND	
50 Cyclohexane	56		4.663				ND	
51 1,1-Dichloropropene	75		4.719				ND	
52 Carbon tetrachloride	117		4.719				ND	
53 Isobutyl alcohol	43		4.732				ND	
54 Benzene	78		4.872				ND	
55 1,2-Dichloroethane	62		4.886				ND	7
56 Tert-amyl methyl ether	73		4.928				ND	
57 n-Heptane	43		5.040				ND	
58 n-Butanol	56		5.207				ND	
59 Trichloroethene	130		5.347				ND	
60 2-Pentanone	43		5.445				ND	
63 Methyl methacrylate	100		5.542				ND	
61 Methylcyclohexane	55		5.543				ND	
62 1,2-Dichloropropane	63		5.543				ND	
64 1,4-Dioxane	88		5.598				ND	
65 Dibromomethane	93		5.626				ND	
66 Dichlorobromomethane	83		5.738				ND	
67 2-Nitropropane	41		5.892				ND	U
68 2-Chloroethyl vinyl ether	63		5.934				ND	
69 cis-1,3-Dichloropropene	75		6.087				ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185				ND	
71 Toluene	91		6.367				ND	
72 trans-1,3-Dichloropropene	75		6.534				ND	
73 Ethyl methacrylate	69		6.562				ND	
74 1,1,2-Trichloroethane	97		6.716				ND	
75 Tetrachloroethene	164		6.813				ND	
76 1,3-Dichloropropane	76		6.855				ND	
77 2-Hexanone	43		6.869				ND	
78 Chlorodibromomethane	129		7.051				ND	
79 Ethylene Dibromide	107		7.163				ND	
80 1-Chlorohexane	91		7.554				ND	7
81 Chlorobenzene	112		7.596				ND	
82 1,1,1,2-Tetrachloroethane	131		7.665				ND	
83 Ethylbenzene	106		7.665				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 m-Xylene & p-Xylene	91		7.791				ND	
85 o-Xylene	106		8.140				ND	
86 Styrene	104		8.154				ND	
87 Bromoform	173		8.336				ND	
88 Isopropylbenzene	105		8.475				ND	
89 cis-1,4-Dichloro-2-butene	53		8.517				ND	7
90 Cyclohexanone	55		8.573				ND	
91 1,1,2,2-Tetrachloroethane	83		8.755				ND	
93 trans-1,4-Dichloro-2-butene	53		8.797				ND	U
92 Bromobenzene	156		8.797				ND	
94 1,2,3-Trichloropropane	110		8.825				ND	
95 N-Propylbenzene	120		8.866				ND	
96 2-Chlorotoluene	126		8.964				ND	
97 1,3,5-Trimethylbenzene	105		9.034				ND	
98 4-Chlorotoluene	126		9.090				ND	
99 tert-Butylbenzene	119		9.341				ND	
100 1,2,4-Trimethylbenzene	105		9.397				ND	
101 sec-Butylbenzene	134		9.565				ND	
102 1,3-Dichlorobenzene	146		9.690				ND	U
103 4-Isopropyltoluene	119		9.704				ND	
104 1,4-Dichlorobenzene	146		9.788				ND	7
105 1,2,3-Trimethylbenzene	105		9.802				ND	7
106 n-Butylbenzene	91		10.109				ND	
107 1,2-Dichlorobenzene	146		10.137				ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906				ND	
109 1,3,5-Trichlorobenzene	180		11.101				ND	
110 1,2,4-Trichlorobenzene	180		11.730				ND	
111 Hexachlorobutadiene	225		11.869				ND	
112 Naphthalene	128		11.995				ND	
113 1,2,3-Trichlorobenzene	180		12.204				ND	
114 Methyl cyclohexane TIC	1		0.000				ND	
115 Ethylene oxide TIC	1		0.000				ND	
116 1-Chlorohexane TIC	1		0.000				ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000				ND	
118 Pentachloroethane	167		0.000				ND	
119 t-Amyl alcohol	1		0.000				ND	
120 Ethyl acrylate	55		0.000				ND	
121 Tetrahydrothiophene TIC	1		0.000				ND	
S 122 Xylenes, Total	106		0.000				ND	7
S 123 1,2-Dichloroethene, Total	1		0.000				ND	7
S 124 1,3-Dichloropropene, Total	1		0.000				ND	7
S 125 Trihalomethanes, Total	1		0.000				ND	7
S 126 TAH	1				0		0	7
S 127 Total BTEX	1		0.000				ND	7
T 129 Propene TIC	1		1.369				ND	
T 128 Propene oxide TIC	1		1.369				ND	
T 130 1,3-Butadiene TIC	1		1.985				ND	
T 131 2,3-Dichloro-1-propene TIC	1		6.150				ND	
T 132 4-Ethyltoluene TIC	1		9.345				ND	
T 133 Dicyclopentadiene TIC	1		9.670				ND	
T 134 Dichloroacetonitrile TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:13:19

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000557.D

Injection Date: 03-Aug-2023 11:23:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: 280-179478-A-15

Lab Sample ID: 280-179478-15

Worklist Smp#: 15

Client ID: EB-03-20230722

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

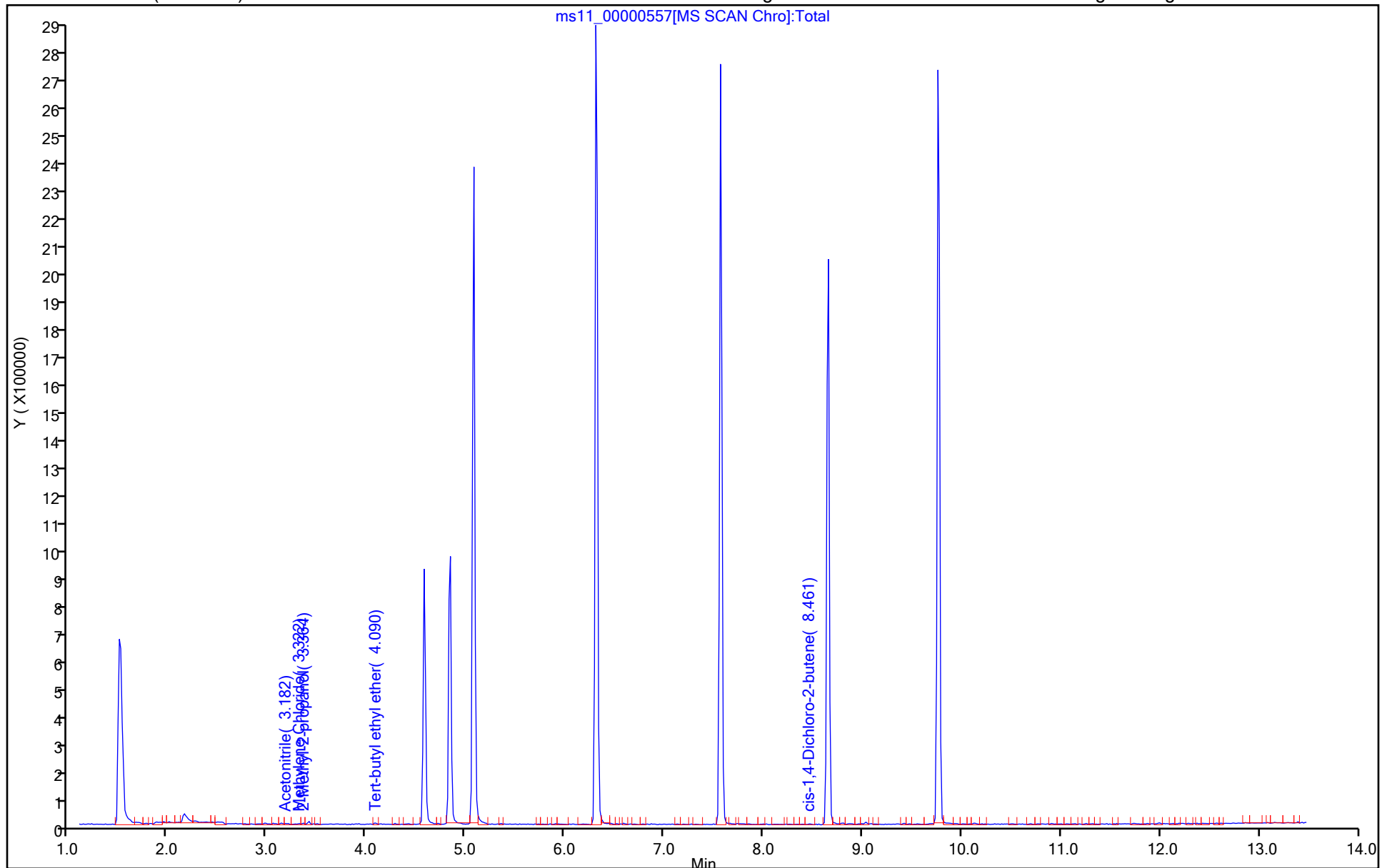
ALS Bottle#: 9

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000557.D
Lims ID: 280-179478-A-15
Client ID: EB-03-20230722
Sample Type: Client
Inject. Date: 03-Aug-2023 11:23:30 ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-A-15
Misc. Info.: 280-0124144-015
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 00:11:49 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1613

First Level Reviewer: AK2J

Date: 04-Aug-2023 00:01:27

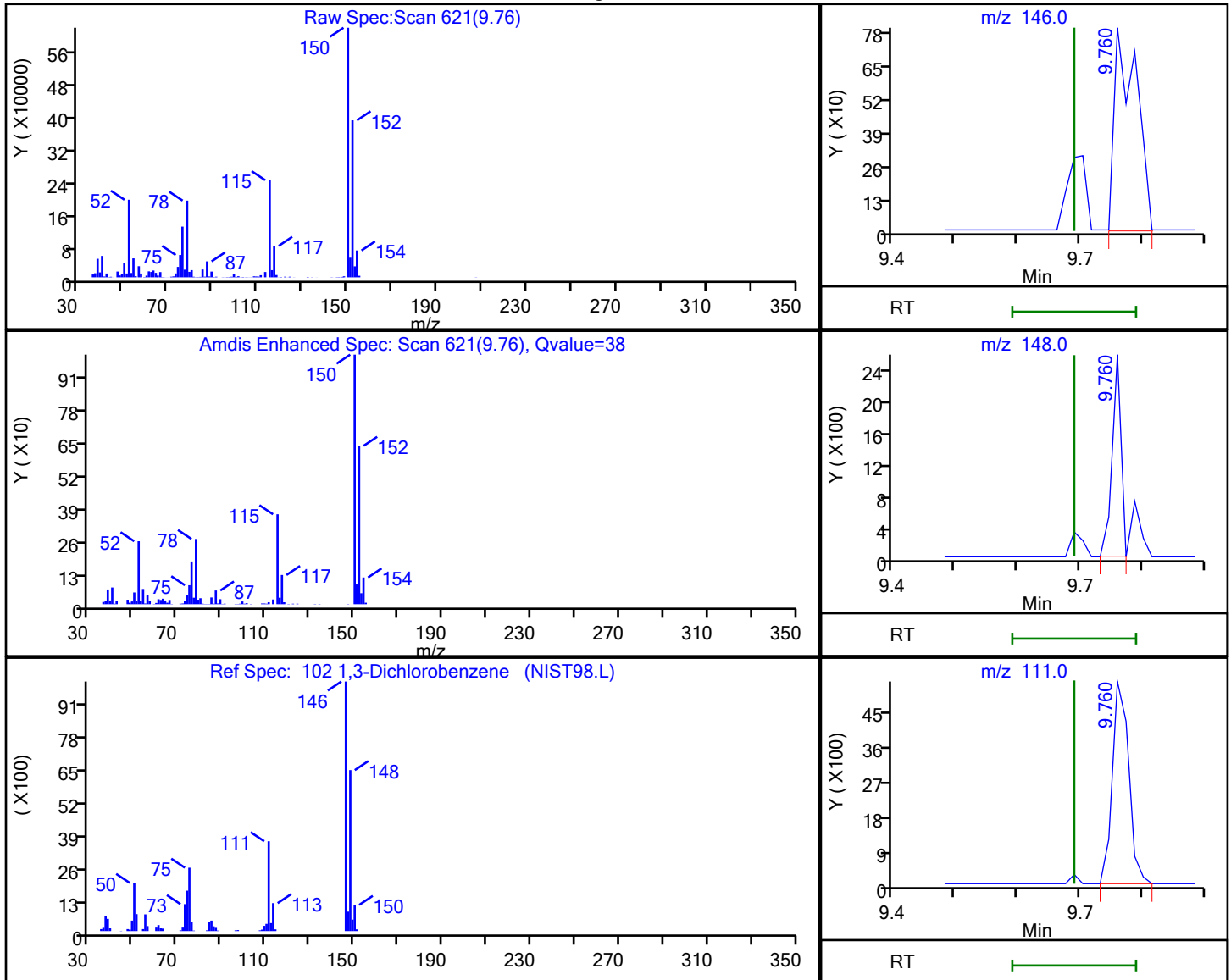
Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.0	97.96
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.5	104.94
\$ 6 Toluene-d8 (Surr)	50.0	51.9	103.83
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.8	105.50

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000557.D
Injection Date: 03-Aug-2023 11:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-15 Lab Sample ID: 280-179478-15
Client ID: EB-03-20230722
Operator ID: MED ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

102 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
9.76	146.00	1980	0.101758
9.76	148.00	2570	
9.76	111.00	9664	

Reviewer: AK2J, 04-Aug-2023 00:01:22 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

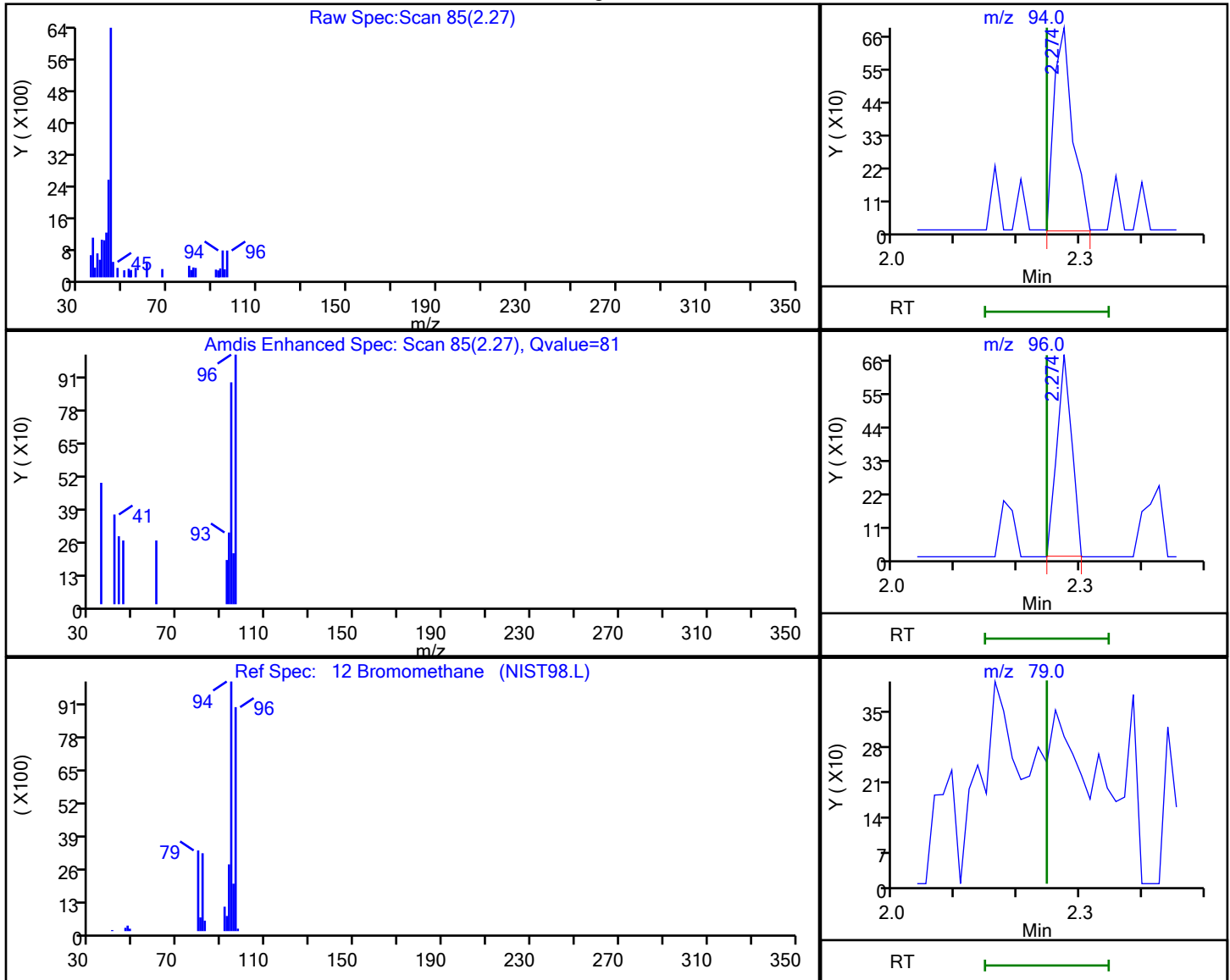
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000557.D
Injection Date: 03-Aug-2023 11:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-15 Lab Sample ID: 280-179478-15
Client ID: EB-03-20230722
Operator ID: MED ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

12 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.27	94.00	1422	0.269054
2.27	96.00	1131	
2.25	79.00	0	

Reviewer: AK2J, 04-Aug-2023 00:00:56 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

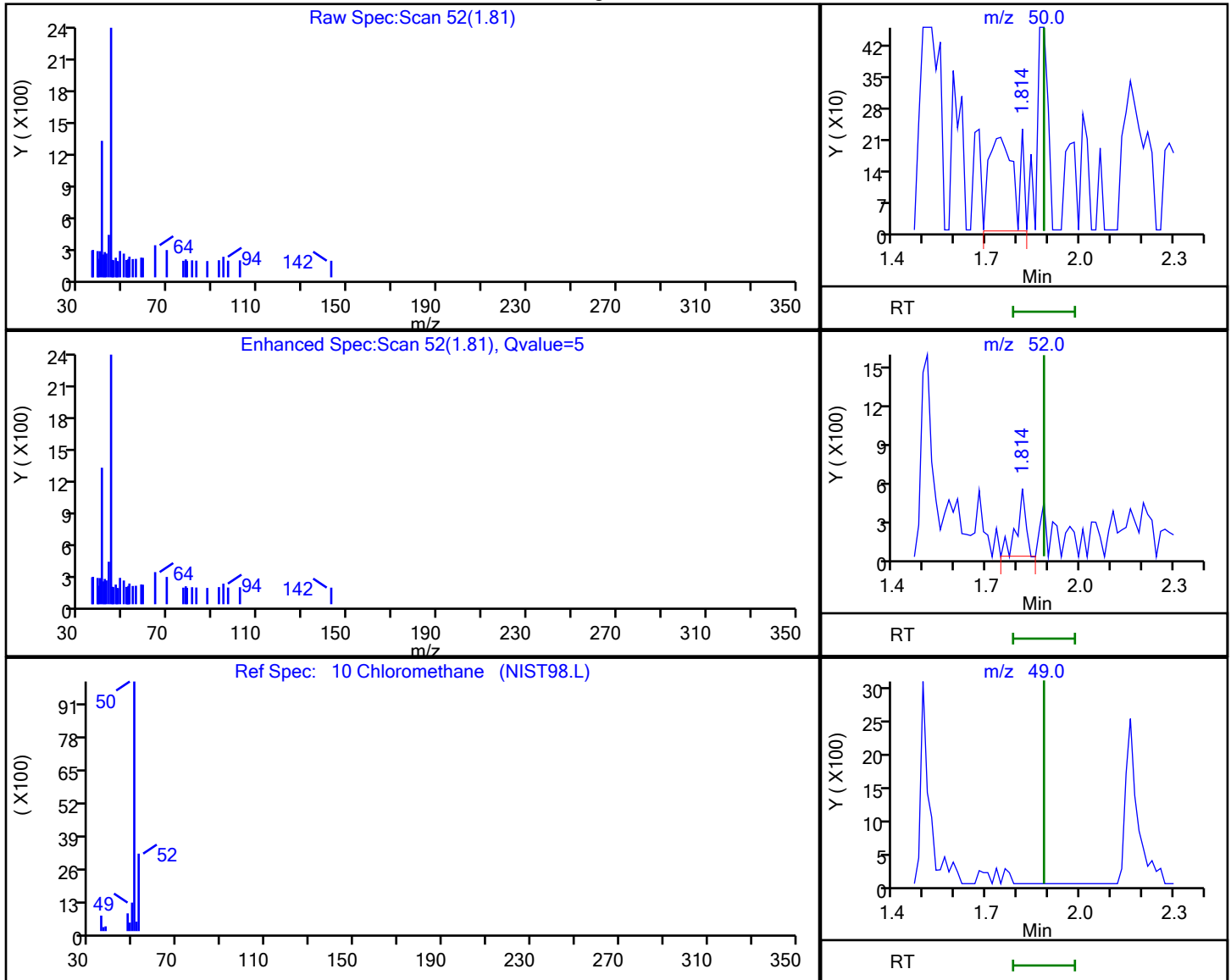
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000557.D
Injection Date: 03-Aug-2023 11:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-15 Lab Sample ID: 280-179478-15
Client ID: EB-03-20230722
Operator ID: MED ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.81	50.00	1224	0.100196
1.81	52.00	1090	
1.88	49.00	0	

Reviewer: AK2J, 04-Aug-2023 00:00:52 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

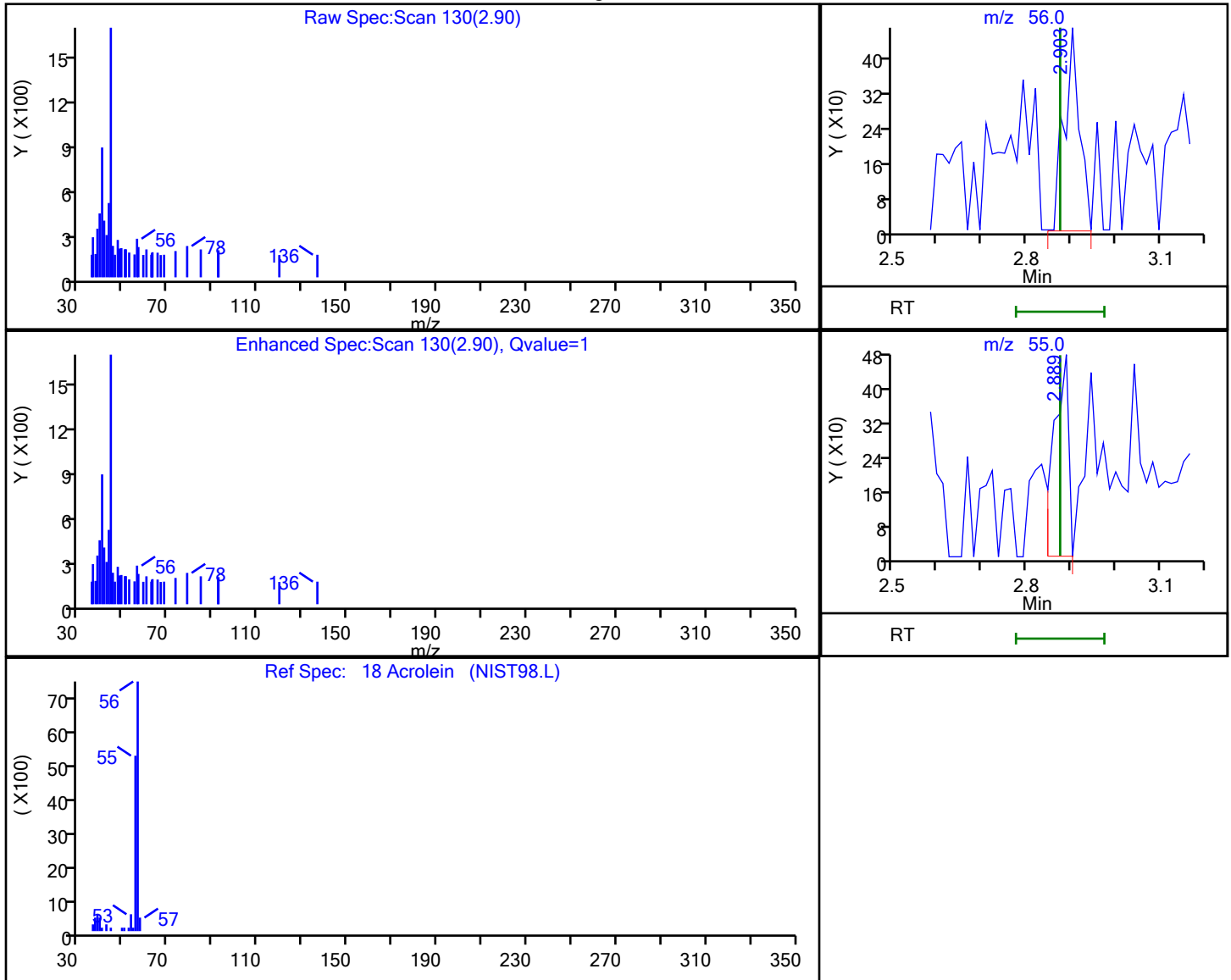
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000557.D
Injection Date: 03-Aug-2023 11:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-15 Lab Sample ID: 280-179478-15
Client ID: EB-03-20230722
Operator ID: MED ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

18 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
2.90	56.00	1114	0.852258
2.89	55.00	1079	

Reviewer: AK2J, 04-Aug-2023 00:00:58 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

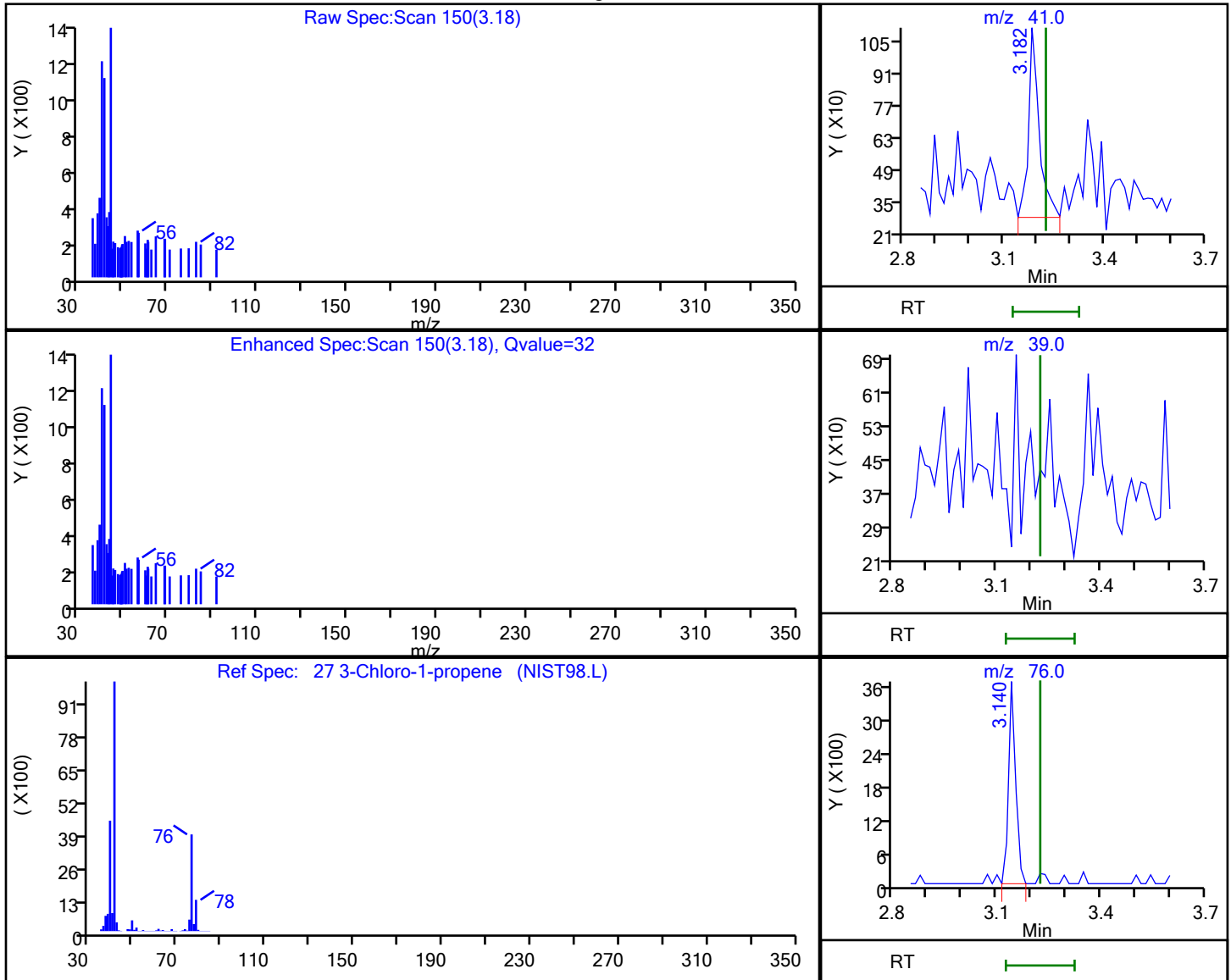
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000557.D
Injection Date: 03-Aug-2023 11:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-15 Lab Sample ID: 280-179478-15
Client ID: EB-03-20230722
Operator ID: MED ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

27 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.18	41.00	1849	0.122339
3.22	39.00	0	
3.14	76.00	5301	

Reviewer: AK2J, 04-Aug-2023 00:01:01 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

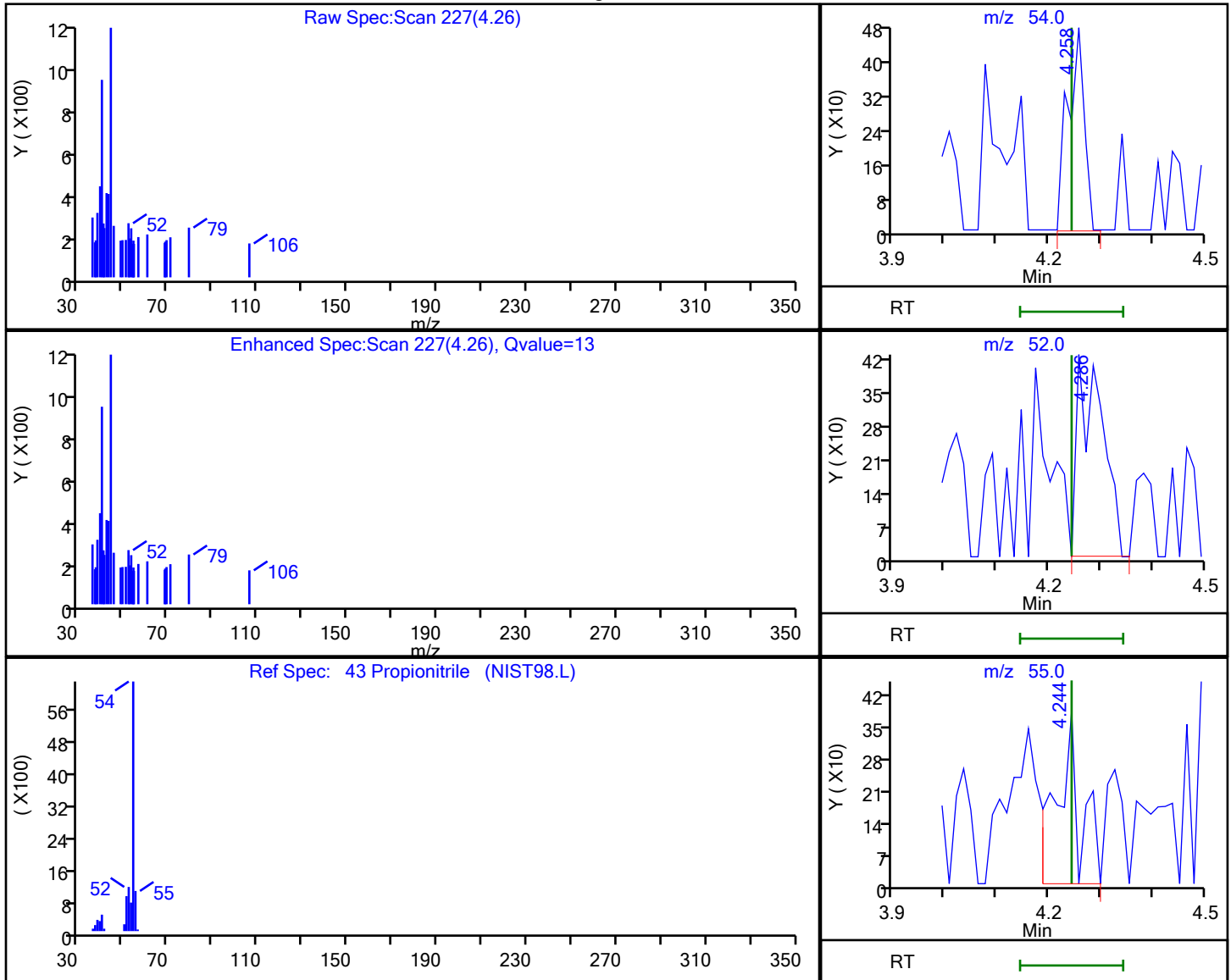
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000557.D
Injection Date: 03-Aug-2023 11:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-15 Lab Sample ID: 280-179478-15
Client ID: EB-03-20230722
Operator ID: MED ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

43 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
4.26	54.00	1043	0.812337
4.29	52.00	1435	
4.24	55.00	1227	

Reviewer: AK2J, 04-Aug-2023 00:01:13 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

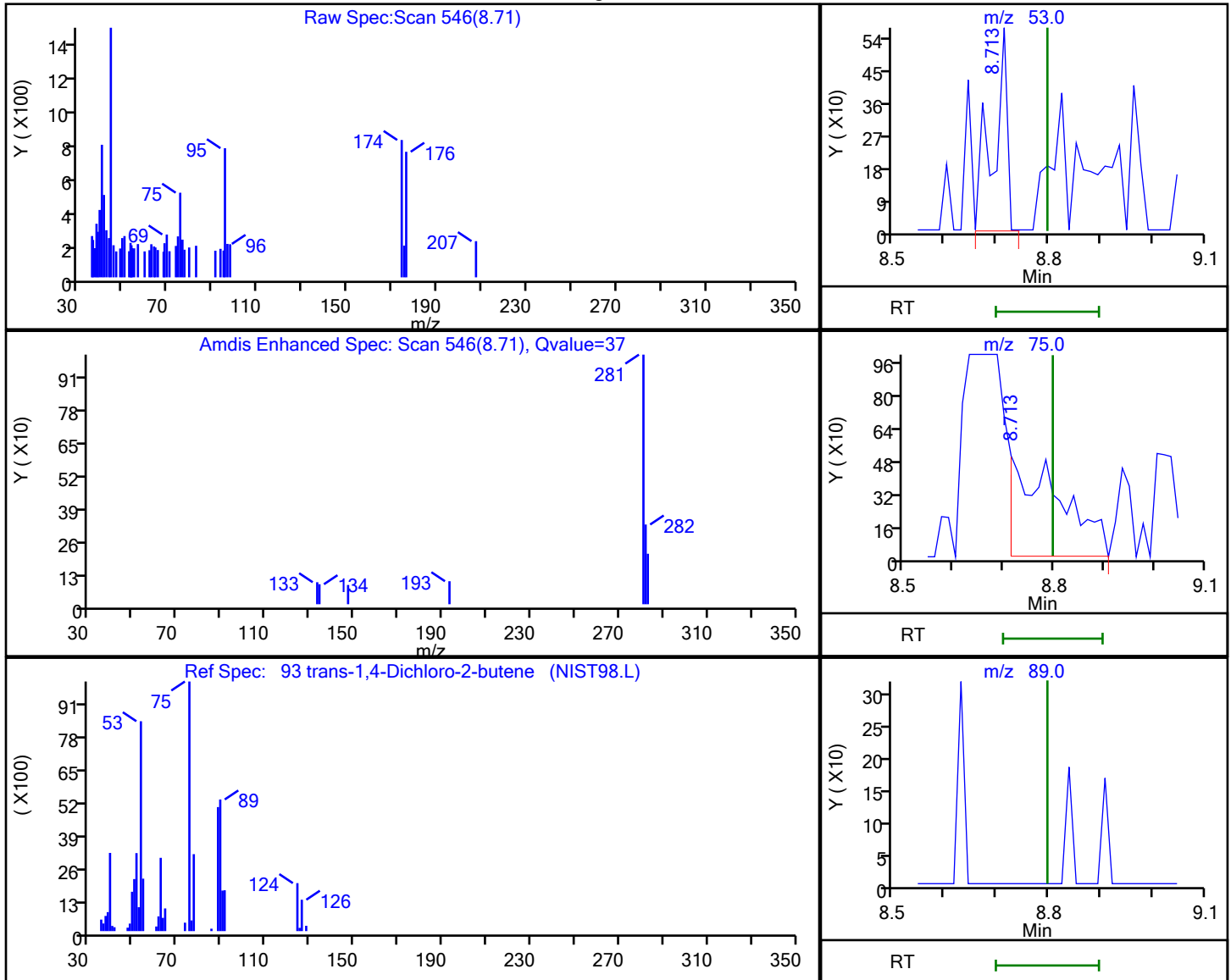
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000557.D
Injection Date: 03-Aug-2023 11:23:30 Instrument ID: VMS_MS11
Lims ID: 280-179478-A-15 Lab Sample ID: 280-179478-15
Client ID: EB-03-20230722
Operator ID: MED ALS Bottle#: 9 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

93 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
8.71	53.00	1029	0.306073
8.71	75.00	3444	
8.80	89.00	0	

Reviewer: AK2J, 04-Aug-2023 00:01:20 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-1-Q-20230722</u>	Lab Sample ID: <u>280-179478-16</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6801.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 10:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 21:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND	*1	2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>PA-1-Q-20230722</u>	Lab Sample ID: <u>280-179478-16</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6801.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/22/2023 10:45</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 21:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND	*1	3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	0.50	J	1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND	*+	30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND	*+	15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: PA-1-Q-20230722 Lab Sample ID: 280-179478-16
Matrix: Water Lab File ID: R_6801.D
Analysis Method: 8260D Date Collected: 07/22/2023 10:45
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 21:37
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621775 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		70-127
460-00-4	4-Bromofluorobenzene (Surr)	107		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	105		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6801.D
 Lims ID: 280-179478-A-16
 Client ID: PA-1-Q-20230722
 Sample Type: Client
 Inject. Date: 03-Aug-2023 21:37:30 ALS Bottle#: 13 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-16
 Misc. Info.: 280-0124173-020
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:16:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.815	-0.004	98	1660591	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	404591	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.539	0.003	98	592832	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	456507	52.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	574254	55.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1760905	50.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	82	615818	53.6	
\$ 8 BFB	95	8.414	8.414	0.000	81	615818	NR	
9 Dichlorodifluoromethane	85		1.554				ND	
10 Chloromethane	50		1.715				ND	
11 Vinyl chloride	62		1.801				ND	
13 Bromomethane	94		2.068				ND	
14 Chloroethane	64		2.150				ND	
16 Trichlorofluoromethane	101		2.341				ND	
18 Ethyl ether	59		2.547				ND	
20 Acrolein	56		2.649				ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		2.724				ND	
22 1,1-Dichloroethene	96		2.724				ND	
23 Acetone	43		2.746				ND	7
25 Iodomethane	142		2.840				ND	
26 Carbon disulfide	76		2.900				ND	7
27 Acetonitrile	41		2.945				ND	
28 Methyl acetate	43		2.967				ND	
29 3-Chloro-1-propene	41		2.982				ND	
30 Methylene Chloride	84		3.072				ND	
32 Acrylonitrile	53		3.230				ND	
33 Methyl tert-butyl ether	73		3.256				ND	
34 trans-1,2-Dichloroethene	96		3.267				ND	
35 Hexane	57		3.455				ND	
37 Vinyl acetate	43		3.556				ND	
39 1,1-Dichloroethane	63		3.575				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53		3.627				ND	
43 2-Butanone (MEK)	43		3.953				ND	
44 Ethyl acetate	43		3.968				ND	
45 cis-1,2-Dichloroethene	96		3.972				ND	
46 2,2-Dichloropropane	77		3.983				ND	
47 Propionitrile	54		3.998				ND	
49 Methacrylonitrile	41		4.107				ND	
50 Chlorobromomethane	128		4.148				ND	
51 Tetrahydrofuran	42		4.156				ND	
52 Chloroform	83		4.204				ND	
53 1,1,1-Trichloroethane	97		4.343				ND	
54 Cyclohexane	56		4.399				ND	
55 1,1-Dichloropropene	75		4.455				ND	
56 Carbon tetrachloride	117		4.459				ND	
57 Isobutyl alcohol	41		4.474				ND	U
58 Benzene	78		4.602				ND	
59 1,2-Dichloroethane	62		4.632				ND	7
64 n-Butanol	56		4.969				ND	
65 Trichloroethene	95	5.093	5.085	0.008	91	3906	0.5003	
67 Methylcyclohexane	55		5.273				ND	
68 1,2-Dichloropropane	63		5.288				ND	
69 Methyl methacrylate	100		5.299				ND	
70 1,4-Dioxane	88		5.336				ND	
71 Dibromomethane	93		5.359				ND	
72 Dichlorobromomethane	83		5.483				ND	
73 2-Nitropropane	41		5.647				ND	
74 2-Chloroethyl vinyl ether	63		5.685				ND	
75 cis-1,3-Dichloropropene	75		5.827				ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929				ND	
77 Toluene	91		6.112				ND	
78 trans-1,3-Dichloropropene	75		6.289				ND	
79 Ethyl methacrylate	69		6.319				ND	
80 1,1,2-Trichloroethane	97		6.461				ND	
81 Tetrachloroethene	164		6.551				ND	
82 1,3-Dichloropropane	76		6.607				ND	
83 2-Hexanone	43		6.630				ND	
84 Chlorodibromomethane	129		6.798				ND	
86 Ethylene Dibromide	107		6.915				ND	
88 Chlorobenzene	112		7.346				ND	
89 1,1,1,2-Tetrachloroethane	131		7.417				ND	
90 Ethylbenzene	106		7.424				ND	
91 m-Xylene & p-Xylene	106		7.544				ND	
92 o-Xylene	106		7.900				ND	
93 Styrene	104		7.915				ND	
94 Bromoform	173		8.095				ND	
95 Isopropylbenzene	105		8.242				ND	
97 Cyclohexanone	55		8.335				ND	
98 1,1,2,2-Tetrachloroethane	83		8.530				ND	
99 Bromobenzene	156		8.553				ND	
100 trans-1,4-Dichloro-2-butene	53		8.568				ND	
101 1,2,3-Trichloropropane	110		8.590				ND	
102 N-Propylbenzene	120		8.639				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
103 2-Chlorotoluene	126		8.733				ND	
104 1,3,5-Trimethylbenzene	105		8.815				ND	
105 4-Chlorotoluene	126		8.849				ND	
106 tert-Butylbenzene	119		9.119				ND	
107 1,2,4-Trimethylbenzene	105		9.179				ND	
108 sec-Butylbenzene	134		9.340				ND	
109 Pentachloroethane	167		9.392				ND	
110 1,3-Dichlorobenzene	146		9.464				ND	
111 4-Isopropyltoluene	119		9.490				ND	
112 1,4-Dichlorobenzene	146		9.565				ND	
114 n-Butylbenzene	91		9.891				ND	
115 1,2-Dichlorobenzene	146		9.917				ND	
116 1,2-Dibromo-3-Chloropropane	157		10.697				ND	
117 1,3,5-Trichlorobenzene	180		10.888				ND	
118 1,2,4-Trichlorobenzene	180		11.522				ND	
119 Hexachlorobutadiene	225		11.664				ND	
120 Naphthalene	128		11.788				ND	
121 1,2,3-Trichlorobenzene	180		12.013				ND	
124 n-Nonyl Aldehyde	1		0.000				ND	
S 142 Trihalomethanes, Total	1		0.000				ND	7
S 141 Xylenes, Total	106		0.000				ND	7
S 140 1,2-Dichloroethene, Total	1		0.000				ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6801.D

Injection Date: 03-Aug-2023 21:37:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179478-A-16

Lab Sample ID: 280-179478-16

Worklist Smp#: 20

Client ID: PA-1-Q-20230722

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

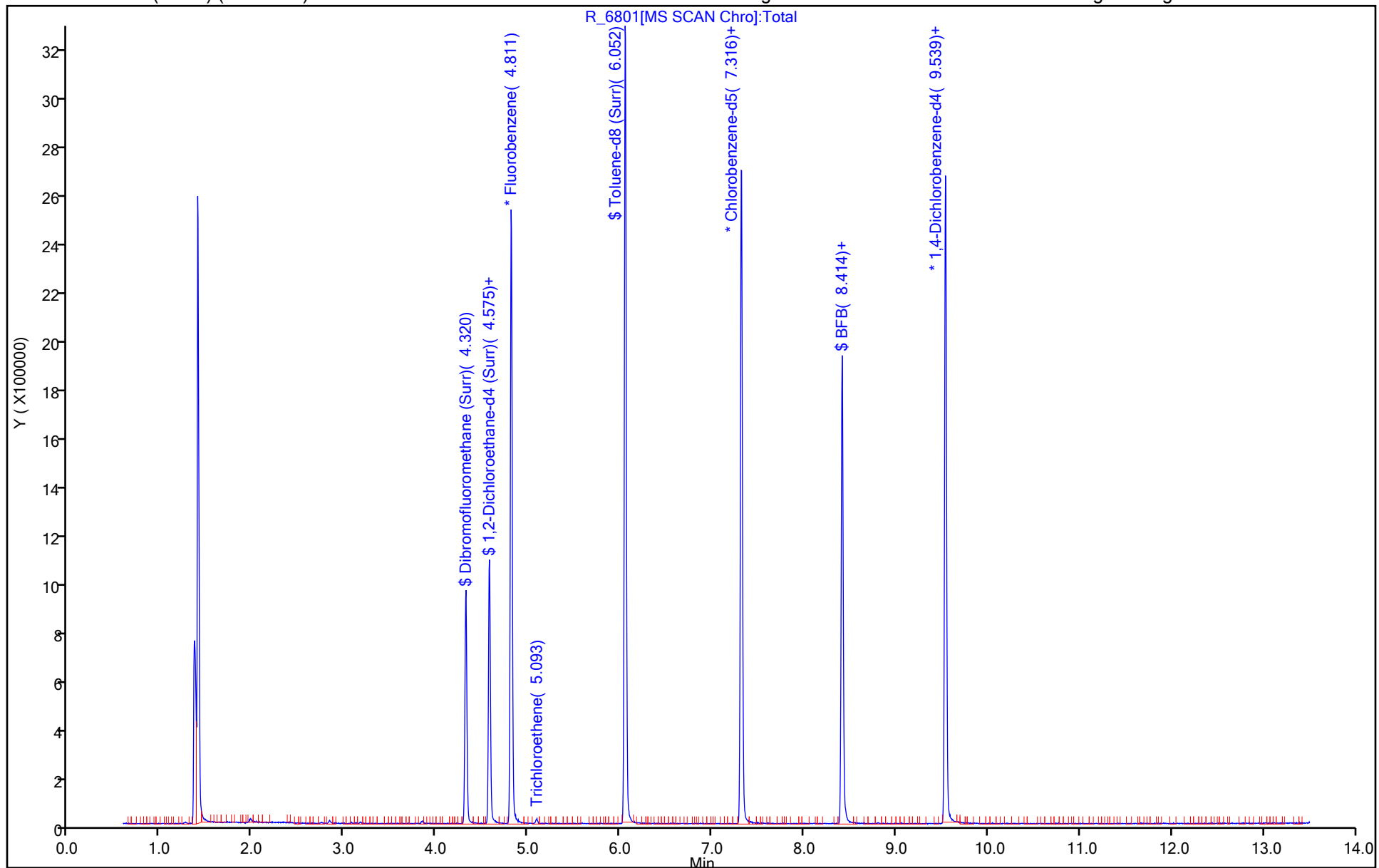
ALS Bottle#: 13

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\IR_6801.D
 Lims ID: 280-179478-A-16
 Client ID: PA-1-Q-20230722
 Sample Type: Client
 Inject. Date: 03-Aug-2023 21:37:30 ALS Bottle#: 13 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-A-16
 Misc. Info.: 280-0124173-020
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 23:17:13 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\IR_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1648

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:16:08

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	52.3	104.64
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	55.1	110.11
\$ 6 Toluene-d8 (Surr)	50.0	50.5	101.06
\$ 7 4-Bromofluorobenzene (Surr)	50.0	53.6	107.30

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6801.D

Injection Date: 03-Aug-2023 21:37:30

Instrument ID: VMS_R1

Lims ID: 280-179478-A-16

Lab Sample ID: 280-179478-16

Client ID: PA-1-Q-20230722

Operator ID: sjd

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 5.000 mL

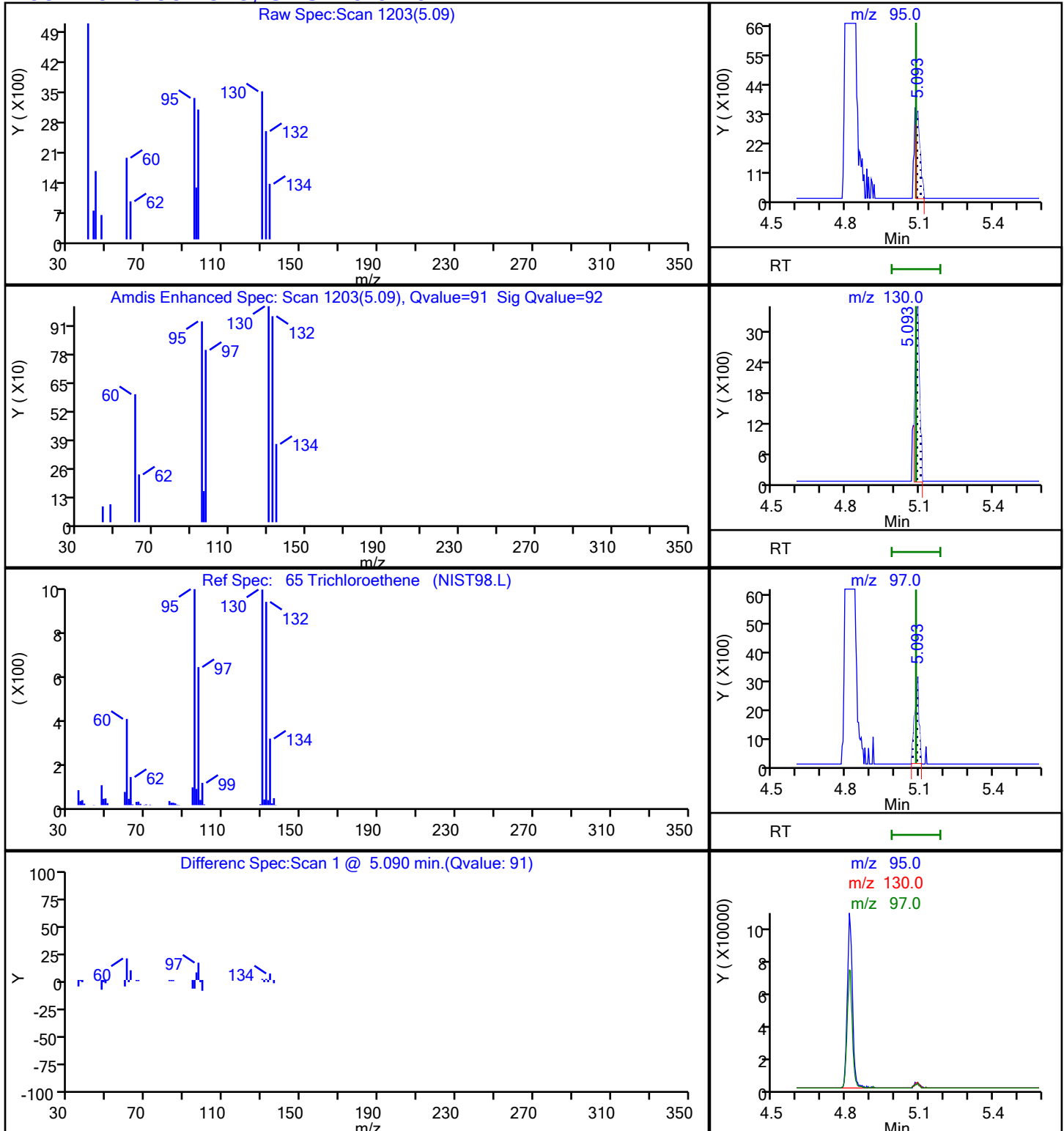
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

65 Trichloroethene, CAS: 79-01-6

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6801.D

Injection Date: 03-Aug-2023 21:37:30

Instrument ID: VMS_R1

Lims ID: 280-179478-A-16

Lab Sample ID: 280-179478-16

Client ID: PA-1-Q-20230722

Operator ID: sjd

ALS Bottle#: 13

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

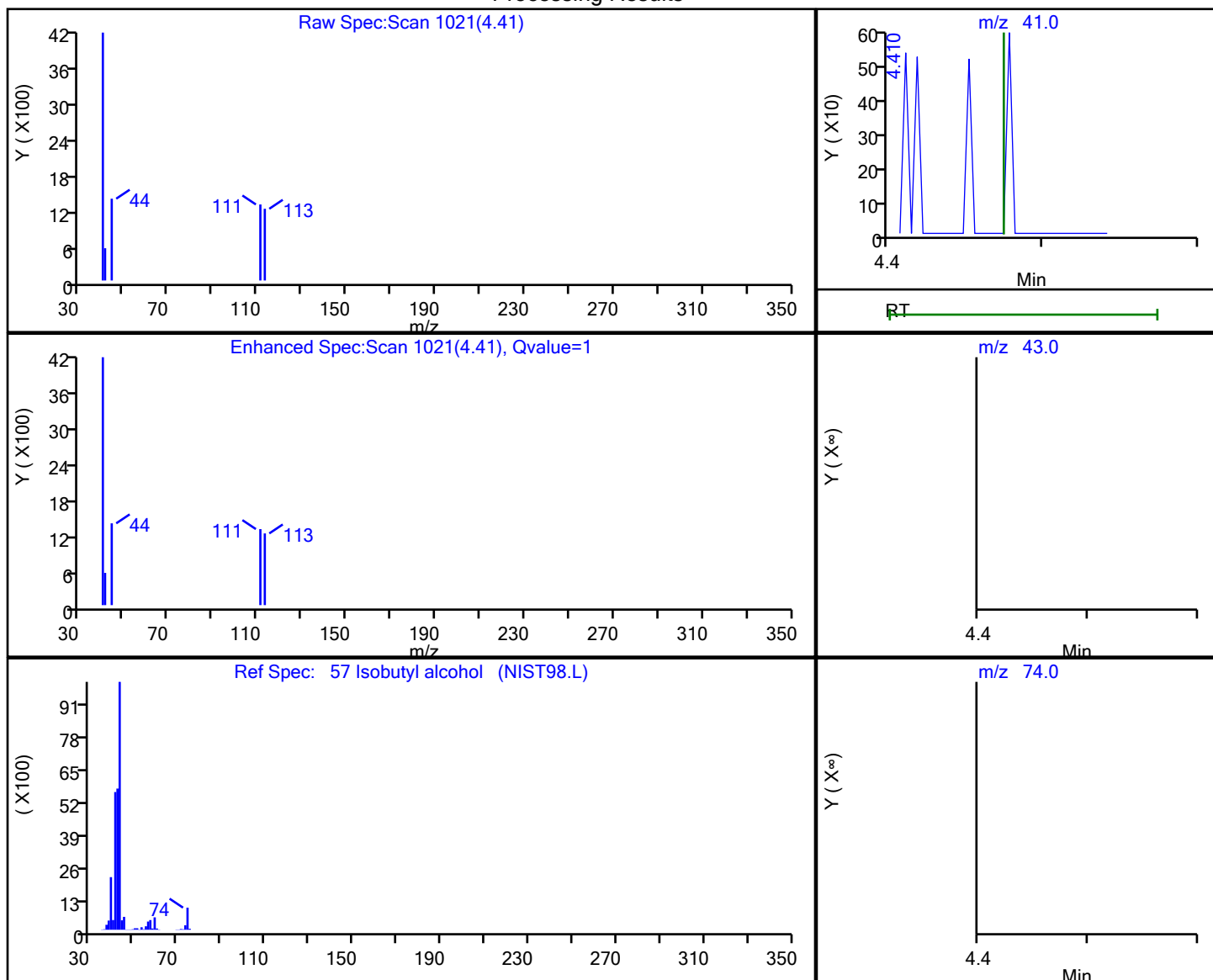
Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector: MS SCAN

57 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.41	41.00	239	10.933601
4.47	43.00	0	
4.47	74.00	0	

Reviewer: J6NB, 03-Aug-2023 23:16:00 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 597846
SDG No.: _____
Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 12/28/2022 11:59 Calibration End Date: 12/28/2022 14:33 Calibration ID: 75254

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-597846/12	MS1_4150.D
Level 2	STD2 280-597846/13	MS1_4151.D
Level 3	STD5 280-597846/14	MS1_4152.D
Level 4	STD10 280-597846/15	MS1_4153.D
Level 5	STD50 280-597846/16	MS1_4154.D
Level 6	STD75 280-597846/17	MS1_4155.D
Level 7	STD100 280-597846/18	MS1_4156.D
Level 8	STD200 280-597846/19	MS1_4157.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Ethanol	++++ 0.0034	0.0042 0.0033	0.0034 ++++	0.0034	0.0034	Ave		0.003 5				10.0		15.0			
Isopropyl alcohol	++++ 0.0169	0.0166 0.0166	0.0173 ++++	0.0174	0.0161	Ave		0.016 8				2.9		15.0			
Acetonitrile	++++ 0.0367	0.0477 0.0358	0.0439 ++++	0.0395	0.0366	Ave		0.040 0				12.0		15.0			
Isopropyl ether	0.1915 0.1657	0.1427 0.1715	0.1496 ++++	0.1702	0.1558	Ave		0.163 9				9.9		15.0			
Chloroprene	0.3296 0.3209	0.3147 0.3290	0.2830 ++++	0.3069	0.3003	Ave		0.312 0				5.4		15.0			
Tert-butyl ethyl ether	0.6592 0.6173	0.5778 0.6391	0.5939 ++++	0.6206	0.5974	Ave		0.615 0				4.6		15.0			
Ethyl acetate	0.3426 0.2460	0.2599 0.2479	0.2633 ++++	0.2491	0.2438	Lin2	0.179 0	0.241 1							0.9970		0.9900
Propionitrile	0.0464 0.0394	0.0403 0.0386	0.0388 ++++	0.0401	0.0391	Ave		0.040 4				6.7		15.0			
Methacrylonitrile	0.1823 0.1525	0.1457 0.1523	0.1567 ++++	0.1571	0.1509	Ave		0.156 8				7.6		15.0			
Tert-amyl methyl ether	0.6391 0.5735	0.5357 0.5852	0.5479 ++++	0.5433	0.5526	Ave		0.568 2				6.3		15.0			
n-Butanol	0.0063 0.0067	0.0050 0.0069	0.0054 ++++	0.0054	0.0064	Ave		0.006 0				12.2		15.0			
Methyl methacrylate	0.0795 0.0622	0.0597 0.0636	0.0590 ++++	0.0596	0.0605	Ave		0.063 4				11.4		15.0			
2-Nitropropane	0.0690 0.0550	0.0523 0.0563	0.0442 ++++	0.0432	0.0509	Lin1	-0.00 9	0.054 2							0.9950		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 597846

SDG No.: _____

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2022 11:59 Calibration End Date: 12/28/2022 14:33 Calibration ID: 75254

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
cis-1,4-Dichloro-2-butene	0.2277 0.1836	0.1741 0.1878	0.1789 +++++	0.1687	0.1818	Ave		0.186 1				10.4		15.0			
1,2,3-Trimethylbenzene	+++++ 2.0851	2.0001 2.1451	2.0876 +++++	2.1769	2.0768	Ave		2.095 3				2.9		15.0			
1,3,5-Trichlorobenzene	+++++ 0.6840	0.6605 0.7132	0.6572 +++++	0.7022	0.6815	Ave		0.683 1				3.2		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 597846

SDG No.: _____

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2022 11:59 Calibration End Date: 12/28/2022 14:33 Calibration ID: 75254

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-597846/12	MS1_4150.D
Level 2	STD2 280-597846/13	MS1_4151.D
Level 3	STD5 280-597846/14	MS1_4152.D
Level 4	STD10 280-597846/15	MS1_4153.D
Level 5	STD50 280-597846/16	MS1_4154.D
Level 6	STD75 280-597846/17	MS1_4155.D
Level 7	STD100 280-597846/18	MS1_4156.D
Level 8	STD200 280-597846/19	MS1_4157.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethanol	FB	Ave	++++ 525295	16838 699579	34363 ++++	67025	344891	++++ 4500	120 6000	300 ++++	600	3000
Isopropyl alcohol	FB	Ave	++++ 436215	11014 587065	29048 ++++	58137	273321	++++ 750	20.0 1000	50.0 ++++	100	500
Acetonitrile	FB	Ave	++++ 946507	31715 1264946	73561 ++++	131529	619753	++++ 750	20.0 1000	50.0 ++++	100	500
Isopropyl ether	FB	Ave	6491 427749	9484 605197	25057 ++++	56708	264023	1.00 75.0	2.00 100	5.00 ++++	10.0	50.0
Chloroprene	FB	Ave	11169 828424	20908 1161144	47410 ++++	102243	508709	1.00 75.0	2.00 100	5.00 ++++	10.0	50.0
Tert-butyl ethyl ether	FB	Ave	22342 1593718	38394 2255355	99500 ++++	206759	1012144	1.00 75.0	2.00 100	5.00 ++++	10.0	50.0
Ethyl acetate	FB	Lin2	23225 1270077	34539 1749485	88229 ++++	165987	826062	2.00 150	4.00 200	10.0 ++++	20.0	100
Propionitrile	FB	Ave	15718 1016428	26792 1362592	65036 ++++	133723	661883	10.0 750	20.0 1000	50.0 ++++	100	500
Methacrylonitrile	FB	Ave	61798 3936223	96781 5376077	262455 ++++	523336	2556941	10.0 750	20.0 1000	50.0 ++++	100	500
Tert-amyl methyl ether	FB	Ave	21660 1480658	35592 2065396	91801 ++++	181024	936157	1.00 75.0	2.00 100	5.00 ++++	10.0	50.0
n-Butanol	FB	Ave	5369 431191	8295 611017	22686 ++++	45281	270310	25.0 1875	50.0 2500	125 ++++	250	1250
Methyl methacrylate	FB	Ave	5388 320989	7929 448949	19778 ++++	39696	205154	2.00 150	4.00 200	10.0 ++++	20.0	100
2-Nitropropane	FB	Lin1	4678 284013	6956 397485	14807 ++++	28794	172456	2.00 150	4.00 200	10.0 ++++	20.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 597846

SDG No.: _____

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/28/2022 11:59 Calibration End Date: 12/28/2022 14:33 Calibration ID: 75254

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
cis-1,4-Dichloro-2-butene	DCBd 4	Ave	6011	8859	22325	42020	224325	2.00	4.00	10.0	20.0	100
			350008	490419	+++++			150	200	+++++		
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++	50883	130272	271119	1281572	+++++	2.00	5.00	10.0	50.0
			1987881	2801548	+++++			75.0	100	+++++		
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++	16804	41012	87460	420533	+++++	2.00	5.00	10.0	50.0
			652054	931398	+++++			75.0	100	+++++		

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4150.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 28-Dec-2022 11:59:30 ALS Bottle#: 1 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD1
 Operator ID: SUNLEEC Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Dec-2022 11:05:58 Calib Date: 28-Dec-2022 14:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4157.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: LW7N

Date: 29-Dec-2022 10:10:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1694553	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	89	391772	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	659913	50.0	50.0	
19 Ethanol	45	3.071	3.071	0.000	95	9981	60.0	83.8	
27 Isopropyl alcohol	45	3.587	3.587	0.000	94	9415	10.0	16.5	
29 Acetonitrile	41	3.727	3.727	0.000	97	20977	10.0	15.5	
41 Isopropyl ether	87	4.551	4.551	0.000	94	6491	1.00	1.17	
42 2-Chloro-1,3-butadiene	53	4.607	4.607	0.000	96	11169	1.00	1.06	
44 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	22342	1.00	1.07	
47 Ethyl acetate	43	5.040	5.040	0.000	99	23225	2.00	2.10	
50 Propionitrile	54	5.082	5.082	0.000	96	15718	10.0	11.5	
52 Methacrylonitrile	41	5.207	5.207	0.000	92	61798	10.0	11.6	
65 Tert-amyl methyl ether	73	5.878	5.878	0.000	85	21660	1.00	1.12	
67 n-Butanol	56	6.227	6.227	0.000	87	5369	25.0	26.3	
72 Methyl methacrylate	100	6.590	6.590	0.000	93	5388	2.00	2.51	
76 2-Nitropropane	41	6.995	6.995	0.000	86	4678	2.00	2.71	
108 cis-1,4-Dichloro-2-butene	53	9.788	9.774	0.014	0	6011	2.00	2.45	
124 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	98	40124	1.00	1.45	
129 1,3,5-Trichlorobenzene	180	12.428	12.414	0.014	96	13949	1.00	1.55	
145 Ethyl acrylate	55		0.000				ND	ND	
146 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00076

Amount Added: 1.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4150.D

Injection Date: 28-Dec-2022 11:59:30

Instrument ID: VMS_MS1

Operator ID: SUNLEEC

Lims ID: STD1

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

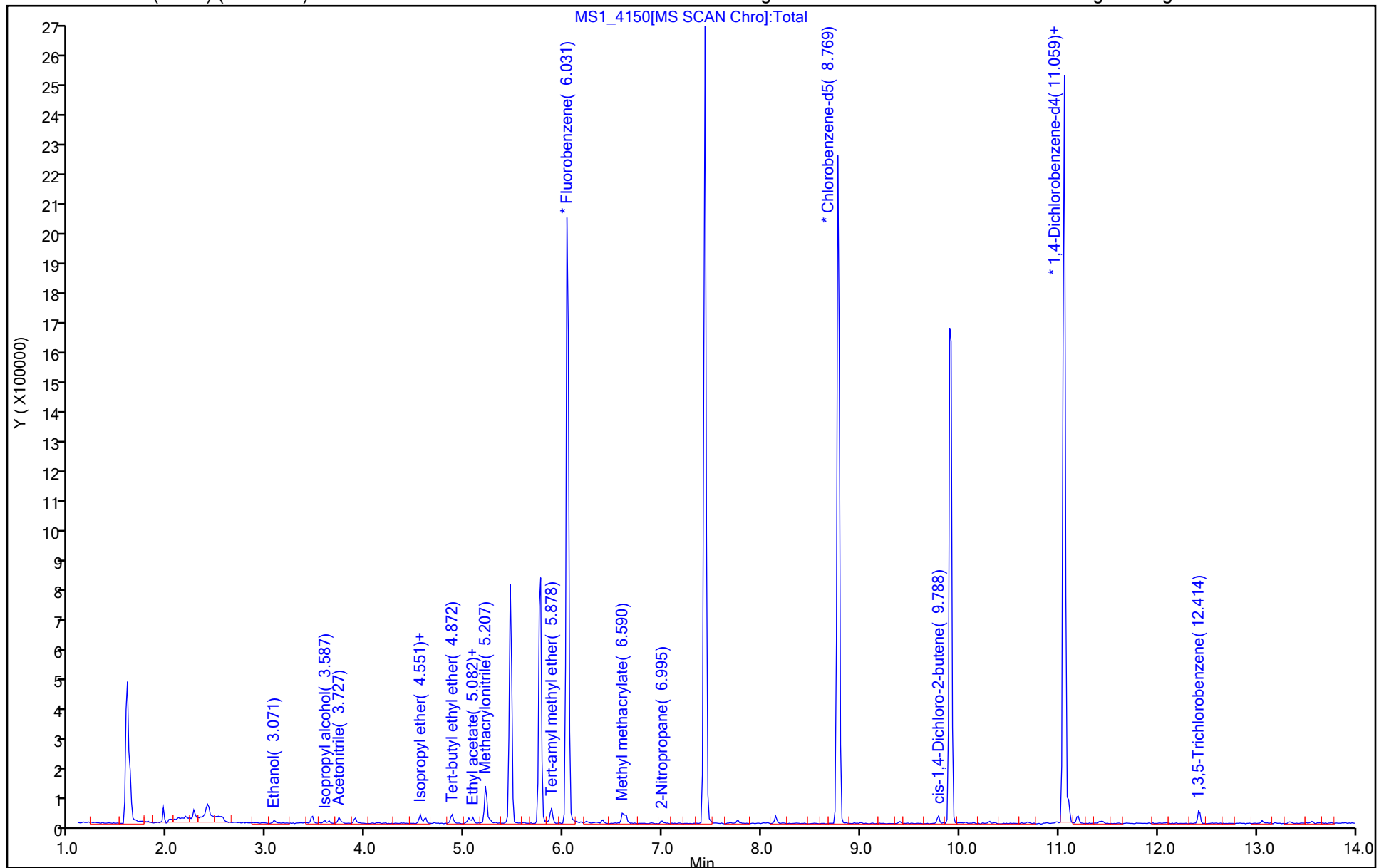
ALS Bottle#: 1

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4151.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 28-Dec-2022 12:21:30 ALS Bottle#: 2 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD2
 Operator ID: SUNLEEC Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Dec-2022 11:05:59 Calib Date: 28-Dec-2022 14:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4157.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: LW7N

Date: 29-Dec-2022 10:11:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1661104	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	88	397548	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	636006	50.0	50.0	
19 Ethanol	45	3.070	3.071	-0.001	99	16838	120.0	144.2	
27 Isopropyl alcohol	45	3.587	3.587	0.000	96	11014	20.0	19.7	
29 Acetonitrile	41	3.727	3.727	0.000	97	31715	20.0	23.8	
41 Isopropyl ether	87	4.551	4.551	0.000	92	9484	2.00	1.74	
42 2-Chloro-1,3-butadiene	53	4.607	4.607	0.000	95	20908	2.00	2.02	
44 Tert-butyl ethyl ether	59	4.872	4.872	0.000	98	38394	2.00	1.88	
47 Ethyl acetate	43	5.040	5.040	0.000	99	34539	4.00	3.57	
50 Propionitrile	54	5.082	5.082	0.000	99	26792	20.0	20.0	
52 Methacrylonitrile	41	5.207	5.207	0.000	94	96781	20.0	18.6	
65 Tert-amyl methyl ether	73	5.878	5.878	0.000	85	35592	2.00	1.89	
67 n-Butanol	56	6.227	6.227	0.000	89	8295	50.0	41.4	
72 Methyl methacrylate	100	6.604	6.590	0.014	89	7929	4.00	3.76	
76 2-Nitropropane	41	6.981	6.995	-0.014	95	6956	4.00	4.03	
108 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	8859	4.00	3.74	
124 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	98	50883	2.00	1.91	
129 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	94	16804	2.00	1.93	
145 Ethyl acrylate	55		0.000				ND	ND	
146 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00076

Amount Added: 2.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4151.D

Injection Date: 28-Dec-2022 12:21:30

Instrument ID: VMS_MS1

Operator ID: SUNLEEC

Lims ID: STD2

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

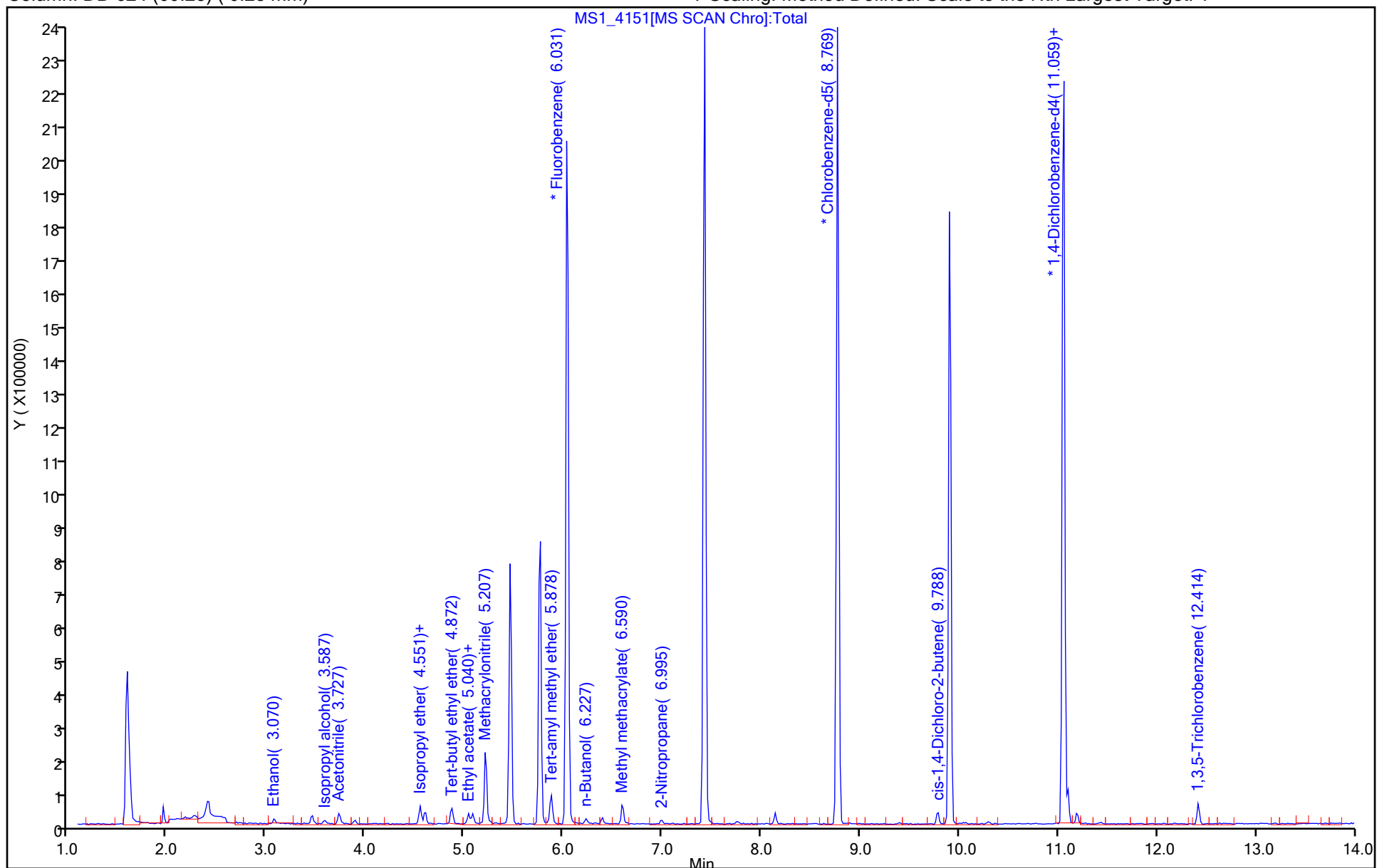
ALS Bottle#: 2

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4152.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 28-Dec-2022 12:43:30 ALS Bottle#: 3 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5
 Operator ID: SUNLEEC Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Dec-2022 11:06:01 Calib Date: 28-Dec-2022 14:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4157.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: LW7N

Date: 29-Dec-2022 10:11:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1675413	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	90	392167	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	98	624037	50.0	50.0	
19 Ethanol	45	3.071	3.071	0.000	96	34363	300.0	291.9	
27 Isopropyl alcohol	45	3.587	3.587	0.000	97	29048	50.0	51.5	
29 Acetonitrile	41	3.727	3.727	0.000	99	73561	50.0	54.8	
41 Isopropyl ether	87	4.551	4.551	0.000	90	25057	5.00	4.56	
42 2-Chloro-1,3-butadiene	53	4.607	4.607	0.000	95	47410	5.00	4.53	
44 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	99500	5.00	4.83	
47 Ethyl acetate	43	5.040	5.040	0.000	100	88229	10.0	10.2	
50 Propionitrile	54	5.082	5.082	0.000	97	65036	50.0	48.1	
52 Methacrylonitrile	41	5.207	5.207	0.000	94	262455	50.0	50.0	
65 Tert-amyl methyl ether	73	5.878	5.878	0.000	93	91801	5.00	4.82	
67 n-Butanol	56	6.227	6.227	0.000	92	22686	125.0	112.4	
72 Methyl methacrylate	100	6.590	6.590	0.000	89	19778	10.0	9.30	
76 2-Nitropropane	41	6.995	6.995	0.000	93	14807	10.0	8.32	
108 cis-1,4-Dichloro-2-butene	53	9.788	9.774	0.014	0	22325	10.0	9.61	
124 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	130272	5.00	4.98	
129 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	94	41012	5.00	4.81	
146 t-Amyl alcohol	1		0.000				ND	ND	
145 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00076

Amount Added: 5.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4152.D

Injection Date: 28-Dec-2022 12:43:30

Instrument ID: VMS_MS1

Operator ID: SUNLEEC

Lims ID: STD5

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

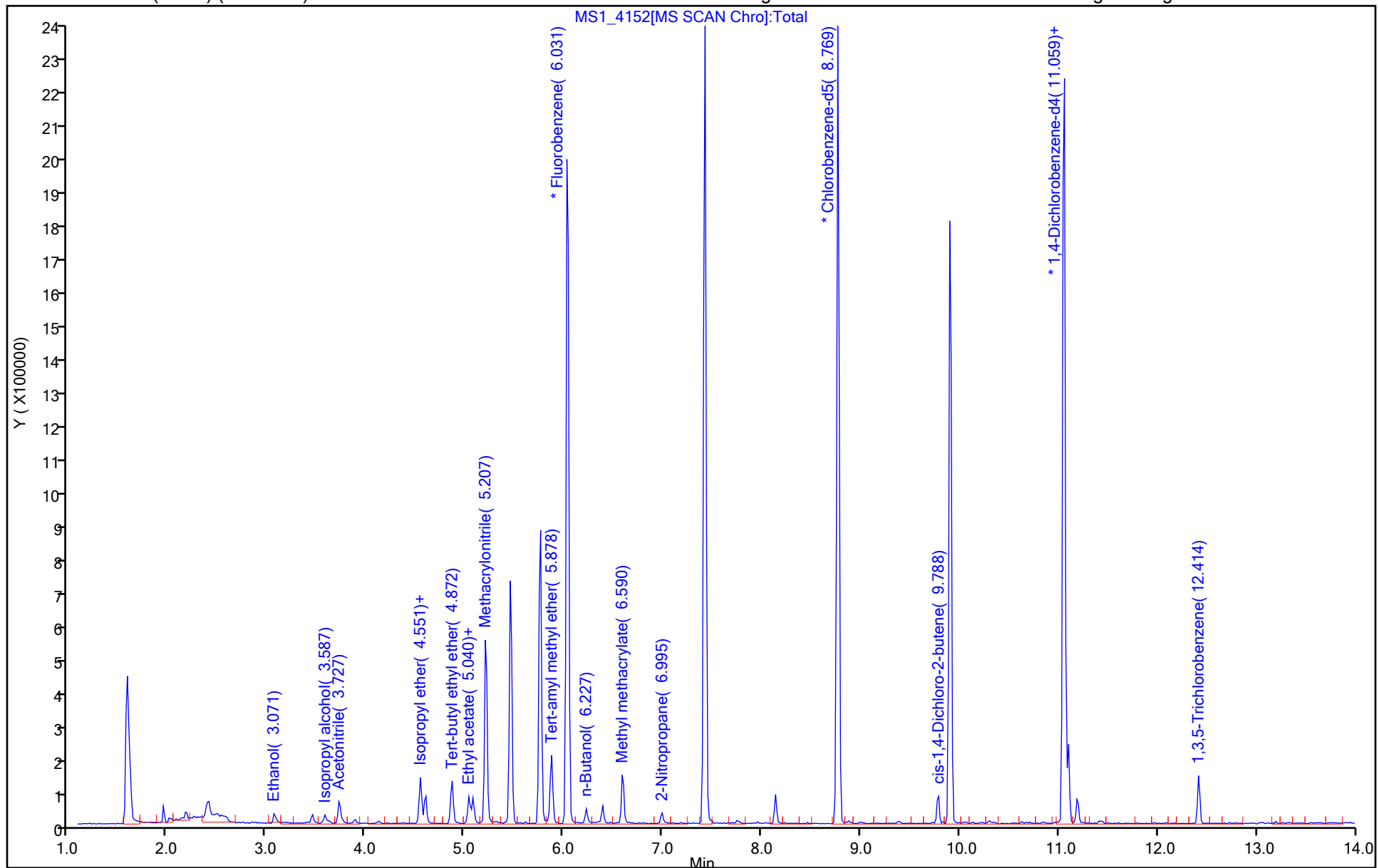
ALS Bottle#: 3

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4153.D
 Lims ID: STD10
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 28-Dec-2022 13:05:30 ALS Bottle#: 4 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD10
 Operator ID: SUNLEEC Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Dec-2022 11:06:02 Calib Date: 28-Dec-2022 14:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4157.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: LW7N

Date: 29-Dec-2022 10:11:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1665925	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	89	383949	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	622730	50.0	50.0	
19 Ethanol	45	3.071	3.071	0.000	99	67025	600.0	572.5	
27 Isopropyl alcohol	45	3.587	3.587	0.000	97	58137	100.0	103.6	
29 Acetonitrile	41	3.727	3.727	0.000	99	131529	100.0	98.6	
41 Isopropyl ether	87	4.551	4.551	0.000	91	56708	10.0	10.4	
42 2-Chloro-1,3-butadiene	53	4.607	4.607	0.000	95	102243	10.0	9.83	
44 Tert-butyl ethyl ether	59	4.872	4.872	0.000	98	206759	10.0	10.1	
47 Ethyl acetate	43	5.040	5.040	0.000	100	165987	20.0	19.9	
50 Propionitrile	54	5.082	5.082	0.000	99	133723	100.0	99.4	
52 Methacrylonitrile	41	5.207	5.207	0.000	94	523336	100.0	100.2	
65 Tert-amyl methyl ether	73	5.878	5.878	0.000	86	181024	10.0	9.56	
67 n-Butanol	56	6.227	6.227	0.000	93	45281	250.0	225.6	
72 Methyl methacrylate	100	6.604	6.590	0.014	91	39696	20.0	18.8	
76 2-Nitropropane	41	6.995	6.995	0.000	91	28794	20.0	16.1	
108 cis-1,4-Dichloro-2-butene	53	9.788	9.774	0.014	0	42020	20.0	18.1	
124 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	271119	10.0	10.4	
129 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	95	87460	10.0	10.3	
146 t-Amyl alcohol	1		0.000				ND	ND	
145 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00076

Amount Added: 10.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4153.D

Injection Date: 28-Dec-2022 13:05:30

Instrument ID: VMS_MS1

Operator ID: SUNLEEC

Lims ID: STD10

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

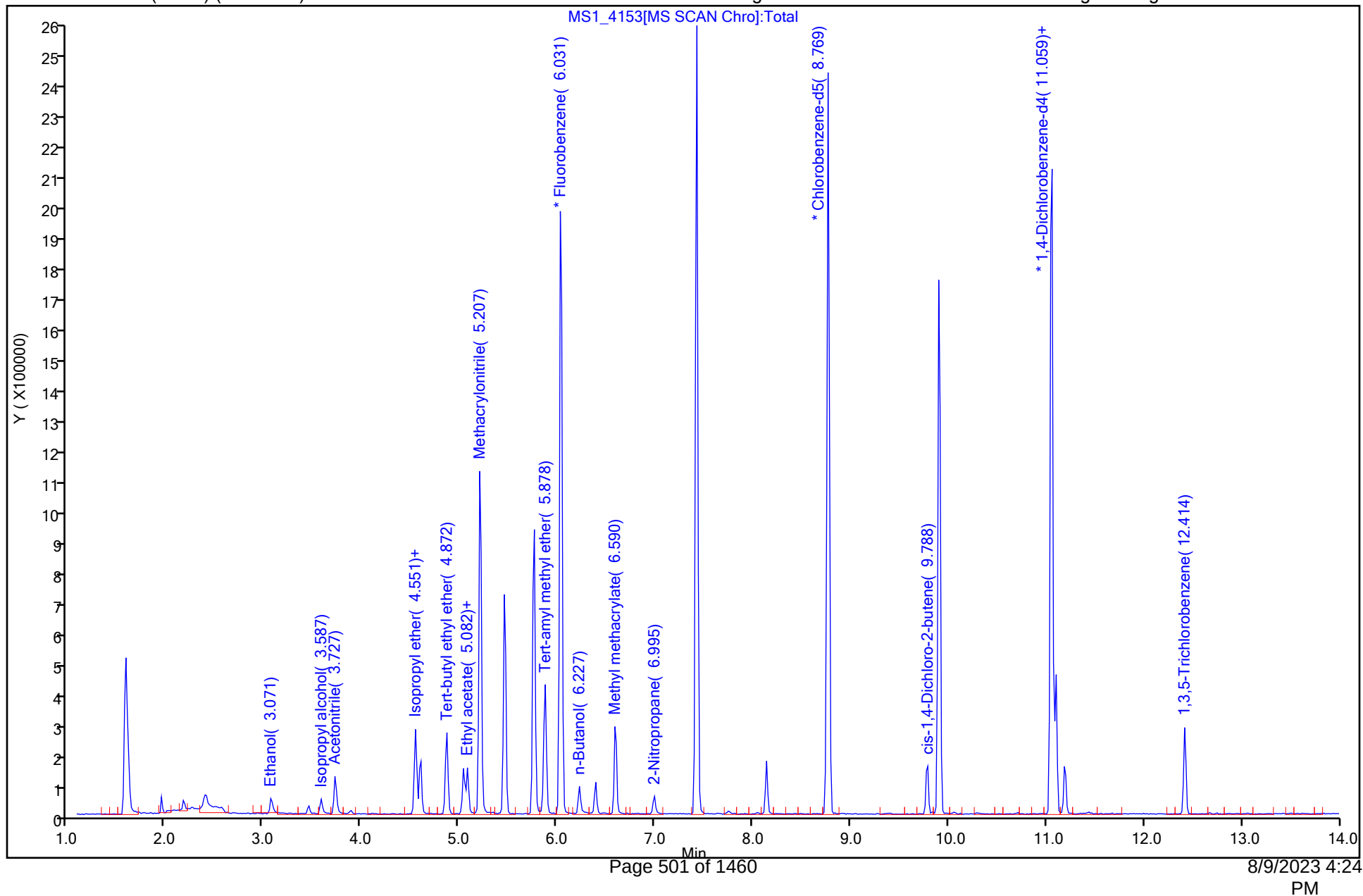
ALS Bottle#: 4

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4154.D
 Lims ID: STD50
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 28-Dec-2022 13:27:30 ALS Bottle#: 5 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD50
 Operator ID: SUNLEEC Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Dec-2022 11:06:03 Calib Date: 28-Dec-2022 14:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4157.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: LW7N

Date: 29-Dec-2022 10:11:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1694109	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	89	387166	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	617083	50.0	50.0	
19 Ethanol	45	3.070	3.071	-0.001	100	344891	3000.0	2896.9	
27 Isopropyl alcohol	45	3.587	3.587	0.000	97	273321	500.0	479.1	
29 Acetonitrile	41	3.727	3.727	0.000	99	619753	500.0	456.9	
41 Isopropyl ether	87	4.551	4.551	0.000	92	264023	50.0	47.6	
42 2-Chloro-1,3-butadiene	53	4.607	4.607	0.000	95	508709	50.0	48.1	
44 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	1012144	50.0	48.6	
47 Ethyl acetate	43	5.040	5.040	0.000	100	826062	100.0	100.4	
50 Propionitrile	54	5.082	5.082	0.000	98	661883	500.0	483.7	
52 Methacrylonitrile	41	5.207	5.207	0.000	94	2556941	500.0	481.4	
65 Tert-amyl methyl ether	73	5.878	5.878	0.000	88	936157	50.0	48.6	
67 n-Butanol	56	6.227	6.227	0.000	92	270310	1250.0	1324.3	
72 Methyl methacrylate	100	6.590	6.590	0.000	91	205154	100.0	95.4	
76 2-Nitropropane	41	6.995	6.995	0.000	96	172456	100.0	94.2	
108 cis-1,4-Dichloro-2-butene	53	9.788	9.774	0.014	0	224325	100.0	97.7	
124 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	1281572	50.0	49.6	
129 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	95	420533	50.0	49.9	
145 Ethyl acrylate	55		0.000				ND	ND	
146 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00076

Amount Added: 50.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4154.D

Injection Date: 28-Dec-2022 13:27:30

Instrument ID: VMS_MS1

Operator ID: SUNLEEC

Lims ID: STD50

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

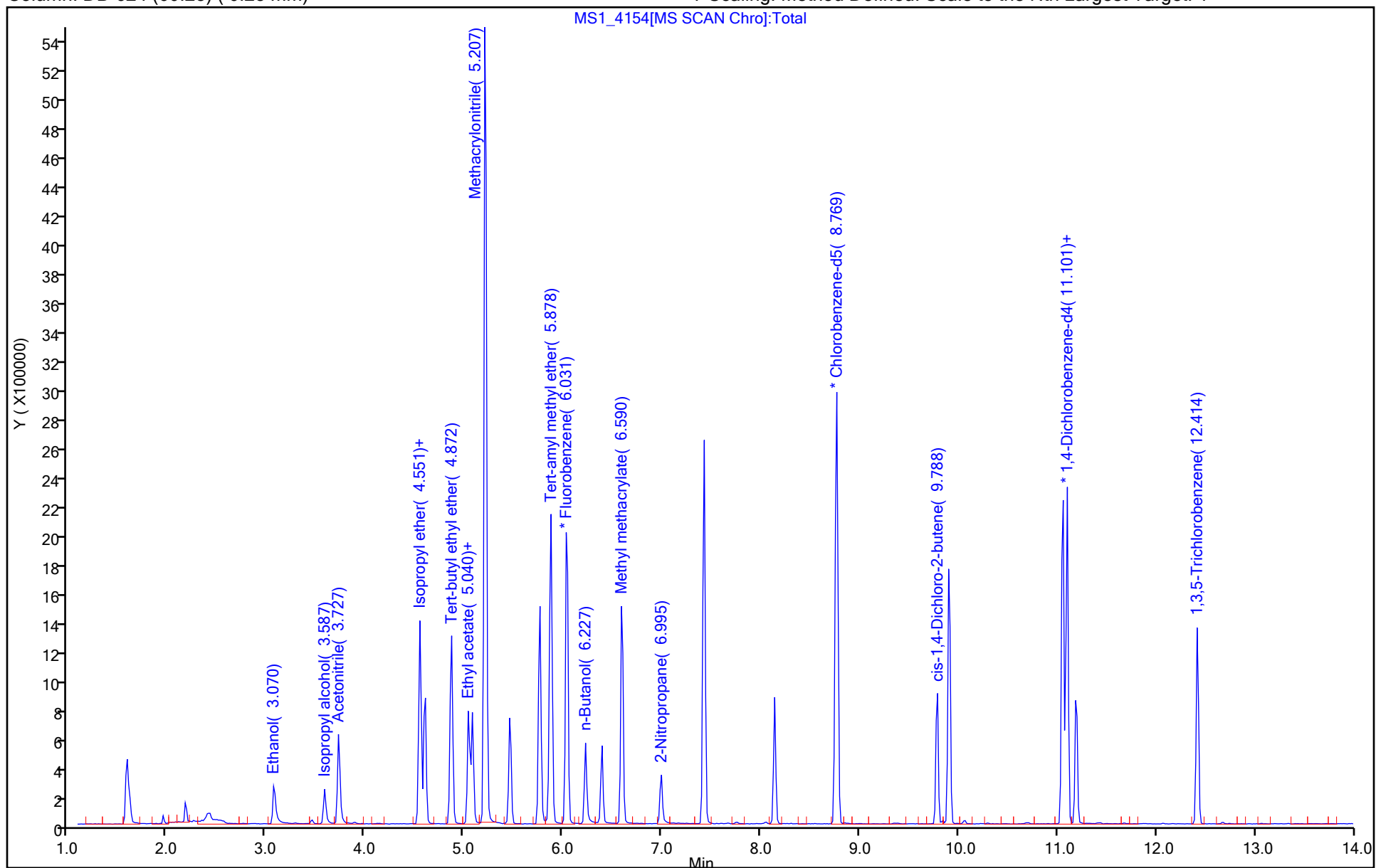
ALS Bottle#: 5

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4155.D
 Lims ID: STD75
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 28-Dec-2022 13:49:30 ALS Bottle#: 6 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD75
 Operator ID: SUNLEEC Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Dec-2022 11:06:03 Calib Date: 28-Dec-2022 14:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4157.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: LW7N

Date: 29-Dec-2022 10:12:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1721115	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	89	399511	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	635571	50.0	50.0	
19 Ethanol	45	3.071	3.071	0.000	99	525295	4500.0	4343.0	
27 Isopropyl alcohol	45	3.587	3.587	0.000	97	436215	750.0	752.6	
29 Acetonitrile	41	3.727	3.727	0.000	99	946507	750.0	686.8	
41 Isopropyl ether	87	4.551	4.551	0.000	92	427749	75.0	75.8	
42 2-Chloro-1,3-butadiene	53	4.607	4.607	0.000	95	828424	75.0	77.1	
44 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	1593718	75.0	75.3	
47 Ethyl acetate	43	5.040	5.040	0.000	100	1270077	150.0	152.3	
50 Propionitrile	54	5.082	5.082	0.000	98	1016428	750.0	731.1	
52 Methacrylonitrile	41	5.207	5.207	0.000	94	3936223	750.0	729.4	
65 Tert-amyl methyl ether	73	5.878	5.878	0.000	87	1480658	75.0	75.7	
67 n-Butanol	56	6.227	6.227	0.000	92	431191	1875.0	2079.3	
72 Methyl methacrylate	100	6.590	6.590	0.000	92	320989	150.0	147.0	
76 2-Nitropropane	41	6.995	6.995	0.000	98	284013	150.0	152.5	
108 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	350008	150.0	148.0	
124 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	98	1987881	75.0	74.6	
129 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	96	652054	75.0	75.1	
145 Ethyl acrylate	55		0.000				ND	ND	
146 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00076

Amount Added: 75.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4155.D

Injection Date: 28-Dec-2022 13:49:30

Instrument ID: VMS_MS1

Operator ID: SUNLEEC

Lims ID: STD75

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

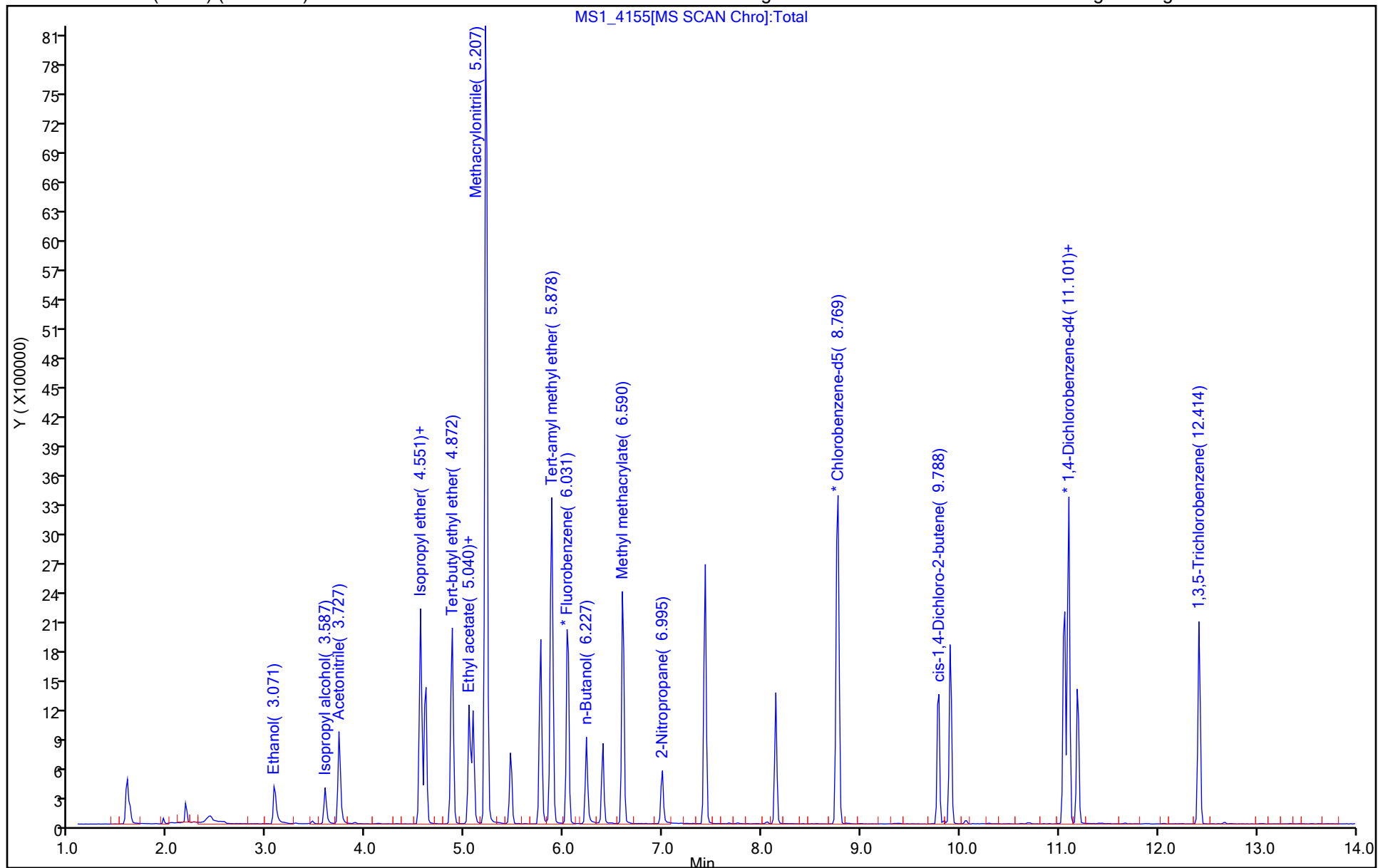
ALS Bottle#: 6

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4156.D
 Lims ID: STD100
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 28-Dec-2022 14:11:30 ALS Bottle#: 7 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD100
 Operator ID: SUNLEEC Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Dec-2022 11:06:04 Calib Date: 28-Dec-2022 14:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4157.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: LW7N

Date: 29-Dec-2022 10:13:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1764613	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	89	414547	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	653011	50.0	50.0	
19 Ethanol	45	3.070	3.071	-0.001	99	699579	6000.0	5641.4	
27 Isopropyl alcohol	45	3.587	3.587	0.000	97	587065	1000.0	987.9	
29 Acetonitrile	41	3.727	3.727	0.000	99	1264946	1000.0	895.3	
41 Isopropyl ether	87	4.551	4.551	0.000	92	605197	100.0	104.6	
42 2-Chloro-1,3-butadiene	53	4.607	4.607	0.000	95	1161144	100.0	105.4	
44 Tert-butyl ethyl ether	59	4.872	4.872	0.000	98	2255355	100.0	103.9	
47 Ethyl acetate	43	5.040	5.040	0.000	100	1749485	200.0	204.9	
50 Propionitrile	54	5.082	5.082	0.000	98	1362592	1000.0	956.0	
52 Methacrylonitrile	41	5.207	5.207	0.000	94	5376077	1000.0	971.6	
65 Tert-amyl methyl ether	73	5.878	5.878	0.000	88	2065396	100.0	103.0	
67 n-Butanol	56	6.227	6.227	0.000	93	611017	2500.0	2873.8	
72 Methyl methacrylate	100	6.590	6.590	0.000	91	448949	200.0	200.5	
76 2-Nitropropane	41	6.995	6.995	0.000	97	397485	200.0	208.1	
108 cis-1,4-Dichloro-2-butene	53	9.788	9.774	0.014	0	490419	200.0	201.8	
124 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	2801548	100.0	102.4	
129 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	96	931398	100.0	104.4	
145 Ethyl acrylate	55		0.000				ND	ND	
146 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00076

Amount Added: 100.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4156.D

Injection Date: 28-Dec-2022 14:11:30

Instrument ID: VMS_MS1

Operator ID: SUNLEEC

Lims ID: STD100

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

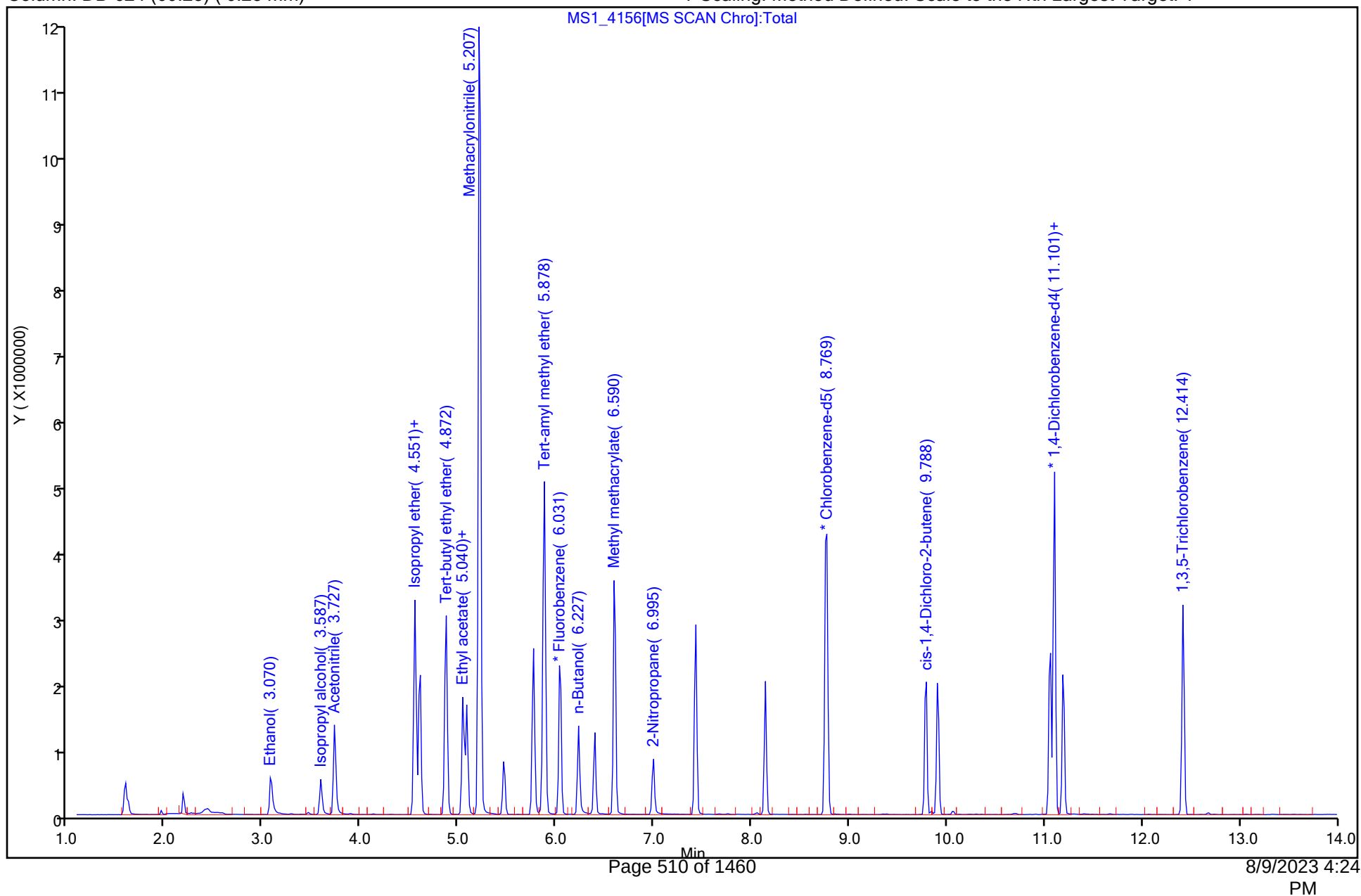
ALS Bottle#: 7

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4157.D
 Lims ID: STD200
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 28-Dec-2022 14:33:30 ALS Bottle#: 8 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD200
 Operator ID: SUNLEEC Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Dec-2022 11:06:05 Calib Date: 28-Dec-2022 14:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4157.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: LW7N

Date: 29-Dec-2022 10:13:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1818385	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	91	422708	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	682088	50.0	50.0	
19 Ethanol	45	3.084	3.071	0.013	100	1456995	6000.0	11402	
27 Isopropyl alcohol	45	3.587	3.587	0.000	97	1224003	1000.0	1998.8	
29 Acetonitrile	41	3.727	3.727	0.000	99	2537526	1000.0	1742.9	
41 Isopropyl ether	87	4.551	4.551	0.000	92	1112718	100.0	186.7	
42 2-Chloro-1,3-butadiene	53	4.607	4.607	0.000	95	2290784	100.0	201.9	
44 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	4343521	100.0	194.2	
47 Ethyl acetate	43	5.040	5.040	0.000	100	3504759	200.0	399.0	
50 Propionitrile	54	5.081	5.082	-0.001	98	2734341	1000.0	1861.7	
52 Methacrylonitrile	41	5.207	5.207	0.000	93	10534335	1000.0	1847.6	
65 Tert-amyl methyl ether	73	5.878	5.878	0.000	94	4118930	100.0	199.3	
67 n-Butanol	56	6.227	6.227	0.000	93	1326272	2500.0	6053.4	
72 Methyl methacrylate	100	6.590	6.590	0.000	91	919424	200.0	398.5	
76 2-Nitropropane	41	6.995	6.995	0.000	98	888741	200.0	451.4	
108 cis-1,4-Dichloro-2-butene	53	9.788	9.774	0.014	0	1011425	200.0	398.5	
124 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	5426476	100.0	189.8	
129 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	96	1833082	100.0	196.7	
146 t-Amyl alcohol	1		0.000				ND	ND	
145 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00076

Amount Added: 100.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4157.D

Injection Date: 28-Dec-2022 14:33:30

Instrument ID: VMS_MS1

Operator ID: SUNLEEC

Lims ID: STD200

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

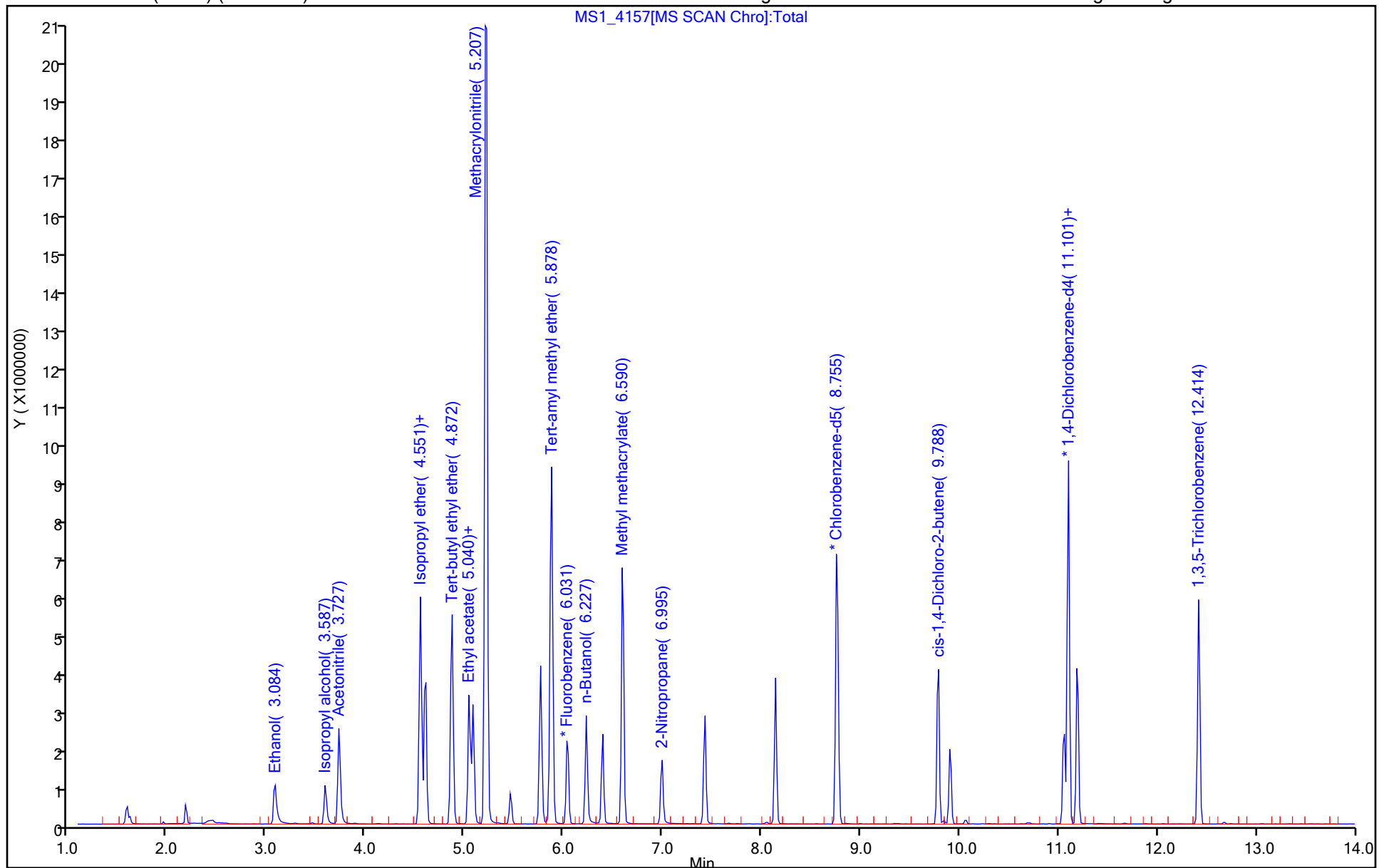
ALS Bottle#: 8

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Calibration

/ Ethanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

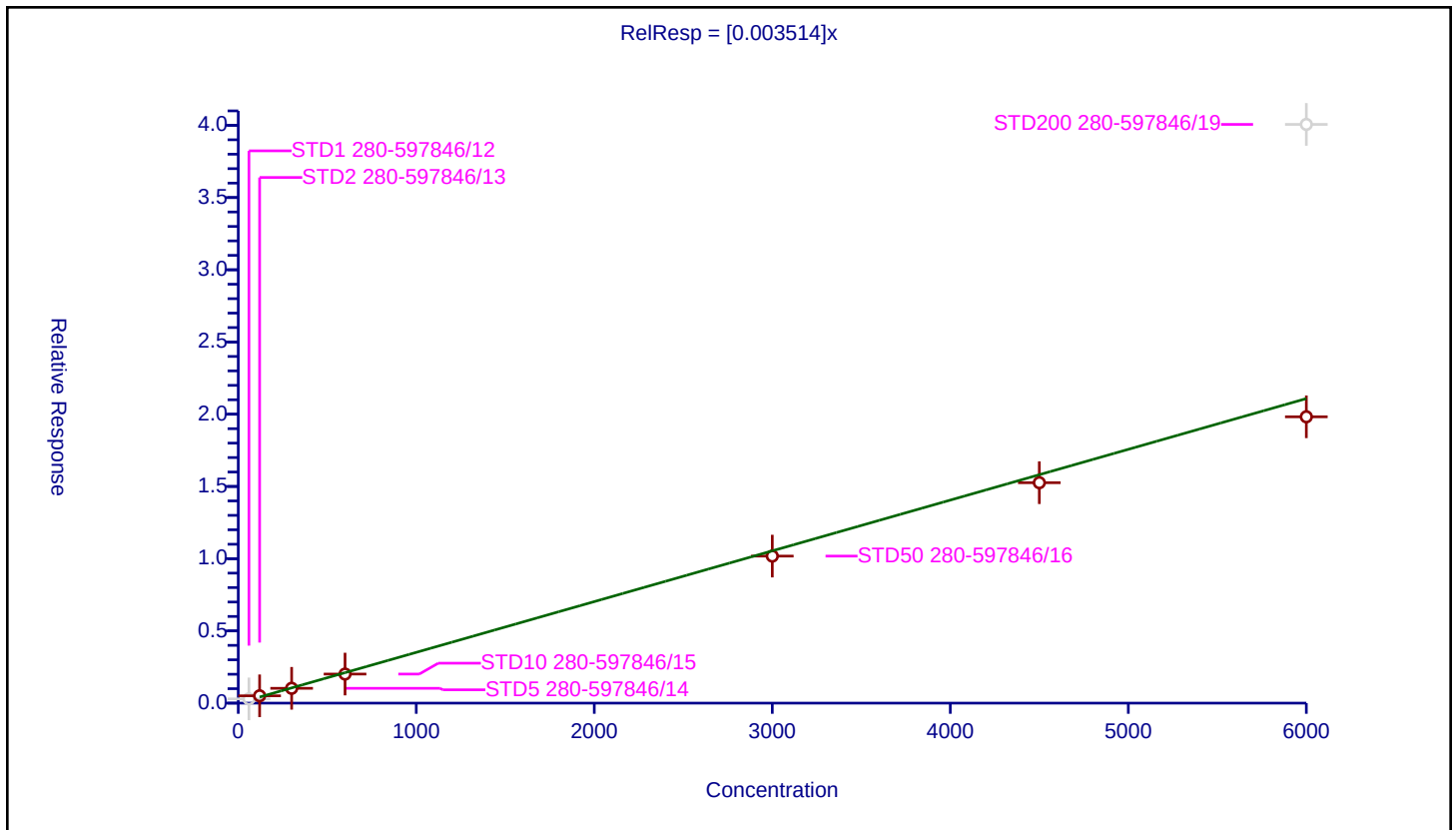
Curve Coefficients

Intercept: 0
 Slope: 0.003514

Error Coefficients

Standard Error: 422000
 Relative Standard Error: 10.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	60.0	0.294502	50.0	1694553.0	0.004908	N
2	STD2 280-597846/13	120.0	0.506832	50.0	1661104.0	0.004224	Y
3	STD5 280-597846/14	300.0	1.025508	50.0	1675413.0	0.003418	Y
4	STD10 280-597846/15	600.0	2.011645	50.0	1665925.0	0.003353	Y
5	STD50 280-597846/16	3000.0	10.179127	50.0	1694109.0	0.003393	Y
6	STD75 280-597846/17	4500.0	15.260311	50.0	1721115.0	0.003391	Y
7	STD100 280-597846/18	6000.0	19.822448	50.0	1764613.0	0.003304	Y
8	STD200 280-597846/19	6000.0	40.062885	50.0	1818385.0	0.006677	N



Calibration

/ Isopropyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

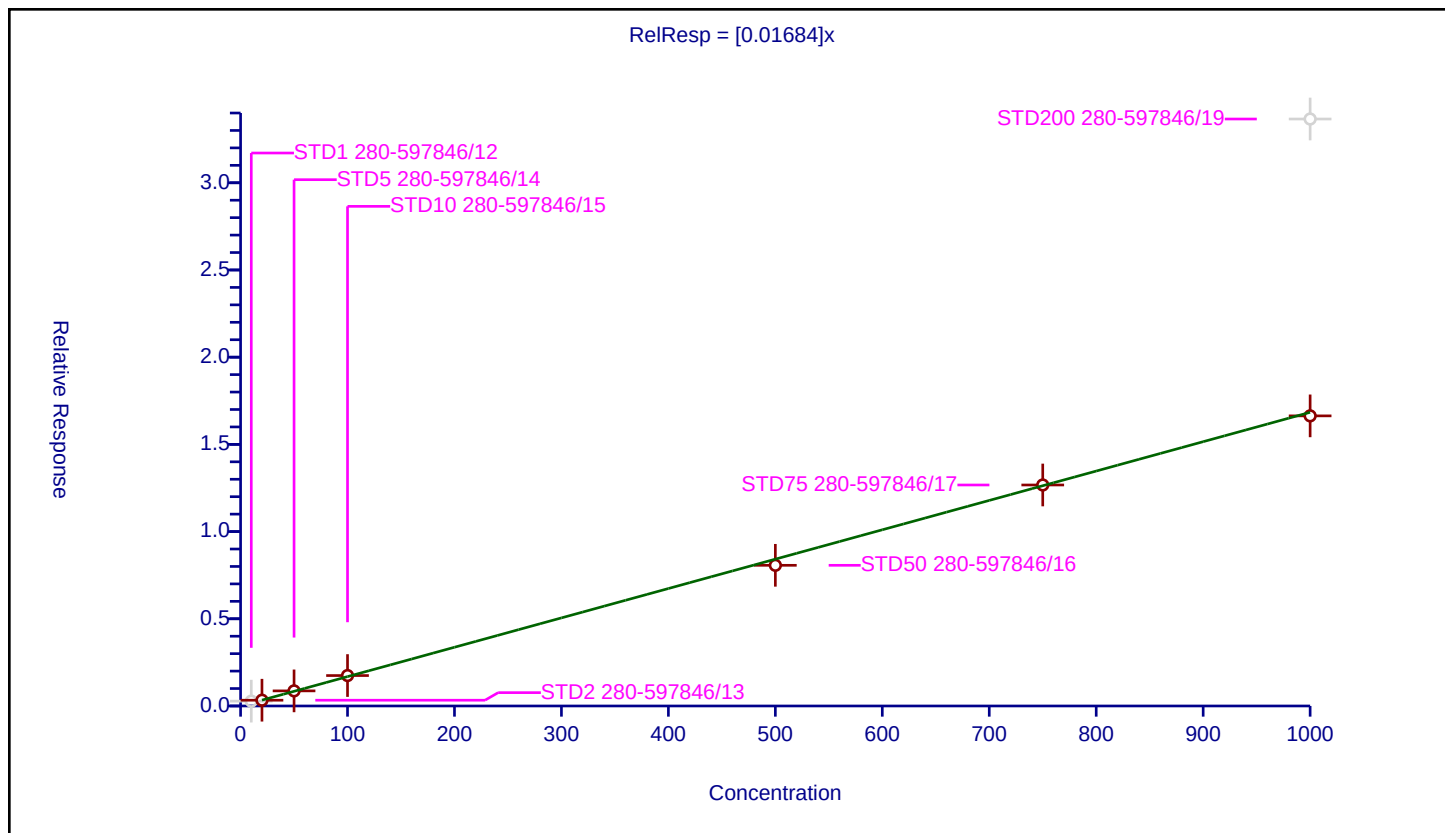
Curve Coefficients

Intercept: 0
Slope: 0.01684

Error Coefficients

Standard Error: 350000
Relative Standard Error: 2.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	10.0	0.277802	50.0	1694553.0	0.02778	N
2	STD2 280-597846/13	20.0	0.331527	50.0	1661104.0	0.016576	Y
3	STD5 280-597846/14	50.0	0.866891	50.0	1675413.0	0.017338	Y
4	STD10 280-597846/15	100.0	1.744886	50.0	1665925.0	0.017449	Y
5	STD50 280-597846/16	500.0	8.066807	50.0	1694109.0	0.016134	Y
6	STD75 280-597846/17	750.0	12.672454	50.0	1721115.0	0.016897	Y
7	STD100 280-597846/18	1000.0	16.634384	50.0	1764613.0	0.016634	Y
8	STD200 280-597846/19	1000.0	33.656321	50.0	1818385.0	0.033656	N



Calibration

/ Acetonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

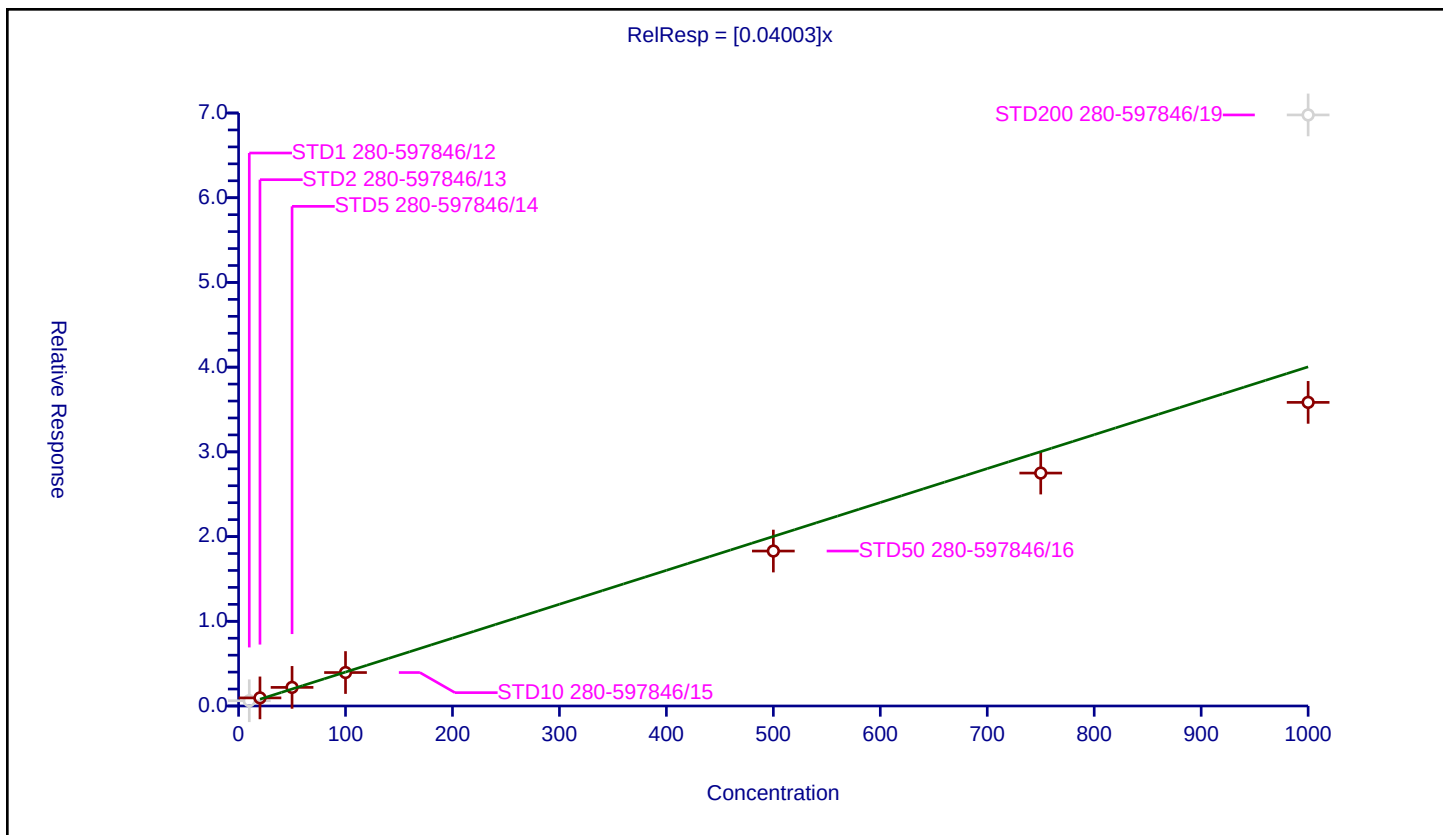
Curve Coefficients

Intercept: 0
Slope: 0.04003

Error Coefficients

Standard Error: 762000
Relative Standard Error: 12.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	10.0	0.618954	50.0	1694553.0	0.061895	N
2	STD2 280-597846/13	20.0	0.954636	50.0	1661104.0	0.047732	Y
3	STD5 280-597846/14	50.0	2.195309	50.0	1675413.0	0.043906	Y
4	STD10 280-597846/15	100.0	3.947627	50.0	1665925.0	0.039476	Y
5	STD50 280-597846/16	500.0	18.291415	50.0	1694109.0	0.036583	Y
6	STD75 280-597846/17	750.0	27.496913	50.0	1721115.0	0.036663	Y
7	STD100 280-597846/18	1000.0	35.842023	50.0	1764613.0	0.035842	Y
8	STD200 280-597846/19	1000.0	69.774168	50.0	1818385.0	0.069774	N



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

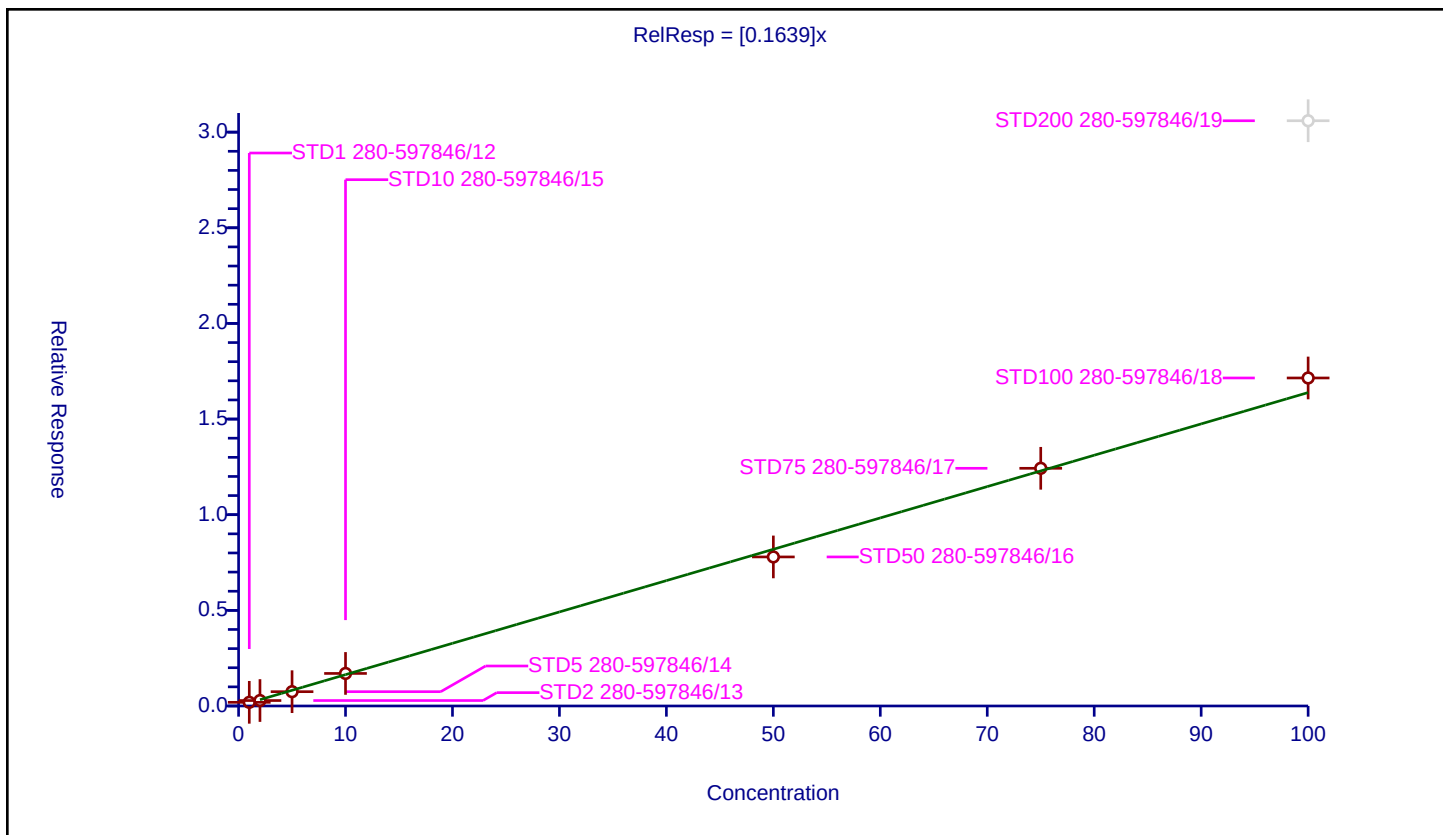
Curve Coefficients

Intercept: 0
 Slope: 0.1639

Error Coefficients

Standard Error: 322000
 Relative Standard Error: 9.9
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	1.0	0.191525	50.0	1694553.0	0.191525	Y
2	STD2 280-597846/13	2.0	0.285473	50.0	1661104.0	0.142736	Y
3	STD5 280-597846/14	5.0	0.747786	50.0	1675413.0	0.149557	Y
4	STD10 280-597846/15	10.0	1.701997	50.0	1665925.0	0.1702	Y
5	STD50 280-597846/16	50.0	7.792385	50.0	1694109.0	0.155848	Y
6	STD75 280-597846/17	75.0	12.426508	50.0	1721115.0	0.165687	Y
7	STD100 280-597846/18	100.0	17.148151	50.0	1764613.0	0.171482	Y
8	STD200 280-597846/19	100.0	30.596326	50.0	1818385.0	0.305963	N



Calibration

/ 2-Chloro-1,3-butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

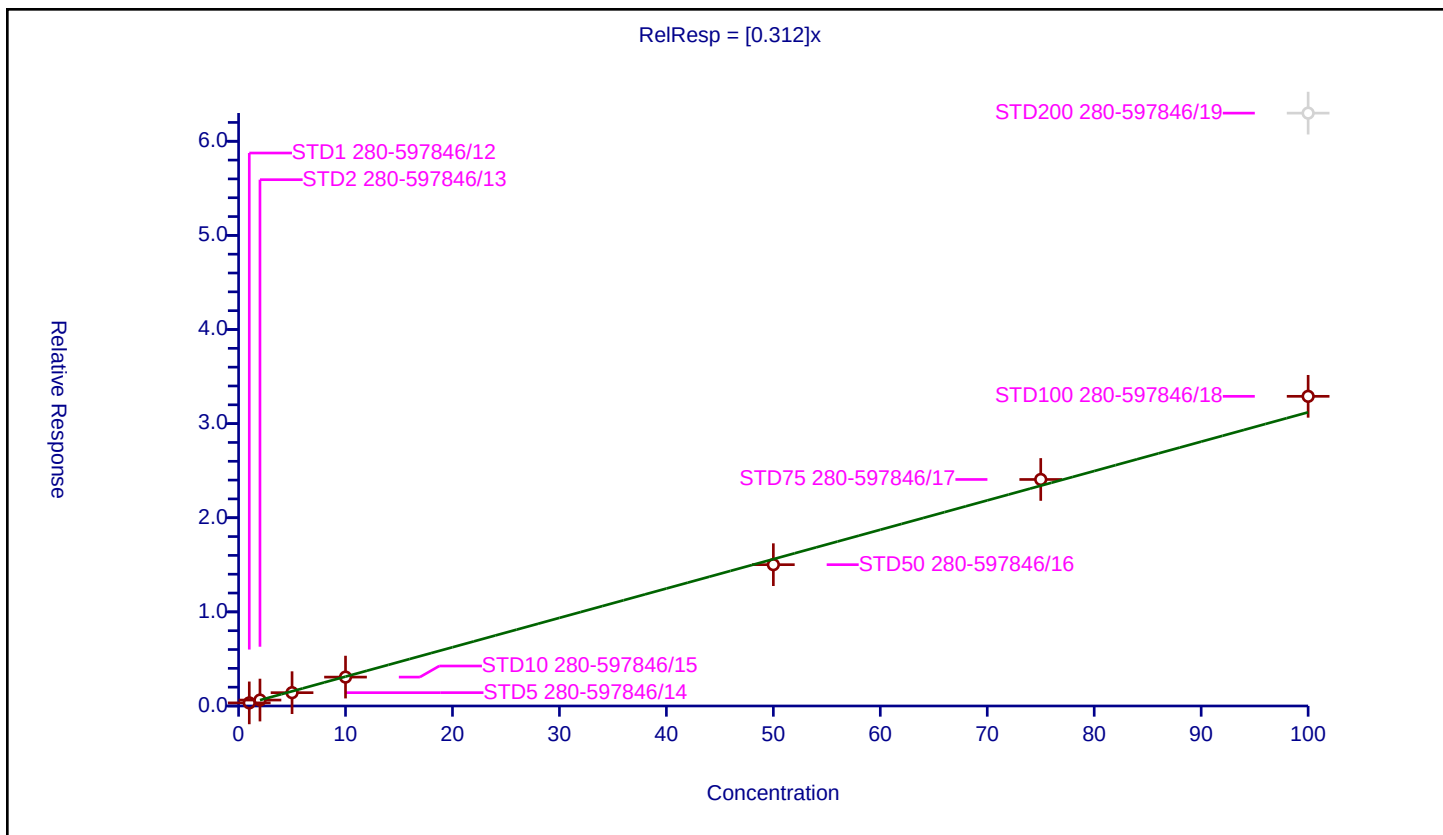
Curve Coefficients

Intercept: 0
 Slope: 0.312

Error Coefficients

Standard Error: 620000
 Relative Standard Error: 5.4
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	1.0	0.329556	50.0	1694553.0	0.329556	Y
2	STD2 280-597846/13	2.0	0.62934	50.0	1661104.0	0.31467	Y
3	STD5 280-597846/14	5.0	1.414875	50.0	1675413.0	0.282975	Y
4	STD10 280-597846/15	10.0	3.068656	50.0	1665925.0	0.306866	Y
5	STD50 280-597846/16	50.0	15.014058	50.0	1694109.0	0.300281	Y
6	STD75 280-597846/17	75.0	24.066492	50.0	1721115.0	0.320887	Y
7	STD100 280-597846/18	100.0	32.900812	50.0	1764613.0	0.329008	Y
8	STD200 280-597846/19	100.0	62.989521	50.0	1818385.0	0.629895	N



Calibration

/ Tert-butyl ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

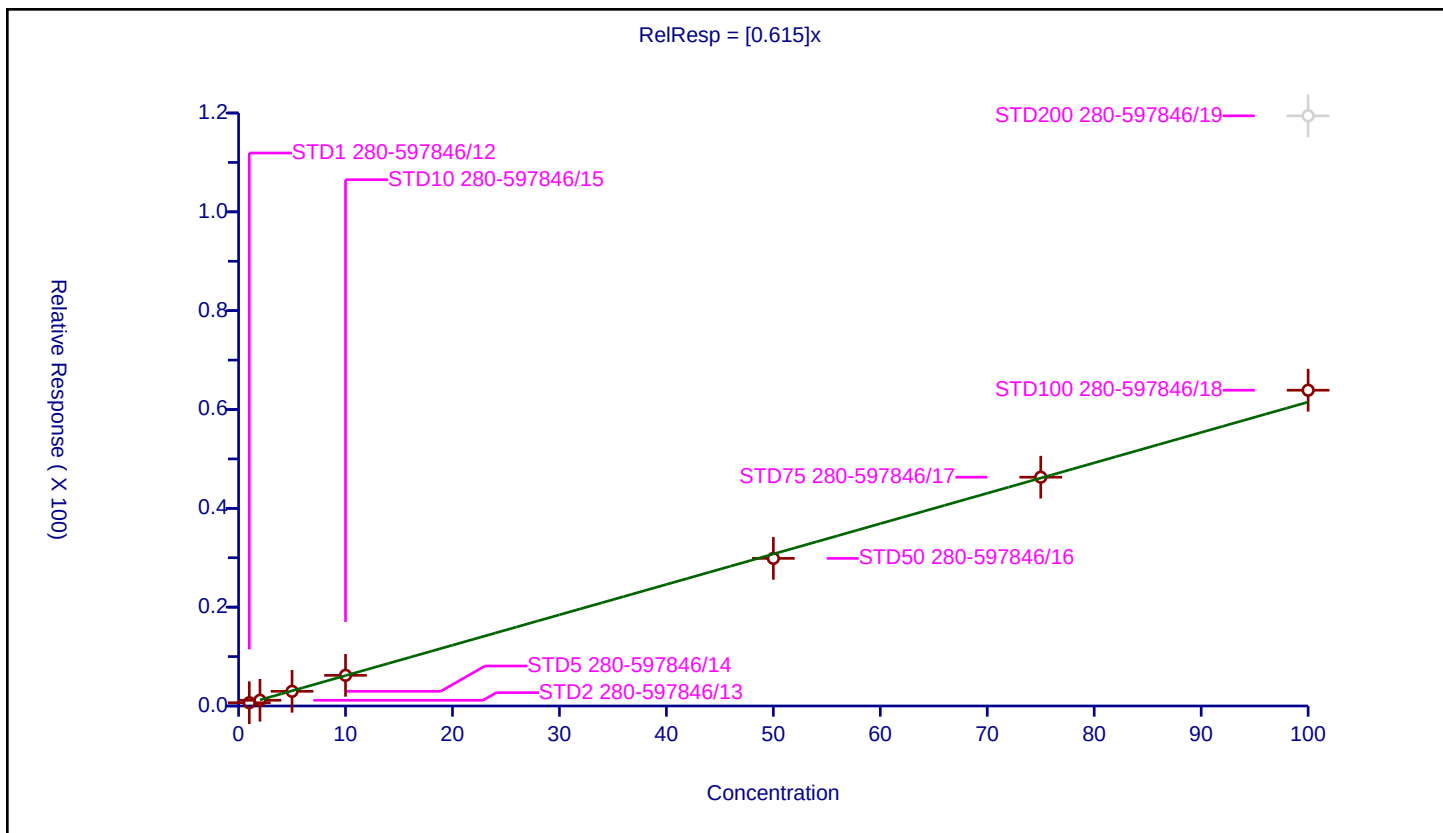
Curve Coefficients

Intercept: 0
 Slope: 0.615

Error Coefficients

Standard Error: 1200000
 Relative Standard Error: 4.6
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	1.0	0.65923	50.0	1694553.0	0.65923	Y
2	STD2 280-597846/13	2.0	1.155677	50.0	1661104.0	0.577839	Y
3	STD5 280-597846/14	5.0	2.969417	50.0	1675413.0	0.593883	Y
4	STD10 280-597846/15	10.0	6.205531	50.0	1665925.0	0.620553	Y
5	STD50 280-597846/16	50.0	29.872458	50.0	1694109.0	0.597449	Y
6	STD75 280-597846/17	75.0	46.298998	50.0	1721115.0	0.61732	Y
7	STD100 280-597846/18	100.0	63.905089	50.0	1764613.0	0.639051	Y
8	STD200 280-597846/19	100.0	119.433481	50.0	1818385.0	1.194335	N



Calibration

/ Ethyl acetate

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

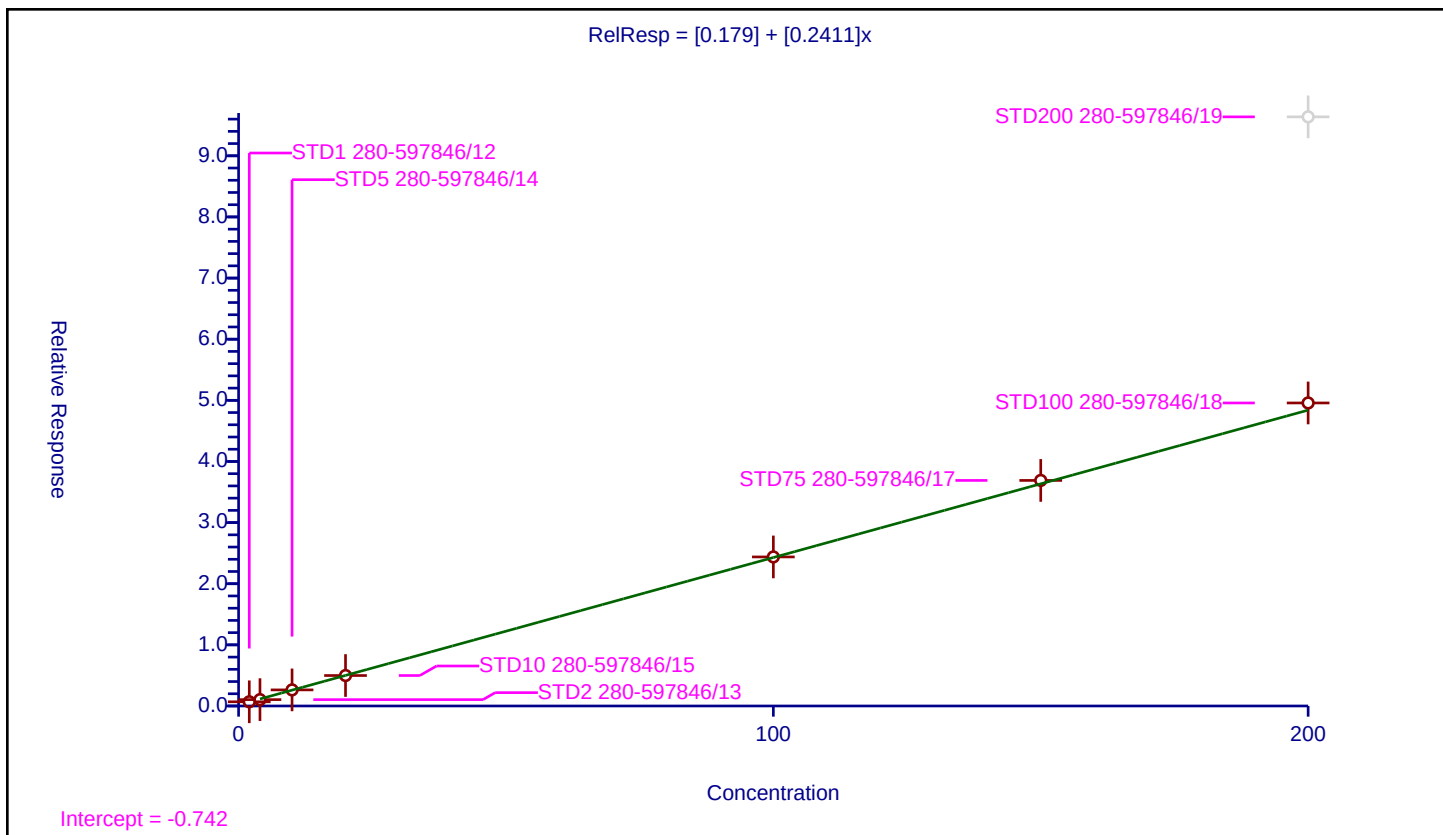
Curve Coefficients

Intercept: 0.179
Slope: 0.2411

Error Coefficients

Standard Error: 1040000
Relative Standard Error: 5.5
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	2.0	0.685284	50.0	1694553.0	0.342642	Y
2	STD2 280-597846/13	4.0	1.03964	50.0	1661104.0	0.25991	Y
3	STD5 280-597846/14	10.0	2.633052	50.0	1675413.0	0.263305	Y
4	STD10 280-597846/15	20.0	4.981827	50.0	1665925.0	0.249091	Y
5	STD50 280-597846/16	100.0	24.380427	50.0	1694109.0	0.243804	Y
6	STD75 280-597846/17	150.0	36.896924	50.0	1721115.0	0.245979	Y
7	STD100 280-597846/18	200.0	49.571351	50.0	1764613.0	0.247857	Y
8	STD200 280-597846/19	200.0	96.370103	50.0	1818385.0	0.481851	N



Calibration

/ Propionitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

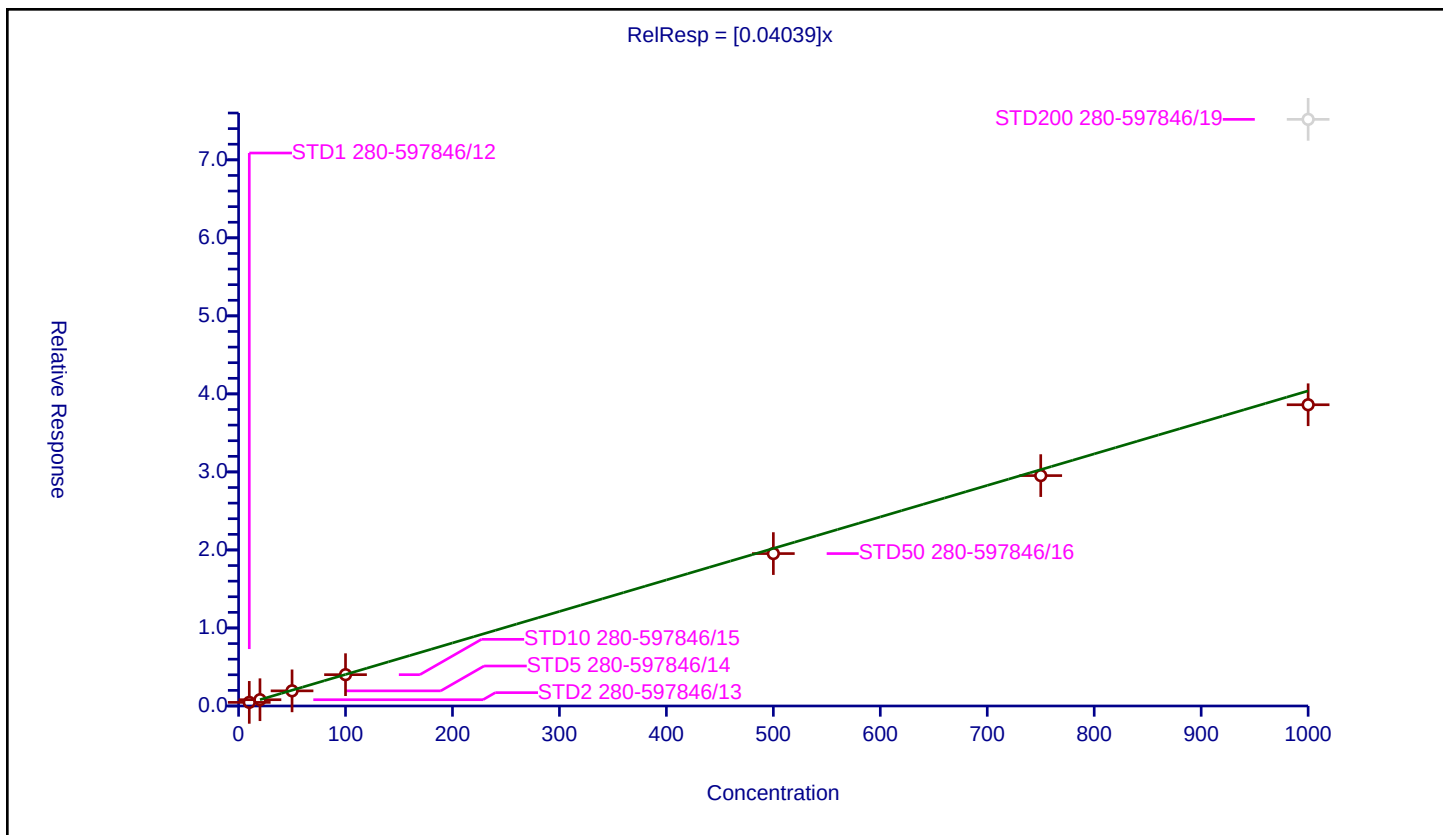
Curve Coefficients

Intercept: 0
 Slope: 0.04039

Error Coefficients

Standard Error: 747000
 Relative Standard Error: 6.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	10.0	0.46378	50.0	1694553.0	0.046378	Y
2	STD2 280-597846/13	20.0	0.806452	50.0	1661104.0	0.040323	Y
3	STD5 280-597846/14	50.0	1.940895	50.0	1675413.0	0.038818	Y
4	STD10 280-597846/15	100.0	4.013476	50.0	1665925.0	0.040135	Y
5	STD50 280-597846/16	500.0	19.534841	50.0	1694109.0	0.03907	Y
6	STD75 280-597846/17	750.0	29.528184	50.0	1721115.0	0.039371	Y
7	STD100 280-597846/18	1000.0	38.608805	50.0	1764613.0	0.038609	Y
8	STD200 280-597846/19	1000.0	75.185975	50.0	1818385.0	0.075186	N



Calibration

/ Methacrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

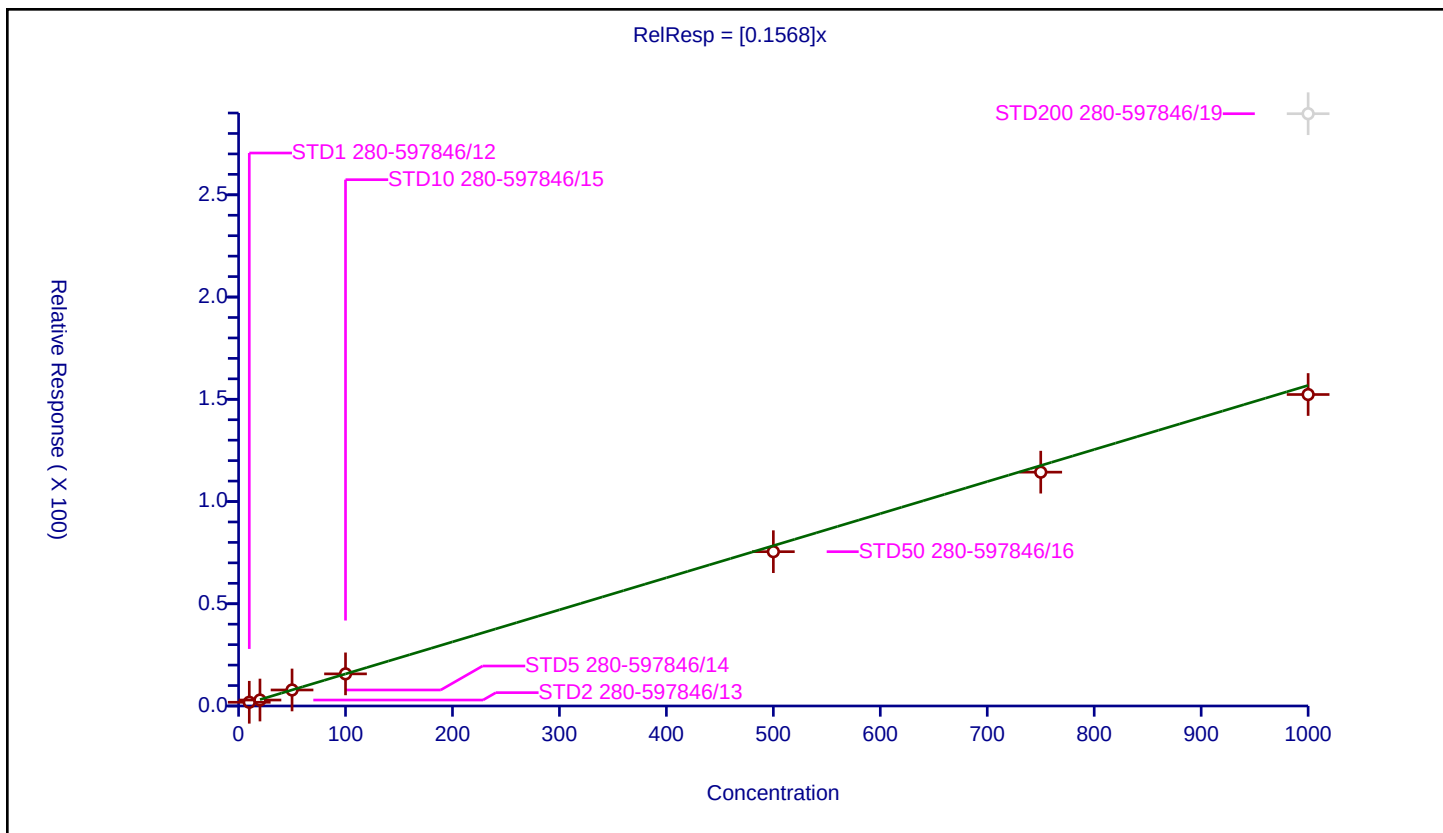
Curve Coefficients

Intercept: 0
 Slope: 0.1568

Error Coefficients

Standard Error: 2920000
 Relative Standard Error: 7.6
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	10.0	1.823431	50.0	1694553.0	0.182343	Y
2	STD2 280-597846/13	20.0	2.913153	50.0	1661104.0	0.145658	Y
3	STD5 280-597846/14	50.0	7.832546	50.0	1675413.0	0.156651	Y
4	STD10 280-597846/15	100.0	15.70707	50.0	1665925.0	0.157071	Y
5	STD50 280-597846/16	500.0	75.465658	50.0	1694109.0	0.150931	Y
6	STD75 280-597846/17	750.0	114.350959	50.0	1721115.0	0.152468	Y
7	STD100 280-597846/18	1000.0	152.330199	50.0	1764613.0	0.15233	Y
8	STD200 280-597846/19	1000.0	289.661843	50.0	1818385.0	0.289662	N



Calibration

/ Tert-amyl methyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

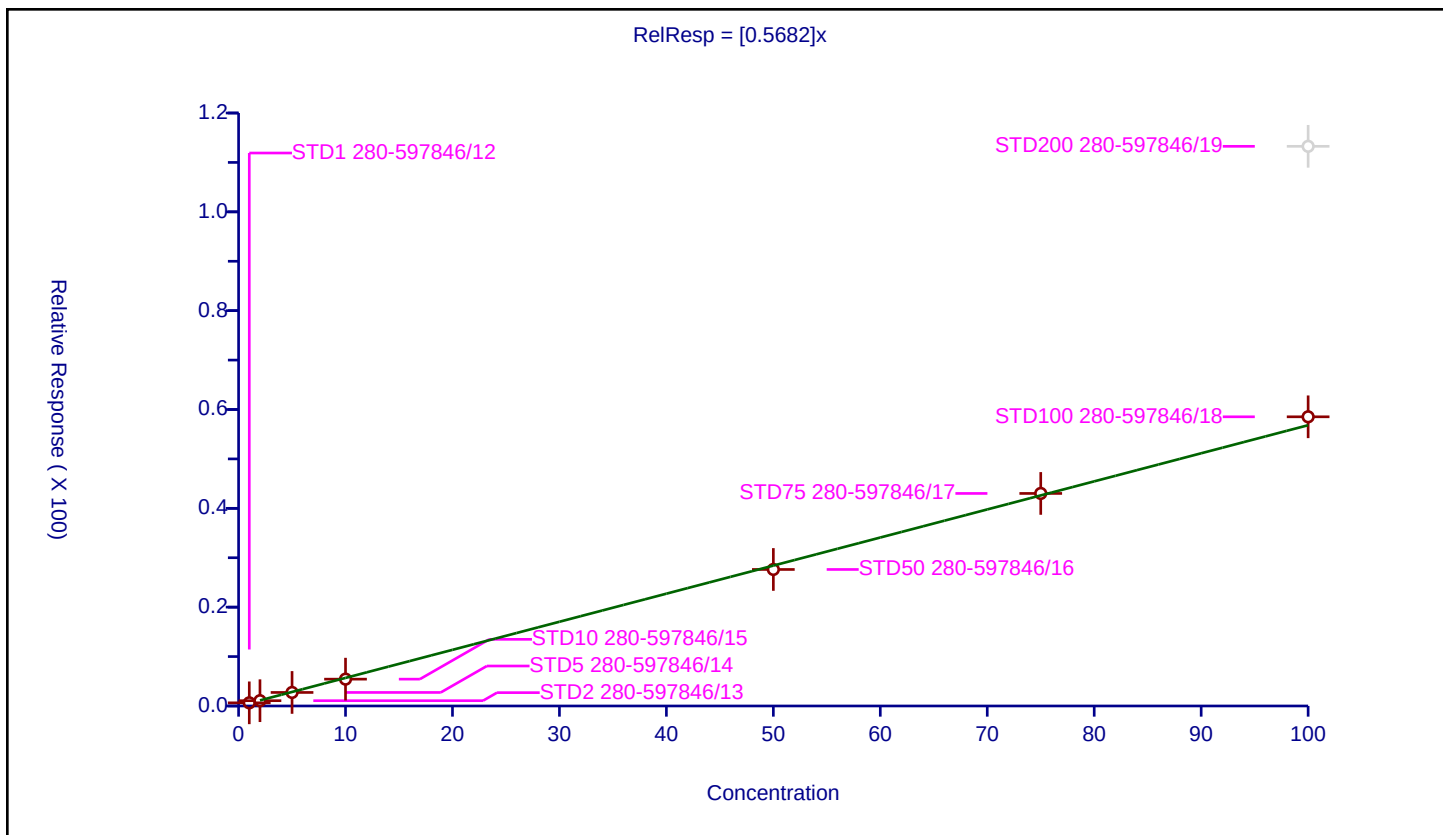
Curve Coefficients

Intercept: 0
 Slope: 0.5682

Error Coefficients

Standard Error: 1110000
 Relative Standard Error: 6.3
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	1.0	0.639107	50.0	1694553.0	0.639107	Y
2	STD2 280-597846/13	2.0	1.071336	50.0	1661104.0	0.535668	Y
3	STD5 280-597846/14	5.0	2.739653	50.0	1675413.0	0.547931	Y
4	STD10 280-597846/15	10.0	5.433138	50.0	1665925.0	0.543314	Y
5	STD50 280-597846/16	50.0	27.629775	50.0	1694109.0	0.552595	Y
6	STD75 280-597846/17	75.0	43.014499	50.0	1721115.0	0.573527	Y
7	STD100 280-597846/18	100.0	58.522634	50.0	1764613.0	0.585226	Y
8	STD200 280-597846/19	100.0	113.257918	50.0	1818385.0	1.132579	N



Calibration

/ n-Butanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

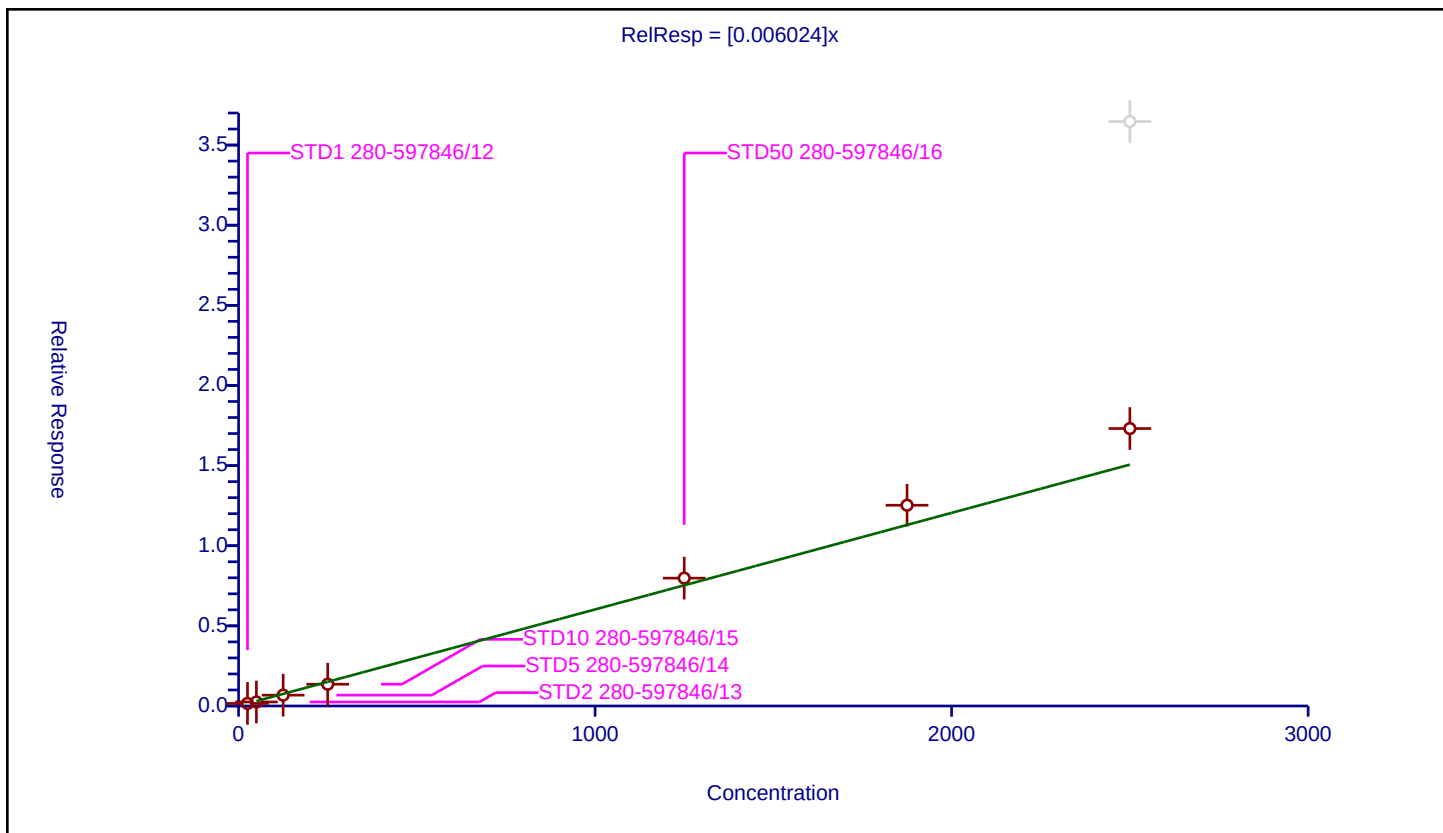
Curve Coefficients

Intercept: 0
 Slope: 0.006024

Error Coefficients

Standard Error: 325000
 Relative Standard Error: 12.2
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	25.0	0.158419	50.0	1694553.0	0.006337	Y
2	STD2 280-597846/13	50.0	0.249683	50.0	1661104.0	0.004994	Y
3	STD5 280-597846/14	125.0	0.677027	50.0	1675413.0	0.005416	Y
4	STD10 280-597846/15	250.0	1.359035	50.0	1665925.0	0.005436	Y
5	STD50 280-597846/16	1250.0	7.97794	50.0	1694109.0	0.006382	Y
6	STD75 280-597846/17	1875.0	12.526502	50.0	1721115.0	0.006681	Y
7	STD100 280-597846/18	2500.0	17.31306	50.0	1764613.0	0.006925	Y
8	STD200 280-597846/19	2500.0	36.468405	50.0	1818385.0	0.014587	N



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

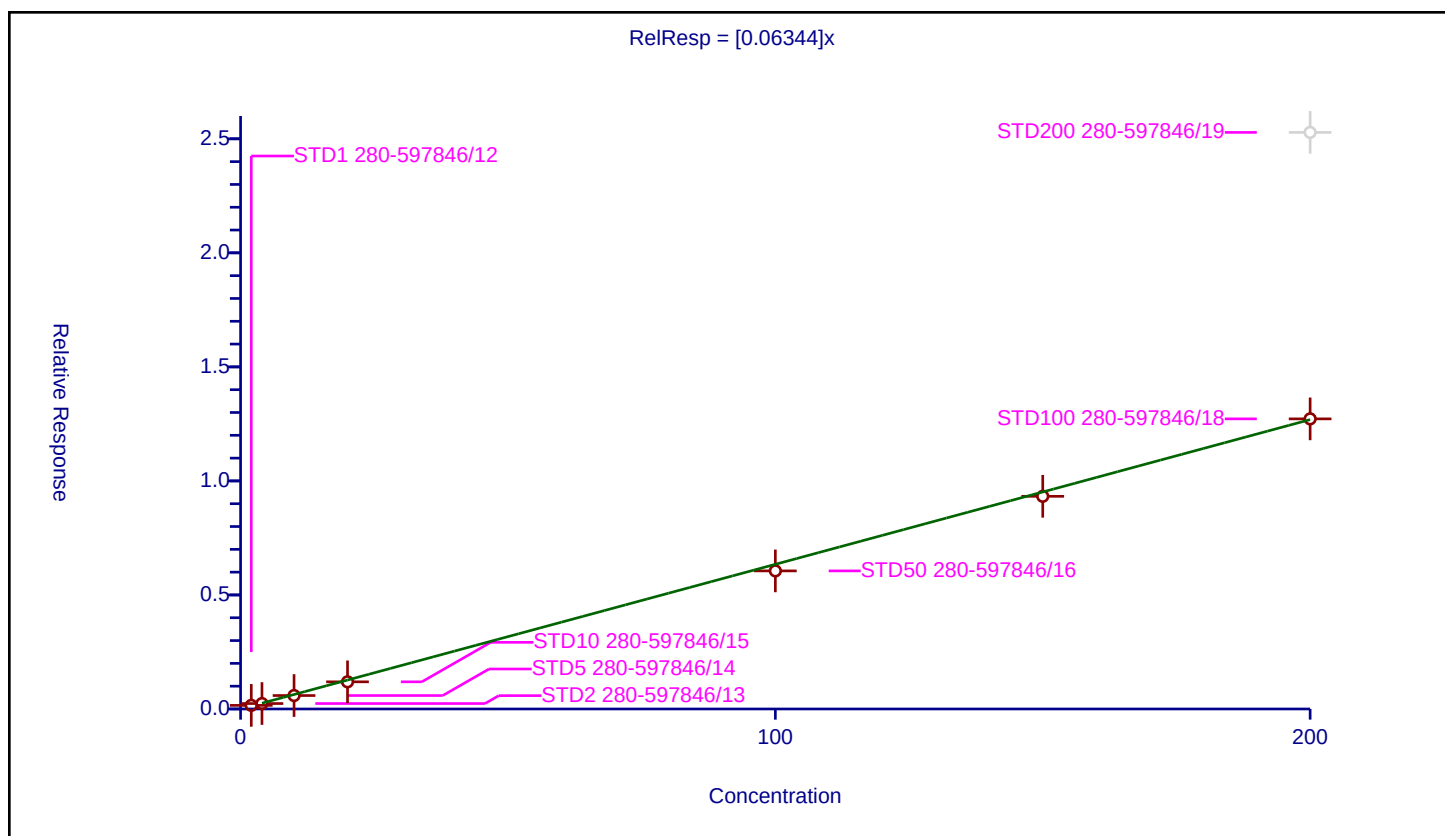
Curve Coefficients

Intercept: 0
Slope: 0.06344

Error Coefficients

Standard Error: 241000
Relative Standard Error: 11.4
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	2.0	0.15898	50.0	1694553.0	0.07949	Y
2	STD2 280-597846/13	4.0	0.238667	50.0	1661104.0	0.059667	Y
3	STD5 280-597846/14	10.0	0.590243	50.0	1675413.0	0.059024	Y
4	STD10 280-597846/15	20.0	1.19141	50.0	1665925.0	0.059571	Y
5	STD50 280-597846/16	100.0	6.054923	50.0	1694109.0	0.060549	Y
6	STD75 280-597846/17	150.0	9.325031	50.0	1721115.0	0.062167	Y
7	STD100 280-597846/18	200.0	12.720891	50.0	1764613.0	0.063604	Y
8	STD200 280-597846/19	200.0	25.281335	50.0	1818385.0	0.126407	N



Calibration

/ 2-Nitropropane

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

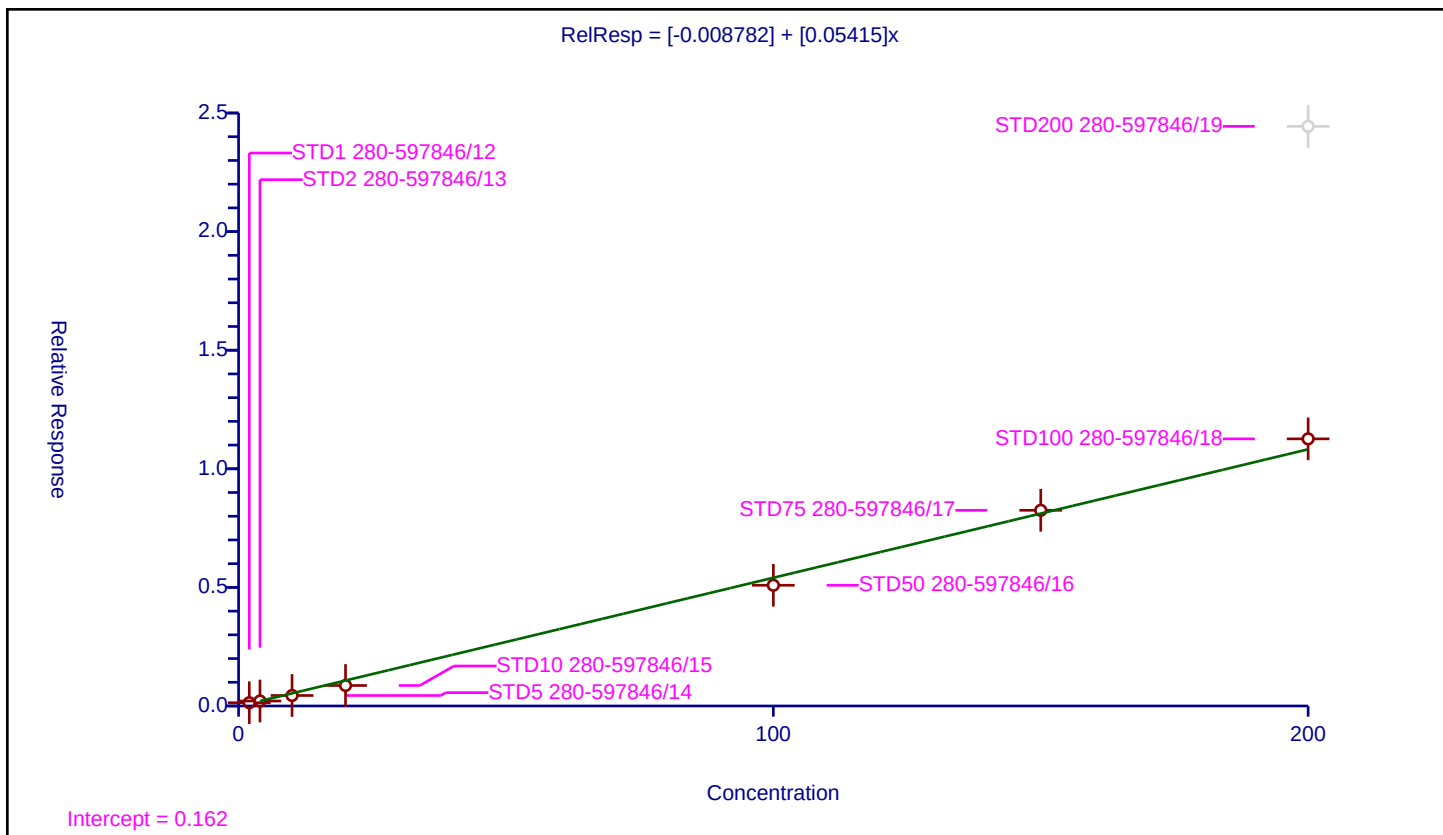
Curve Coefficients

Intercept: -0.008782
Slope: 0.05415

Error Coefficients

Standard Error: 232000
Relative Standard Error: 19.9
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	2.0	0.138031	50.0	1694553.0	0.069015	Y
2	STD2 280-597846/13	4.0	0.209379	50.0	1661104.0	0.052345	Y
3	STD5 280-597846/14	10.0	0.441891	50.0	1675413.0	0.044189	Y
4	STD10 280-597846/15	20.0	0.864205	50.0	1665925.0	0.04321	Y
5	STD50 280-597846/16	100.0	5.089873	50.0	1694109.0	0.050899	Y
6	STD75 280-597846/17	150.0	8.250843	50.0	1721115.0	0.055006	Y
7	STD100 280-597846/18	200.0	11.262668	50.0	1764613.0	0.056313	Y
8	STD200 280-597846/19	200.0	24.437647	50.0	1818385.0	0.122188	N



Calibration

/ cis-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

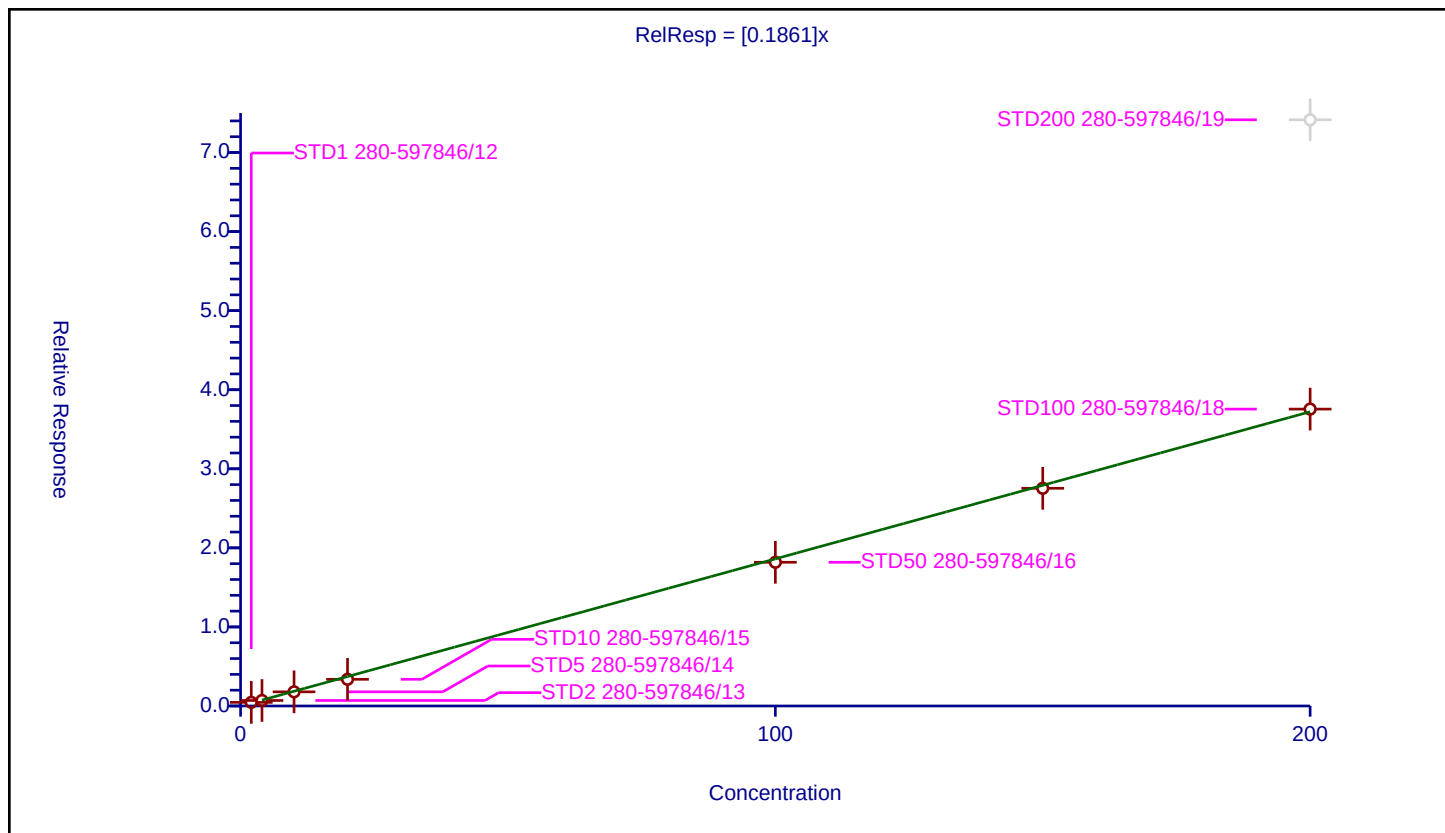
Curve Coefficients

Intercept: 0
Slope: 0.1861

Error Coefficients

Standard Error: 263000
Relative Standard Error: 10.4
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	2.0	0.455439	50.0	659913.0	0.227719	Y
2	STD2 280-597846/13	4.0	0.696456	50.0	636006.0	0.174114	Y
3	STD5 280-597846/14	10.0	1.788756	50.0	624037.0	0.178876	Y
4	STD10 280-597846/15	20.0	3.373854	50.0	622730.0	0.168693	Y
5	STD50 280-597846/16	100.0	18.176242	50.0	617083.0	0.181762	Y
6	STD75 280-597846/17	150.0	27.534925	50.0	635571.0	0.183566	Y
7	STD100 280-597846/18	200.0	37.550593	50.0	653011.0	0.187753	Y
8	STD200 280-597846/19	200.0	74.141826	50.0	682088.0	0.370709	N



Calibration

/ 1,2,3-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

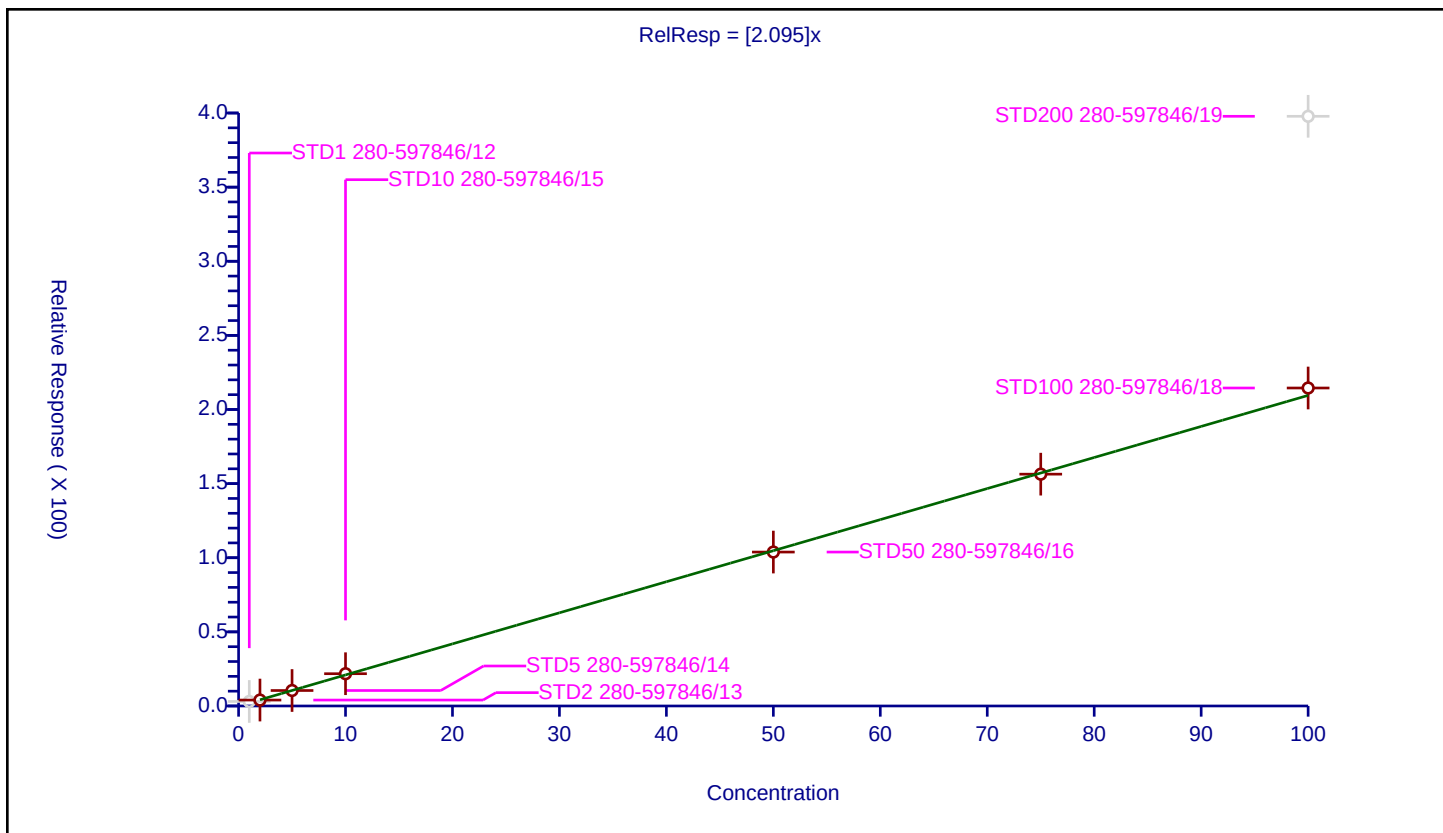
Curve Coefficients

Intercept: 0
 Slope: 2.095

Error Coefficients

Standard Error: 1650000
 Relative Standard Error: 2.9
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	1.0	3.040098	50.0	659913.0	3.040098	N
2	STD2 280-597846/13	2.0	4.000198	50.0	636006.0	2.000099	Y
3	STD5 280-597846/14	5.0	10.437843	50.0	624037.0	2.087569	Y
4	STD10 280-597846/15	10.0	21.768583	50.0	622730.0	2.176858	Y
5	STD50 280-597846/16	50.0	103.841136	50.0	617083.0	2.076823	Y
6	STD75 280-597846/17	75.0	156.385439	50.0	635571.0	2.085139	Y
7	STD100 280-597846/18	100.0	214.510016	50.0	653011.0	2.1451	Y
8	STD200 280-597846/19	100.0	397.784157	50.0	682088.0	3.977842	N



Calibration

/ 1,3,5-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

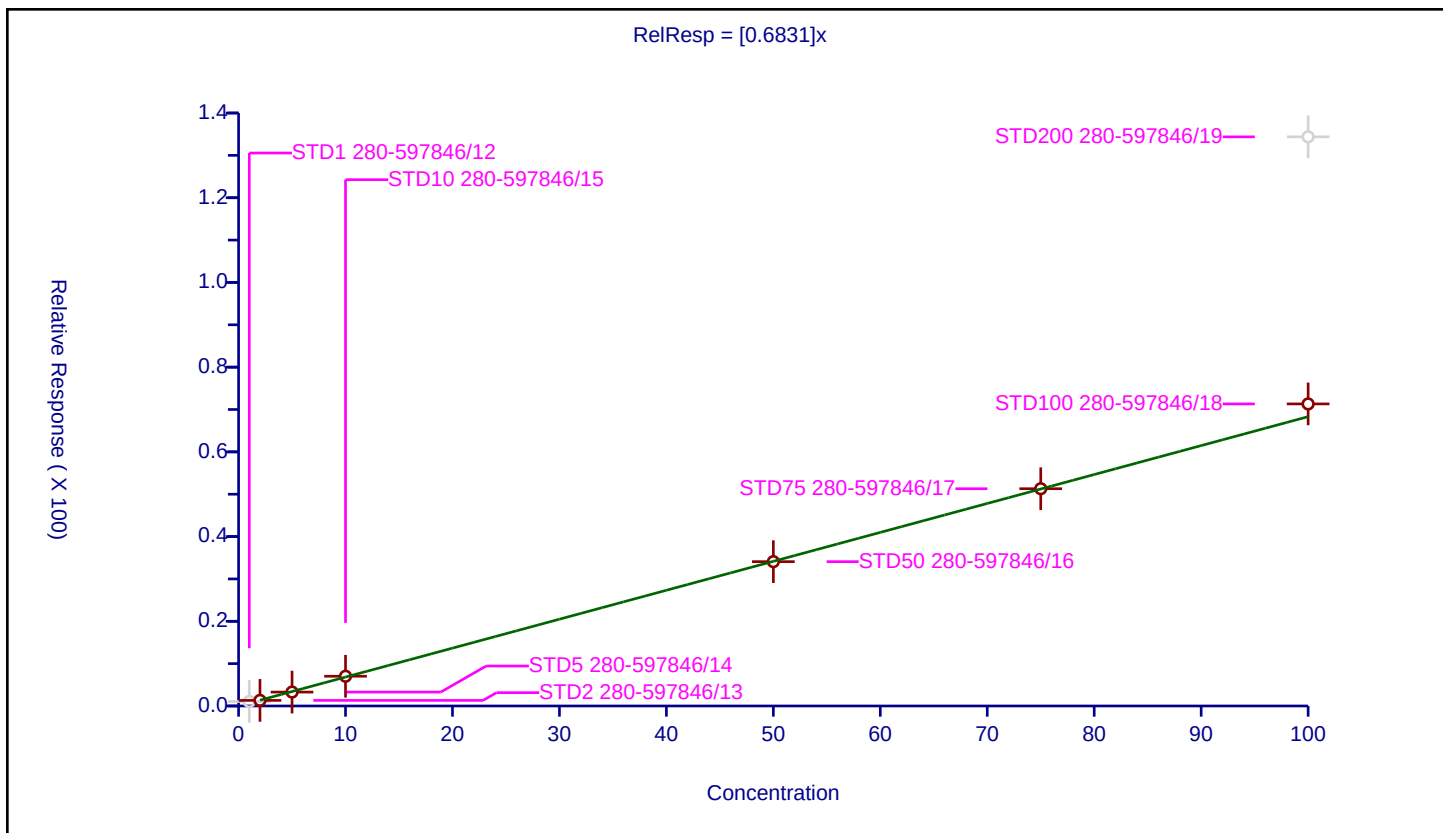
Curve Coefficients

Intercept: 0
Slope: 0.6831

Error Coefficients

Standard Error: 544000
Relative Standard Error: 3.2
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-597846/12	1.0	1.056882	50.0	659913.0	1.056882	N
2	STD2 280-597846/13	2.0	1.321057	50.0	636006.0	0.660528	Y
3	STD5 280-597846/14	5.0	3.286023	50.0	624037.0	0.657205	Y
4	STD10 280-597846/15	10.0	7.022305	50.0	622730.0	0.702231	Y
5	STD50 280-597846/16	50.0	34.074266	50.0	617083.0	0.681485	Y
6	STD75 280-597846/17	75.0	51.296708	50.0	635571.0	0.683956	Y
7	STD100 280-597846/18	100.0	71.315644	50.0	653011.0	0.713156	Y
8	STD200 280-597846/19	100.0	134.372838	50.0	682088.0	1.343728	N



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383
SDG No.: _____
Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-621383/21	MS1_2684.D
Level 2	IC 280-621383/20	MS1_2683.D
Level 3	IC 280-621383/19	MS1_2682.D
Level 4	IC 280-621383/18	MS1_2681.D
Level 5	IC 280-621383/17	MS1_2680.D
Level 6	ICIS 280-621383/16	MS1_2679.D
Level 7	IC 280-621383/15	MS1_2678.D
Level 8	IC 280-621383/14	MS1_2677.D
Level 9	IC 280-621383/13	MS1_2676.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Dichlorodifluoromethane	0.1990 0.1881	0.1766 0.1944	0.1647 0.1892	0.1763 0.2006	0.1803	Lin1	-0.02 3	0.195 1							0.9990		0.9900
Chloromethane	++++ 0.2284	0.4388 0.2266	0.3337 0.2313	0.3030 0.2249	0.2282	Lin2	0.215 6	0.227 1			0.1000				0.9940		0.9900
Vinyl chloride	++++ 0.2096	0.3385 0.2106	0.2880 0.2080	0.2536 0.2122	0.2091	Lin2	0.135 6	0.209 9							0.9970		0.9900
Bromomethane	++++ 0.1336	0.2017 0.1332	0.1839 0.1329	0.1736 0.1266	0.1460	Lin2	0.074 2	0.136 8							0.9920		0.9900
Chloroethane	++++ 0.1303	0.2582 0.1301	0.2257 0.1315	0.1676 0.1296	0.1392	Lin2	0.139 2	0.131 9							0.9900		0.9900
Dichlorofluoromethane	++++ 0.3164	++++ 0.3083	0.4467 0.3107	0.4031 0.3086	0.3223	Lin2	0.295 5	0.309 4							0.9960		0.9900
Trichlorofluoromethane	0.3111 0.2462	0.3202 0.2509	0.2906 0.2499	0.2489 0.2612	0.2391	Ave		0.268 7			11.3		15.0				
Ethyl ether	0.2001 0.1706	0.2037 0.1711	0.1954 0.1775	0.1693 0.1706	0.1763	Ave		0.181 6			7.7		15.0				
Acrolein	0.0378 0.0302	0.0365 0.0320	0.0295 0.0326	0.0308 0.0317	0.0305	Ave		0.032 4			8.8		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1262 0.1222	0.1346 0.1265	0.1110 0.1284	0.0998 0.1299	0.1159	Ave		0.121 6			9.0		15.0				
1,1-Dichloroethene	++++ 0.1629	0.2243 0.1644	0.2081 0.1647	0.1706 0.1680	0.1576	Ave		0.177 6			13.8		30.0				
Acetone	++++ 0.0704	0.1632 0.0794	0.1148 0.0783	0.0857 0.0757	0.0804	Lin2	0.350 7	0.073 2							0.9960		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383
SDG No.: _____
Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Iodomethane	0.2444 0.1841	0.2231 0.1895	0.2058 0.1978	0.1949 0.1887	0.1641	Ave		0.199 2				11.7		15.0			
Carbon disulfide	++++ 0.5509	++++ 0.5605	0.7944 0.5743	0.6718 0.5622	0.5784	Ave		0.613 2				14.6		15.0			
Methyl acetate	0.2347 0.1702	0.2025 0.1813	0.1608 0.1848	0.1712 0.1790	0.1735	Ave		0.184 2				12.1		15.0			
Allyl chloride	++++ 0.3274	0.6590 0.3216	0.5129 0.3185	0.4156 0.2690	0.3364	Lin2	0.363 3	0.311 1							0.9930		0.9900
Methylene Chloride	++++ 0.1967	0.3182 0.1986	0.2403 0.2062	0.2239 0.1971	0.2091	Lin2	0.114 5	0.197 3							0.9980		0.9900
2-Methyl-2-propanol	0.0238 0.0243	0.0257 0.0262	0.0237 0.0265	0.0235 0.0257	0.0248	Ave		0.024 9				4.6		15.0			
Acrylonitrile	0.1043 0.0890	0.0990 0.0922	0.0903 0.0931	0.0887 0.0892	0.0938	Ave		0.093 3				5.6		15.0			
Methyl tert-butyl ether	0.6362 0.5871	0.5476 0.5961	0.5333 0.6065	0.5373 0.5942	0.5742	Ave		0.579 2				5.9		15.0			
trans-1,2-Dichloroethene	++++ 0.1853	0.2976 0.1870	0.2504 0.1914	0.2239 0.1875	0.1940	Lin2	0.113 7	0.188 4							0.9990		0.9900
Hexane	0.9416 0.9483	0.9972 0.9887	0.8008 1.0163	0.7555 1.0292	0.8396	Ave		0.924 1				10.9		15.0			
Vinyl acetate	0.2805 0.3640	0.3402 0.3854	0.3181 0.4008	0.3165 0.4094	0.3240	Ave		0.348 8				12.5		15.0			
1,1-Dichloroethane	0.5793 0.3548	0.5191 0.3552	0.4720 0.3666	0.4140 0.3545	0.3659	Lin2	0.118 6	0.369 4		0.1000					0.9940		0.9900
2-Butanone (MEK)	++++ 0.1103	0.1352 0.1146	0.1230 0.1162	0.1038 0.1132	0.1106	Ave		0.115 9				8.2		15.0			
cis-1,2-Dichloroethene	++++ 0.2097	0.3185 0.2095	0.2610 0.2168	0.2406 0.2092	0.2131	Lin2	0.108 3	0.209 8							0.9990		0.9900
2,2-Dichloropropane	0.5103 0.2916	0.4709 0.2983	0.3818 0.3068	0.3261 0.3058	0.2934	Lin2	0.117 5	0.303 6							0.9920		0.9900
sec-Butyl Alcohol	0.0227 0.0195	0.0182 0.0212	0.0176 0.0214	0.0179 0.0203	0.0198	Ave		0.019 8				8.7		15.0			
Chlorobromomethane	++++ 0.0845	0.1315 0.0818	0.1050 0.0827	0.0951 0.0819	0.0959	Lin2	0.047 4	0.083 9							0.9980		0.9900
Tetrahydrofuran	0.0934 0.0717	0.0865 0.0740	0.0746 0.0762	0.0718 0.0743	0.0723	Ave		0.077 2				9.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383
SDG No.: _____
Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25 (mm)) Heated Purge: (Y/N) N
Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chloroform	+++++ 0.3285	0.4961 0.3362	0.4074 0.3438	0.3730 0.3350	0.3370	Lin2	0.161 4	0.332 3							0.9990		0.9900
1,1,1-Trichloroethane	0.4582 0.2819	0.4111 0.2831	0.3693 0.2875	0.2980 0.2841	0.2775	Lin2	0.096 2	0.286 7							0.9940		0.9900
Cyclohexane	0.4023 0.3243	0.3756 0.3372	0.3363 0.3428	0.2764 0.3477	0.3059	Ave		0.338 7				10.8		15.0			
1,1-Dichloropropene	+++++ 0.2649	0.3738 0.2666	0.3229 0.2757	0.2765 0.2757	0.2542	Ave		0.288 8				13.8		15.0			
Carbon tetrachloride	+++++ 0.2275	0.3280 0.2306	0.2584 0.2384	0.2365 0.2378	0.2284	Ave		0.248 2				13.6		15.0			
Isobutyl alcohol	0.0094 0.0080	0.0078 0.0085	0.0082 0.0086	0.0070 0.0084	0.0082	Ave		0.008 2				8.0		15.0			
Benzene	+++++ 0.8113	1.1617 0.8131	1.0032 0.8355	0.8892 0.8102	0.8052	Ave		0.891 2				14.4		15.0			
1,2-Dichloroethane	+++++ 0.2648	0.3926 0.2674	0.3158 0.2739	0.2962 0.2741	0.2855	Ave		0.296 3				14.3		15.0			
n-Heptane	0.3259 0.1856	0.2798 0.1927	0.1702 0.2035	0.1578 0.2112	0.1715	Lin1	0.021 8	0.201 6							0.9960		0.9900
Trichloroethene	+++++ 0.8337	1.2918 0.8382	1.1297 0.8355	0.8960 0.8087	0.8066	Lin2	0.501 1	0.814 3							0.9970		0.9900
2-Pentanone	0.1686 0.1663	0.1764 0.1784	0.1526 0.1799	0.1535 0.1755	0.1658	Ave		0.168 5				6.0		15.0			
Methylcyclohexane	0.2246 0.2232	0.2511 0.2321	0.2201 0.2379	0.1834 0.2439	0.2112	Ave		0.225 3				8.9		15.0			
1,2-Dichloropropane	0.2734 0.2049	0.2453 0.2089	0.2367 0.2136	0.2249 0.2111	0.2080	Ave		0.225 2				10.1		30.0			
1,4-Dioxane	0.0045 0.0031	0.0045 0.0033	0.0034 0.0033	0.0036 0.0031	0.0036	Lin2	0.014 2	0.003 3							0.9930		0.9900
Dibromomethane	+++++ 0.1176	0.1570 0.1176	0.1255 0.1210	0.1294 0.1187	0.1248	Ave		0.126 5				10.3		15.0			
Dichlorobromomethane	0.3157 0.2562	0.3115 0.2590	0.2722 0.2705	0.2619 0.2639	0.2633	Ave		0.274 9				8.2		15.0			
2-Chloroethyl vinyl ether	0.1000 0.1013	0.1207 0.1060	0.1109 0.1067	0.1070 0.1059	0.1002	Ave		0.106 5				6.0		15.0			
cis-1,3-Dichloropropene	1.6614 1.3846	1.6176 1.3936	1.3715 1.4114	1.2884 1.3675	1.3198	Ave		1.424 0				9.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383
SDG No.: _____
Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
4-Methyl-2-pentanone (MIBK)	0.2379 0.2158	0.2145 0.2262	0.2105 0.2280	0.2074 0.2201	0.2247	Ave		0.220 5				4.4		15.0			
Toluene	1.3607 0.8339	1.2954 0.8439	1.1234 0.8601	0.9437 0.8434	0.8598	Lin2	0.290 3	0.871 9							0.9910		0.9900
trans-1,3-Dichloropropene	0.4158 0.3034	0.3533 0.3102	0.3297 0.3201	0.2997 0.3156	0.3090	Ave		0.328 5				11.1		15.0			
Ethyl methacrylate	1.2834 1.1199	1.2619 1.1473	1.2344 1.1418	1.0809 1.0972	1.1072	Ave		1.163 8				6.5		15.0			
1,1,2-Trichloroethane	0.1822 0.1689	0.2117 0.1709	0.1752 0.1747	0.1658 0.1732	0.1712	Ave		0.177 1				7.8		15.0			
Tetrachloroethene	0.7745 0.5785	0.7389 0.5870	0.6660 0.5908	0.6079 0.5913	0.5518	Ave		0.631 8				12.3		15.0			
1,3-Dichloropropane	1.4366 1.2942	1.4330 1.2992	1.1684 1.3269	1.1977 1.2887	1.2842	Ave		1.303 2				6.9		15.0			
2-Hexanone	0.7893 0.6385	0.6754 0.6666	0.6466 0.6574	0.6083 0.6152	0.6629	Ave		0.662 2				8.0		15.0			
Chlorodibromomethane	0.8503 0.7452	0.8463 0.7493	0.7667 0.7548	0.6924 0.7510	0.7183	Ave		0.763 8				6.9		15.0			
1,2-Dibromoethane	0.9435 0.7456	0.8883 0.7553	0.7192 0.7600	0.7276 0.7378	0.7120	Ave		0.776 6				10.5		15.0			
1-Chlorohexane	2.2477 1.0218	1.7844 1.0366	1.3562 1.0449	1.0075 1.0262	0.9793	Lin2	0.522 6	0.998 9							0.9920		0.9900
Chlorobenzene	++++ 2.1145	2.9673 2.1218	2.5673 2.1439	2.2812 2.0737	2.0779	Ave		2.293 5			0.3000	13.9		15.0			
Ethylbenzene	++++ 1.1688	1.6627 1.1725	1.4529 1.1972	1.2417 1.1628	1.1112	Ave		1.271 2				14.9		30.0			
1,1,1,2-Tetrachloroethane	0.9271 0.7297	0.8676 0.7391	0.8159 0.7487	0.7465 0.7343	0.7101	Ave		0.779 9				9.5		15.0			
m-Xylene & p-Xylene	2.2702 1.4642	2.1496 1.4699	1.9280 1.4923	1.5825 1.4500	1.4555	Lin2	0.454 5	1.501 5							0.9920		0.9900
o-Xylene	++++ 1.4454	2.0351 1.4389	1.7414 1.4578	1.5741 1.4039	1.4278	Ave		1.565 5				14.0		15.0			
Styrene	++++ 2.4733	3.3165 2.4618	2.9229 2.5172	2.4877 2.4027	2.5061	Ave		2.636 0				12.1		15.0			
Bromoform	0.6396 0.5271	0.5738 0.5380	0.5246 0.5356	0.5109 0.5316	0.5135	Ave		0.543 9			0.1000	7.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383
SDG No.: _____
Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Isopropylbenzene	+++++ 2.2248	3.1133 2.2429	2.7566 2.2609	2.4068 2.2548	2.1825	Ave		2.430 3				13.7		15.0			
Cyclohexanone	0.0715 0.0568	0.0704 0.0585	0.0651 0.0572	0.0575 0.0519	0.0633	Ave		0.061 3				10.8		15.0			
1,1,2,2-Tetrachloroethane	0.6823 0.6099	0.6434 0.6317	0.5987 0.6438	0.5663 0.6413	0.6157	Ave		0.625 9			0.3000	5.3		15.0			
Bromobenzene	0.7157 0.5525	0.7171 0.5506	0.6410 0.5690	0.5669 0.5673	0.5518	Ave		0.603 6				11.5		15.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1994	0.2883 0.2095	0.1973 0.2116	0.1932 0.2091	0.1974	Ave		0.213 2				14.6		15.0			
1,2,3-Trichloropropane	0.2715 0.1860	0.2390 0.1898	0.1982 0.1939	0.1934 0.1923	0.2049	Ave		0.207 7				13.8		15.0			
N-Propylbenzene	+++++ 0.6036	0.8471 0.6098	0.7403 0.6175	0.6388 0.6240	0.5956	Ave		0.659 6				13.4		15.0			
2-Chlorotoluene	+++++ 0.5322	0.7090 0.5305	0.6887 0.5513	0.5523 0.5451	0.5303	Ave		0.579 9				12.8		15.0			
1,3,5-Trimethylbenzene	+++++ 1.8623	2.6903 1.8749	2.2991 1.9232	2.0179 1.9003	1.8546	Ave		2.052 8				14.4		15.0			
4-Chlorotoluene	0.8487 0.5513	0.8259 0.5543	0.6446 0.5724	0.6082 0.5747	0.5500	Lin2	0.163 9	0.566 6							0.9940		0.9900
tert-Butylbenzene	2.3497 1.4861	2.1897 1.5004	1.8427 1.5153	1.6320 1.5130	1.4896	Lin2	0.471 3	1.522 8							0.9950		0.9900
1,2,4-Trimethylbenzene	2.9720 1.9502	2.8235 1.9721	2.3996 1.9892	2.1387 1.9656	1.9578	Lin2	0.564 1	1.999 8							0.9950		0.9900
sec-Butylbenzene	+++++ 0.4158	0.5379 0.4178	0.4925 0.4336	0.4334 0.4373	0.4167	Ave		0.448 1				9.8		15.0			
1,3-Dichlorobenzene	1.5731 1.0177	1.4977 1.0224	1.2469 1.0483	1.0708 1.0292	1.0316	Lin2	0.308 7	1.038 8							0.9950		0.9900
4-Isopropyltoluene	2.7820 1.8135	2.7227 1.8361	2.3006 1.8789	1.9357 1.8652	1.7969	Lin2	0.546 5	1.869 8							0.9920		0.9900
1,4-Dichlorobenzene	+++++ 1.0373	1.4274 1.0538	1.2192 1.0710	1.1040 1.0702	1.0646	Ave		1.130 9				11.7		15.0			
n-Butylbenzene	+++++ 1.5983	2.3856 1.6123	1.8813 1.6781	1.6959 1.6570	1.6291	Lin2	0.733 1	1.597 8							0.9980		0.9900
1,2-Dichlorobenzene	1.2546 0.9748	1.2129 0.9742	1.0177 0.9997	1.0417 0.9829	1.0126	Ave		1.052 3				10.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383
SDG No.: _____
Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25 (mm)) Heated Purge: (Y/N) N
Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.1402	0.1489 0.1434	0.1539 0.1478	0.1446 0.1398	0.1572	Ave		0.147 0				4.2		15.0			
1,2,4-Trichlorobenzene	+++++ 0.5677	0.8527 0.5708	0.7076 0.5959	0.6154 0.5721	0.6505	Lin2	0.270 7	0.579 0							0.9980		0.9900
Hexachlorobutadiene	+++++ 0.2065	0.2999 0.2071	0.2688 0.2202	0.2286 0.2151	0.2263	Ave		0.234 1				14.1		15.0			
Naphthalene	3.0495 1.7985	2.7167 1.8554	2.4022 1.8943	2.0871 1.6695	2.3674	Lin1	1.008 3	1.773 4							0.9950		0.9900
1,2,3-Trichlorobenzene	1.0223 0.5092	0.7563 0.5121	0.6964 0.5271	0.5744 0.4799	0.6391	Lin2	0.248 4	0.529 0							0.9920		0.9900
Dibromofluoromethane (Surr)	0.2529 0.2403	0.2524 0.2394	0.2553 0.2415	0.2564 0.2396	0.2484	Ave		0.247 4				2.9		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3163 0.3076	0.3144 0.3056	0.3212 0.3032	0.3215 0.3023	0.3130	Ave		0.311 7				2.4		15.0			
Toluene-d8 (Surr)	4.0912 4.1795	4.1311 4.1266	4.0978 4.1341	4.0864 4.0992	4.0753	Ave		4.113 5				0.8		15.0			
4-Bromofluorobenzene (Surr)	1.0035 0.9869	0.9999 0.9903	0.9889 0.9823	1.0069 0.9951	1.0103	Ave		0.996 0				1.0		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383

SDG No.: _____

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-621383/21	MS1_2684.D
Level 2	IC 280-621383/20	MS1_2683.D
Level 3	IC 280-621383/19	MS1_2682.D
Level 4	IC 280-621383/18	MS1_2681.D
Level 5	IC 280-621383/17	MS1_2680.D
Level 6	ICIS 280-621383/16	MS1_2679.D
Level 7	IC 280-621383/15	MS1_2678.D
Level 8	IC 280-621383/14	MS1_2677.D
Level 9	IC 280-621383/13	MS1_2676.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Lin1	2841 304547	5021 472499	9975 611573	26539 1307872	55022	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Lin2	++++ 369920	12478 550797	20214 747578	45609 1466069	69649	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Lin2	++++ 339363	9626 511926	17445 672076	38161 1383416	63819	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Lin2	++++ 216270	5736 323683	11136 429673	26122 825453	44574	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Lin2	++++ 211051	7342 316223	13669 424871	25231 844858	42477	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Lin2	++++ 512409	++++ 749309	27056 1004294	60667 2011356	98378	++++ 50.0	++++ 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	4441 398736	9104 609807	17602 807567	37459 1702931	72981	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl ether	FB	Ave	2856 276224	5792 415787	11834 573810	25476 1112153	53820	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	5332 483240	10240 767804	17638 1041986	45822 2042481	92069	4.94 494	9.88 741	19.8 988	49.4 1975	98.8
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	1802 197882	3826 307367	6723 414879	15016 846661	35389	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloroethene	FB	Ave	++++ 263751	6378 399655	12604 532424	25678 1095117	48100	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin2	++++ 456108	18558 771813	27822 1012733	51609 1972565	98108	++++ 200	4.00 300	8.00 400	20.0 800	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383

SDG No.: _____

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Iodomethane	FB	Ave	3489 298191	6345 460643	12468 639111	29338 1230042	50096	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon disulfide	FB	Ave	++++ 892162	++++ 1362219	48114 1856129	101112 3664359	176552	++++ 50.0	++++ 75.0	2.00 100	5.00 200	10.0
Methyl acetate	FB	Ave	6701 551315	11517 881069	19478 1194616	51541 2332953	105903	1.00 100	2.00 150	4.00 200	10.0 400	20.0
Allyl chloride	FB	Lin2	++++ 530171	18739 781697	31067 1029343	62546 1753226	102693	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methylene Chloride	FB	Lin2	++++ 318560	9047 482797	14555 666505	33698 1285052	63834	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Methyl-2-propanol	FB	Ave	3401 392939	7305 635807	14371 856257	35297 1672159	75764	5.00 500	10.0 750	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Ave	14893 1440967	28155 2240742	54692 3010218	133460 5813970	286248	5.00 500	10.0 750	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	9083 950813	15570 1448765	32301 1960012	80870 3873538	175275	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Lin2	++++ 300013	8462 454535	15165 618485	33701 1222427	59229	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexane	CBNZ d5	Ave	3393 368987	7104 581118	12216 807405	28667 1667364	64403	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	8009 1178920	19346 1873502	38532 2590959	95266 5336695	197807	1.00 100	2.00 150	4.00 200	10.0 400	20.0
1,1-Dichloroethane	FB	Lin2	8270 574511	14760 863199	28589 1184809	62311 2310910	111688	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Ave	++++ 714466	15381 1113774	29806 1501870	62517 2951381	135024	++++ 200	4.00 300	8.00 400	20.0 800	40.0
cis-1,2-Dichloroethene	FB	Lin2	++++ 339565	9056 509138	15807 700709	36210 1363795	65043	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Lin2	7285 472231	13389 725078	23123 991673	49073 1993108	89560	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butyl Alcohol	FB	Ave	7764 759788	12420 1235045	25592 1659487	64665 3178901	145199	12.0 1200	24.0 1800	48.0 2400	120 4800	240
Chlorobromomethane	FB	Lin2	++++ 136793	3738 198875	6360 267205	14309 534077	29278	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	2668	4919	9036	21611	44147	1.00	2.00	4.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383

SDG No.: _____

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
			232113	359724	492429	968905		100	150	200	400	
Chloroform	FB	Lin2	++++ 532018	14105 817187	24677 1111097	56146 2183361	102865	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Lin2	6541 456542	11689 688037	22370 929215	44854 1851752	84713	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	5743 525124	10681 819489	20369 1108035	41596 2266309	93367	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	++++ 428983	10630 647981	19555 890876	41622 1797150	77589	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	++++ 368418	9327 560507	15650 770487	35599 1549929	69714	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isobutyl alcohol	FB	Ave	3349 321917	5526 516645	12372 694741	26151 1362116	62325	12.5 1250	25.0 1875	50.0 2500	125 5000	250
Benzene	FB	Ave	++++ 1313804	33032 1976157	60761 2700147	133829 5281337	245769	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	++++ 428893	11162 649876	19125 885375	44579 1786610	87129	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Heptane	FB	Lin1	4652 300531	7956 468425	10309 657558	23756 1376480	52339	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichloroethene	CBNZ d5	Lin2	++++ 324397	9203 492669	17234 663761	33996 1310156	61875	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Pentanone	FB	Ave	7702 861598	16049 1387436	29575 1860618	73938 3659825	161975	1.60 160	3.20 240	6.40 320	16.0 640	32.0
Methylcyclohexane	FB	Ave	3206 361516	7139 564121	13331 768894	27596 1589593	64454	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	3903 331876	6975 507692	14335 690334	33849 1375744	63479	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Lin2	1296 100328	2562 161222	4132 216249	10902 410103	22009	10.0 1000	20.0 1500	40.0 2000	100 4000	200
Dibromomethane	FB	Ave	++++ 190483	4465 285768	7604 391164	19469 774033	38088	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorobromomethane	FB	Ave	4507 414932	8858 629475	16489 874257	39413 1720045	80373	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Ave	1428 164084	3431 257574	6717 344752	16104 690386	30574	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383

SDG No.: _____

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
cis-1,3-Dichloropropene	CBNZ d5	Ave	5987	11524	20923	48886	101245	0.500	1.00	2.00	5.00	10.0
			538721	819105	1121277	2215419		50.0	75.0	100	200	
4-Methyl-2-pentanone (MIBK)	FB	Ave	13584	24393	51004	124830	274338	2.00	4.00	8.00	20.0	40.0
			1397565	2198812	2947360	5737565		200	300	400	800	
Toluene	FB	Lin2	19426	36834	68043	142027	262422	0.500	1.00	2.00	5.00	10.0
			1350434	2051045	2779722	5497924		50.0	75.0	100	200	
trans-1,3-Dichloropropene	FB	Ave	5936	10046	19968	45110	94321	0.500	1.00	2.00	5.00	10.0
			491386	753897	1034462	2057311		50.0	75.0	100	200	
Ethyl methacrylate	CBNZ d5	Ave	4625	8990	18832	41013	84933	0.500	1.00	2.00	5.00	10.0
			435721	674329	907120	1777527		50.0	75.0	100	200	
1,1,2-Trichloroethane	FB	Ave	2601	6019	10613	24953	52244	0.500	1.00	2.00	5.00	10.0
			273570	415452	564701	1129020		50.0	75.0	100	200	
Tetrachloroethene	CBNZ d5	Ave	2791	5264	10160	23065	42331	0.500	1.00	2.00	5.00	10.0
			225080	345000	469323	957886		50.0	75.0	100	200	
1,3-Dichloropropane	CBNZ d5	Ave	5177	10209	17825	45444	98510	0.500	1.00	2.00	5.00	10.0
			503552	763581	1054117	2087844		50.0	75.0	100	200	
2-Hexanone	CBNZ d5	Ave	11377	19247	39456	92326	203420	2.00	4.00	8.00	20.0	40.0
			993657	1567182	2089105	3986606		200	300	400	800	
Chlorodibromomethane	CBNZ d5	Ave	3064	6029	11697	26272	55099	0.500	1.00	2.00	5.00	10.0
			289958	440414	599623	1216724		50.0	75.0	100	200	
1,2-Dibromoethane	CBNZ d5	Ave	3400	6328	10971	27608	54616	0.500	1.00	2.00	5.00	10.0
			290116	443924	603735	1195252		50.0	75.0	100	200	
1-Chlorohexane	CBNZ d5	Lin2	6480	10170	16551	30582	60099	0.400	0.800	1.60	4.00	8.00
			318065	487402	664080	1330024		40.0	60.0	80.0	160	
Chlorobenzene	CBNZ d5	Ave	+++++	21139	39166	86557	159398	+++++	1.00	2.00	5.00	10.0
			822711	1247059	1703191	3359654		50.0	75.0	100	200	

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383

SDG No.: _____

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Ethylbenzene	CBNZ d5	Ave	+++++	11845	22165	47114	85243	+++++	1.00	2.00	5.00	10.0
			454748	689130	951122	1883774		50.0	75.0	100	200	
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3341	6181	12447	28323	54476	0.500	1.00	2.00	5.00	10.0
			283908	434430	594781	1189640		50.0	75.0	100	200	
m-Xylene & p-Xylene	CBNZ d5	Lin2	8181	15314	29413	60046	111649	0.500	1.00	2.00	5.00	10.0
			569698	863932	1185565	2349172		50.0	75.0	100	200	
o-Xylene	CBNZ d5	Ave	+++++	14498	26566	59726	109524	+++++	1.00	2.00	5.00	10.0
			562394	845713	1158134	2274446		50.0	75.0	100	200	
Styrene	CBNZ d5	Ave	+++++	23627	44591	94389	192244	+++++	1.00	2.00	5.00	10.0
			962320	1446903	1999710	3892507		50.0	75.0	100	200	
Bromoform	CBNZ d5	Ave	2305	4088	8003	19386	39392	0.500	1.00	2.00	5.00	10.0
			205088	316214	425532	861263		50.0	75.0	100	200	
Isopropylbenzene	DCBd 4	Ave	+++++	34740	66868	142200	259462	+++++	1.00	2.00	5.00	10.0
			1368353	2078206	2799075	5545436		50.0	75.0	100	200	
Cyclohexanone	CBNZ d5	Ave	7727	15048	29777	65399	145603	15.0	30.0	60.0	150	300
			663026	1031442	1363569	2522362		1500	2250	3000	6000	
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	3777	7179	14522	33457	73196	0.500	1.00	2.00	5.00	10.0
			375101	585300	797103	1577151		50.0	75.0	100	200	
Bromobenzene	DCBd 4	Ave	3962	8002	15549	33497	65597	0.500	1.00	2.00	5.00	10.0
			339837	510211	704474	1395223		50.0	75.0	100	200	
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++	3217	4787	11417	23471	+++++	1.00	2.00	5.00	10.0
			122670	194097	262013	514335		50.0	75.0	100	200	
1,2,3-Trichloropropane	DCBd 4	Ave	1503	2667	4807	11428	24359	0.500	1.00	2.00	5.00	10.0
			114373	175842	240002	473030		50.0	75.0	100	200	

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383

SDG No.: _____

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
N-Propylbenzene	DCBd 4	Ave	++++ 371217	9453 565027	17958 764563	37744 1534626	70806	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCBd 4	Ave	++++ 327348	7912 491569	16707 682523	32631 1340673	63042	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 1145437	30020 1737236	55771 2381099	119224 4673695	220480	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCBd 4	Lin2	4698 339103	9216 513593	15637 708696	35935 1413497	65389	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCBd 4	Lin2	13007 914037	24434 1390255	44700 1876014	96423 3721033	177083	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCBd 4	Lin2	16452 1199462	31507 1827318	58209 2462696	126360 4834161	232749	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCBd 4	Ave	++++ 255711	6002 387102	11947 536813	25609 1075531	49536	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCBd 4	Lin2	8708 625910	16713 947274	30248 1297815	63264 2531097	122640	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Isopropyltoluene	DCBd 4	Lin2	15400 1115383	30382 1701274	55807 2326156	114367 4587181	213620	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 637983	15928 976403	29575 1325905	65231 2632145	126564	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCBd 4	Lin2	++++ 983037	26620 1493901	45637 2077649	100197 4075333	193669	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	6945 599545	13534 902693	24687 1237653	61549 2417397	120382	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621383

SDG No.: _____

Instrument ID: VMS_MS1 GC Column: DB-624 (60. ID: 0.25 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2023 09:52 Calibration End Date: 08/01/2023 12:42 Calibration ID: 83092

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++	1661	3733	8543	18689	+++++	1.00	2.00	5.00	10.0
			86257	132895	183043	343761		50.0	75.0	100	200	
1,2,4-Trichlorobenzene	DCBd 4	Lin2	+++++	9515	17164	36362	77333	+++++	1.00	2.00	5.00	10.0
			349139	528902	737776	1407134		50.0	75.0	100	200	
Hexachlorobutadiene	DCBd 4	Ave	+++++	3346	6521	13507	26908	+++++	1.00	2.00	5.00	10.0
			127020	191896	272563	529099		50.0	75.0	100	200	
Naphthalene	DCBd 4	Lin1	16881	30315	58272	123313	281444	0.500	1.00	2.00	5.00	10.0
			1106158	1719118	2345294	4105993		50.0	75.0	100	200	
1,2,3-Trichlorobenzene	DCBd 4	Lin2	5659	8439	16892	33940	75979	0.500	1.00	2.00	5.00	10.0
			313167	474524	652530	1180324		50.0	75.0	100	200	
Dibromofluoromethane (Surr)	FB	Ave	361021	358910	386555	385833	379130	50.0	50.0	50.0	50.0	50.0
			389166	387869	390288	390433		50.0	50.0	50.0	50.0	
1,2-Dichloroethane-d4 (Surr)	FB	Ave	451597	447009	486341	483851	477744	50.0	50.0	50.0	50.0	50.0
			498185	495117	489985	492593		50.0	50.0	50.0	50.0	
Toluene-d8 (Surr)	CBNZ d5	Ave	1474323	1471517	1562839	1550521	1563100	50.0	50.0	50.0	50.0	50.0
			1626168	1616952	1642115	1660252		50.0	50.0	50.0	50.0	
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	555514	557854	599699	594903	600555	50.0	50.0	50.0	50.0	50.0
			606987	611728	608093	611855		50.0	50.0	50.0	50.0	

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2676.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 01-Aug-2023 09:52:30 ALS Bottle#: 4 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:20:24 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: AF7X

Date: 01-Aug-2023 11:03:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1629600	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	405022	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	98	614848	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	390433	50.0	48.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	492593	50.0	48.5	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1660252	50.0	49.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	84	611855	50.0	50.0	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	1307872	200.0	205.8	
10 Chloromethane	50	2.023	2.023	0.000	99	1466069	200.0	197.2	
11 Vinyl chloride	62	2.149	2.135	0.014	98	1383416	200.0	201.6	
13 Bromomethane	94	2.498	2.498	0.000	91	825453	200.0	184.6	
14 Chloroethane	64	2.623	2.623	0.000	100	844858	200.0	195.5	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	2011356	200.0	198.5	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	1702931	200.0	194.5	
18 Ethyl ether	59	3.182	3.182	0.000	92	1112153	200.0	187.9	
20 Acrolein	56	3.322	3.322	0.000	99	2042481	1975.0	1933.2	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	3.420	3.420	0.000	76	846661	200.0	213.6	
22 1,1-Dichloroethene	96	3.420	3.420	0.000	98	1095117	200.0	189.2	
23 Acetone	43	3.461	3.447	0.014	99	1972565	800.0	821.7	
24 Iodomethane	142	3.559	3.559	0.000	98	1230042	200.0	189.5	
26 Carbon disulfide	76	3.629	3.629	0.000	100	3664359	200.0	183.3	
28 Methyl acetate	43	3.755	3.755	0.000	98	2332953	400.0	388.6	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	90	1753226	200.0	171.7	
30 Methylene Chloride	84	3.894	3.894	0.000	94	1285052	200.0	199.2	
31 2-Methyl-2-propanol	59	3.978	3.964	0.014	99	1672159	2000.0	2060.6	
32 Acrylonitrile	53	4.104	4.104	0.000	98	5813970	2000.0	1912.2	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	96	3873538	200.0	205.2	
34 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	98	1222427	200.0	198.5	
36 Hexane	57	4.383	4.383	0.000	95	1667364	200.0	222.7	
38 Vinyl acetate	43	4.523	4.523	0.000	98	5336695	400.0	469.5	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	2310910	200.0	191.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	5.012	5.012	0.000	100	2951381	800.0	781.6	
46 2,2-Dichloropropane	77	5.054	5.040	0.014	91	1993108	200.0	201.0	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	83	1363795	200.0	199.0	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	3178901	4800.0	4914.3	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	968905	400.0	385.1	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	534077	200.0	194.9	
53 Chloroform	83	5.319	5.319	0.000	94	2183361	200.0	201.1	
54 1,1,1-Trichloroethane	97	5.487	5.487	-0.001	98	1851752	200.0	197.8	
57 Cyclohexane	56	5.542	5.542	0.000	92	2266309	200.0	205.3	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	1797150	200.0	190.9	
59 Carbon tetrachloride	117	5.612	5.612	0.000	86	1549929	200.0	191.6	
60 Isobutyl alcohol	41	5.668	5.654	0.014	94	1362116	5000.0	5092.8	
61 Benzene	78	5.794	5.794	0.000	96	5281337	200.0	181.8	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	98	1786610	200.0	185.0	
64 n-Heptane	43	6.017	6.017	0.000	93	1376480	200.0	209.4	
66 Trichloroethene	95	6.352	6.352	0.000	99	1310156	200.0	198.0	
67 2-Pentanone	43	6.478	6.478	0.000	99	3659825	640.0	666.2	
68 Methylcyclohexane	55	6.562	6.562	0.000	92	1589593	200.0	216.5	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	96	1375744	200.0	187.4	
71 1,4-Dioxane	88	6.632	6.632	0.000	96	410103	4000.0	3788.8	
72 Dibromomethane	93	6.660	6.660	0.000	96	774033	200.0	187.8	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	1720045	200.0	192.0	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	93	690386	200.0	198.9	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	94	2215419	200.0	192.1	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	5737565	800.0	798.2	
80 Toluene	91	7.484	7.484	0.000	98	5497924	200.0	193.1	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	96	2057311	200.0	192.1	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	1777527	200.0	188.6	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	92	1129020	200.0	195.6	
89 Tetrachloroethene	164	7.959	7.959	0.000	96	957886	200.0	187.2	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	95	2087844	200.0	197.8	
91 2-Hexanone	43	8.042	8.042	0.000	97	3986606	800.0	743.1	
93 Chlorodibromomethane	129	8.224	8.224	0.000	91	1216724	200.0	196.7	
95 Ethylene Dibromide	107	8.350	8.350	0.000	99	1195252	200.0	190.0	
96 1-Chlorohexane	91	8.755	8.755	0.000	99	1330024	160.0	163.8	
97 Chlorobenzene	112	8.797	8.797	-0.001	92	3359654	200.0	180.8	
98 Ethylbenzene	106	8.880	8.880	0.000	99	1883774	200.0	182.9	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	95	1189640	200.0	188.3	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	2349172	200.0	192.8	
101 o-Xylene	106	9.369	9.369	0.000	97	2274446	200.0	179.3	
103 Styrene	104	9.397	9.383	0.014	95	3892507	200.0	182.3	
104 Bromoform	173	9.579	9.579	0.000	95	861263	200.0	195.5	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	5545436	200.0	185.6	
107 Cyclohexanone	55	9.830	9.830	0.000	94	2522362	6000.0	5076.2	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	94	1577151	200.0	204.9	
109 Bromobenzene	156	10.053	10.054	-0.001	97	1395223	200.0	188.0	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.054	-0.001	79	514335	200.0	196.1	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	85	473030	200.0	185.2	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	1534626	200.0	189.2	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	1340673	200.0	188.0	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	93	4673695	200.0	185.1	
115 4-Chlorotoluene	126	10.347	10.347	0.000	99	1413497	200.0	202.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 tert-Butylbenzene	119	10.626	10.626	0.000	93	3721033	200.0	198.4	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	4834161	200.0	196.3	
118 sec-Butylbenzene	134	10.850	10.850	0.000	95	1075531	200.0	195.2	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	2531097	200.0	197.8	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	4587181	200.0	199.2	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	94	2632145	200.0	189.3	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	4075333	200.0	207.0	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	2417397	200.0	186.8	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	85	343761	200.0	190.2	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	1407134	200.0	197.2	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	98	529099	200.0	183.8	
130 Naphthalene	128	13.336	13.322	0.014	97	4105993	200.0	187.7	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	95	1180324	200.0	181.0	
S 147 1,2-Dichloroethene, Total (URS)	95				0		400.0	397.5	
S 154 1,3-Dichloropropene, Total	1				0		400.0	384.2	
S 153 1,2-Dichloroethene, Total	1				0		400.0	397.5	
S 152 Trihalomethanes, Total	1				0		800.0	785.2	
S 151 Total BTEX	1				0			930.1	
S 150 Xylenes, Total (URS)	1				0		400.0	372.2	
S 148 Xylenes, Total	106				0		400.0	372.2	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 100.00

Units: uL

MV-Gas A_00161

Amount Added: 40.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2676.D

Injection Date: 01-Aug-2023 09:52:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: ic

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

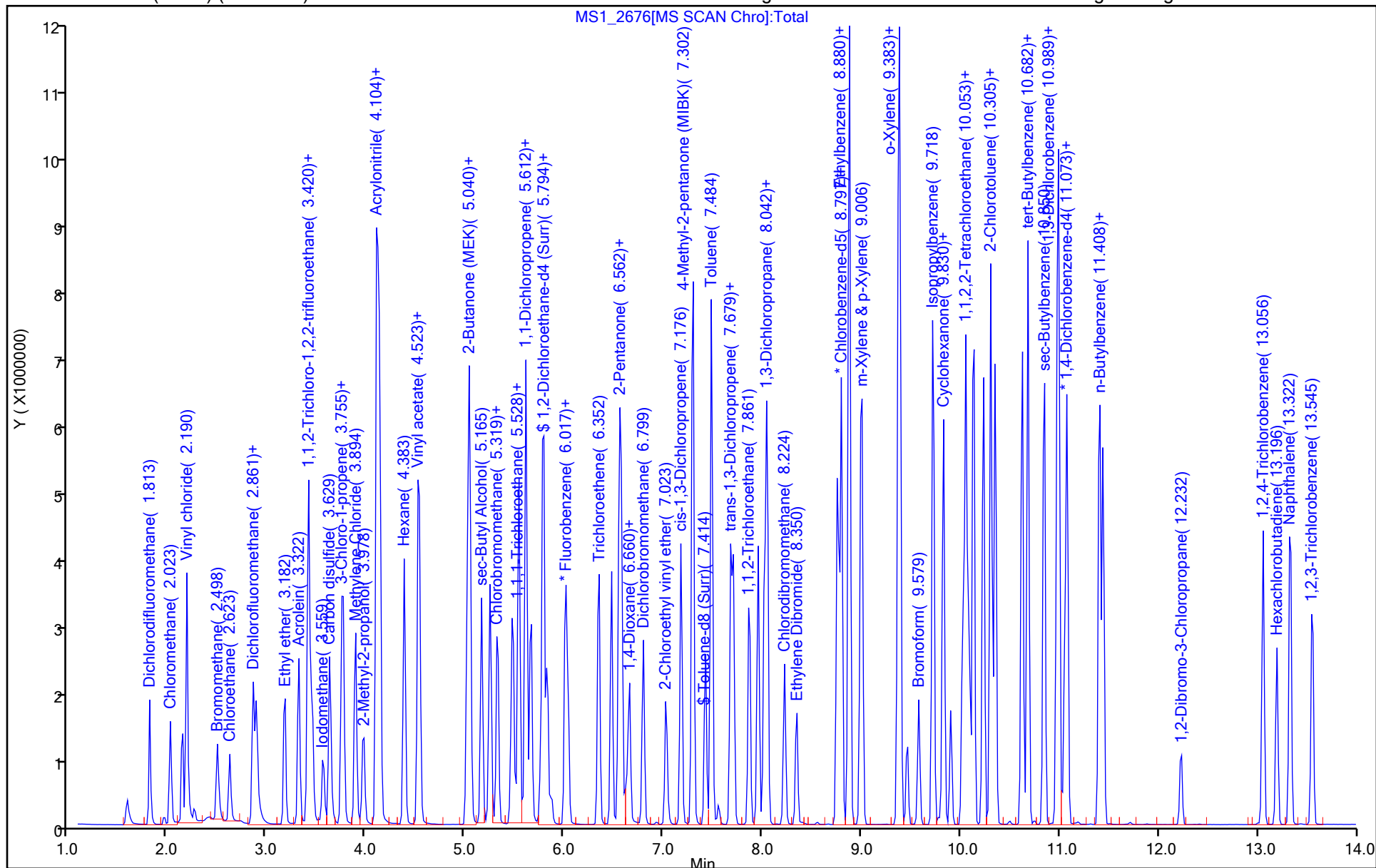
ALS Bottle#: 4

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2677.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 01-Aug-2023 10:13:30 ALS Bottle#: 5 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:20:29 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: AF7X

Date: 01-Aug-2023 11:04:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	99	1615947	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	88	397216	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	98	619031	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	390288	50.0	48.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	489985	50.0	48.6	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1642115	50.0	50.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	85	608093	50.0	49.3	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	611573	100.0	97.1	
10 Chloromethane	50	2.023	2.023	0.000	99	747578	100.0	100.9	
11 Vinyl chloride	62	2.135	2.135	0.000	98	672076	100.0	98.4	
13 Bromomethane	94	2.498	2.498	0.000	91	429673	100.0	96.7	
14 Chloroethane	64	2.623	2.623	0.000	100	424871	100.0	98.6	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	1004294	100.0	99.5	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	807567	100.0	93.0	
18 Ethyl ether	59	3.168	3.182	-0.014	95	573810	100.0	97.8	
20 Acrolein	56	3.322	3.322	0.000	99	1041986	987.5	994.6	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.420	3.420	0.000	94	414879	100.0	105.6	
22 1,1-Dichloroethene	96	3.420	3.420	0.000	98	532424	100.0	92.8	
23 Acetone	43	3.447	3.447	0.000	99	1012733	400.0	423.1	
24 Iodomethane	142	3.559	3.559	0.000	98	639111	100.0	99.3	
26 Carbon disulfide	76	3.629	3.629	0.000	100	1856129	100.0	93.7	
28 Methyl acetate	43	3.755	3.755	0.000	98	1194616	200.0	200.7	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	90	1029343	100.0	101.2	
30 Methylene Chloride	84	3.894	3.894	0.000	93	666505	100.0	103.9	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	99	856257	1000.0	1064.1	
32 Acrylonitrile	53	4.104	4.104	0.000	98	3010218	1000.0	998.4	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	97	1960012	100.0	104.7	
34 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	98	618485	100.0	101.0	
36 Hexane	57	4.383	4.383	0.000	95	807405	100.0	110.0	
38 Vinyl acetate	43	4.523	4.523	0.000	97	2590959	200.0	229.9	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	1184809	100.0	98.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	5.012	5.012	0.000	100	1501870	400.0	401.1	
46 2,2-Dichloropropane	77	5.040	5.040	0.000	89	991673	100.0	100.7	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	83	700709	100.0	102.8	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	1659487	2400.0	2587.1	
52 Tetrahydrofuran	42	5.249	5.249	0.000	88	492429	200.0	197.4	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	267205	100.0	98.0	
53 Chloroform	83	5.319	5.319	0.000	94	1111097	100.0	103.0	
54 1,1,1-Trichloroethane	97	5.473	5.487	-0.014	98	929215	100.0	99.9	
57 Cyclohexane	56	5.542	5.542	0.000	92	1108035	100.0	101.2	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	890876	100.0	95.5	
59 Carbon tetrachloride	117	5.612	5.612	0.000	86	770487	100.0	96.1	
60 Isobutyl alcohol	41	5.654	5.654	0.000	94	694741	2500.0	2619.5	
61 Benzene	78	5.794	5.794	0.000	96	2700147	100.0	93.8	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	97	885375	100.0	92.5	
64 n-Heptane	43	6.003	6.017	-0.014	95	657558	100.0	100.8	
66 Trichloroethene	95	6.352	6.352	0.000	99	663761	100.0	102.0	
67 2-Pentanone	43	6.478	6.478	0.000	99	1860618	320.0	341.6	
68 Methylcyclohexane	55	6.562	6.562	0.000	92	768894	100.0	105.6	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	96	690334	100.0	94.9	
71 1,4-Dioxane	88	6.632	6.632	0.000	94	216249	2000.0	2012.7	
72 Dibromomethane	93	6.660	6.660	0.000	96	391164	100.0	95.7	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	874257	100.0	98.4	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	92	344752	100.0	100.1	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	94	1121277	100.0	99.1	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	2947360	400.0	413.5	
80 Toluene	91	7.484	7.484	0.000	98	2779722	100.0	98.3	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	95	1034462	100.0	97.4	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	907120	100.0	98.1	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	92	564701	100.0	98.7	
89 Tetrachloroethene	164	7.959	7.959	0.000	97	469323	100.0	93.5	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	97	1054117	100.0	101.8	
91 2-Hexanone	43	8.042	8.042	0.000	97	2089105	400.0	397.1	
93 Chlorodibromomethane	129	8.224	8.224	0.000	91	599623	100.0	98.8	
95 Ethylene Dibromide	107	8.350	8.350	0.000	99	603735	100.0	97.9	
96 1-Chlorohexane	91	8.755	8.755	0.000	99	664080	80.0	83.2	
97 Chlorobenzene	112	8.797	8.797	0.000	92	1703191	100.0	93.5	
98 Ethylbenzene	106	8.880	8.880	0.000	99	951122	100.0	94.2	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	44	594781	100.0	96.0	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	1185565	100.0	99.1	
101 o-Xylene	106	9.369	9.369	0.000	97	1158134	100.0	93.1	
103 Styrene	104	9.383	9.383	0.000	95	1999710	100.0	95.5	
104 Bromoform	173	9.579	9.579	0.000	95	425532	100.0	98.5	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	2799075	100.0	93.0	
107 Cyclohexanone	55	9.830	9.830	0.000	94	1363569	3000.0	2798.1	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	94	797103	100.0	102.9	
109 Bromobenzene	156	10.054	10.054	0.000	97	704474	100.0	94.3	
110 trans-1,4-Dichloro-2-butene	53	10.054	10.054	0.000	81	262013	100.0	99.2	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	85	240002	100.0	93.4	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	764563	100.0	93.6	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	682523	100.0	95.1	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	2381099	100.0	93.7	
115 4-Chlorotoluene	126	10.347	10.347	0.000	99	708696	100.0	100.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 tert-Butylbenzene	119	10.626	10.626	0.000	93	1876014	100.0	99.2	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	97	2462696	100.0	99.2	
118 sec-Butylbenzene	134	10.850	10.850	0.000	94	536813	100.0	96.8	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	1297815	100.0	100.6	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	2326156	100.0	100.2	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	1325905	100.0	94.7	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	2077649	100.0	104.6	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	97	1237653	100.0	95.0	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	85	183043	100.0	100.6	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	737776	100.0	102.4	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	98	272563	100.0	94.1	
130 Naphthalene	128	13.336	13.322	0.014	97	2345294	100.0	106.3	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	95	652530	100.0	99.2	
S 147 1,2-Dichloroethene, Total (URS)	95				0		200.0	203.8	
S 154 1,3-Dichloropropene, Total	1				0		200.0	196.5	
S 153 1,2-Dichloroethene, Total	1				0		200.0	203.8	
S 152 Trihalomethanes, Total	1				0		400.0	398.7	
S 151 Total BTEX	1				0			478.4	
S 150 Xylenes, Total (URS)	1				0		200.0	192.2	
S 148 Xylenes, Total	106				0		200.0	192.2	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 50.00

Units: uL

MV-Gas A_00161

Amount Added: 20.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2677.D

Injection Date: 01-Aug-2023 10:13:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: ic

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

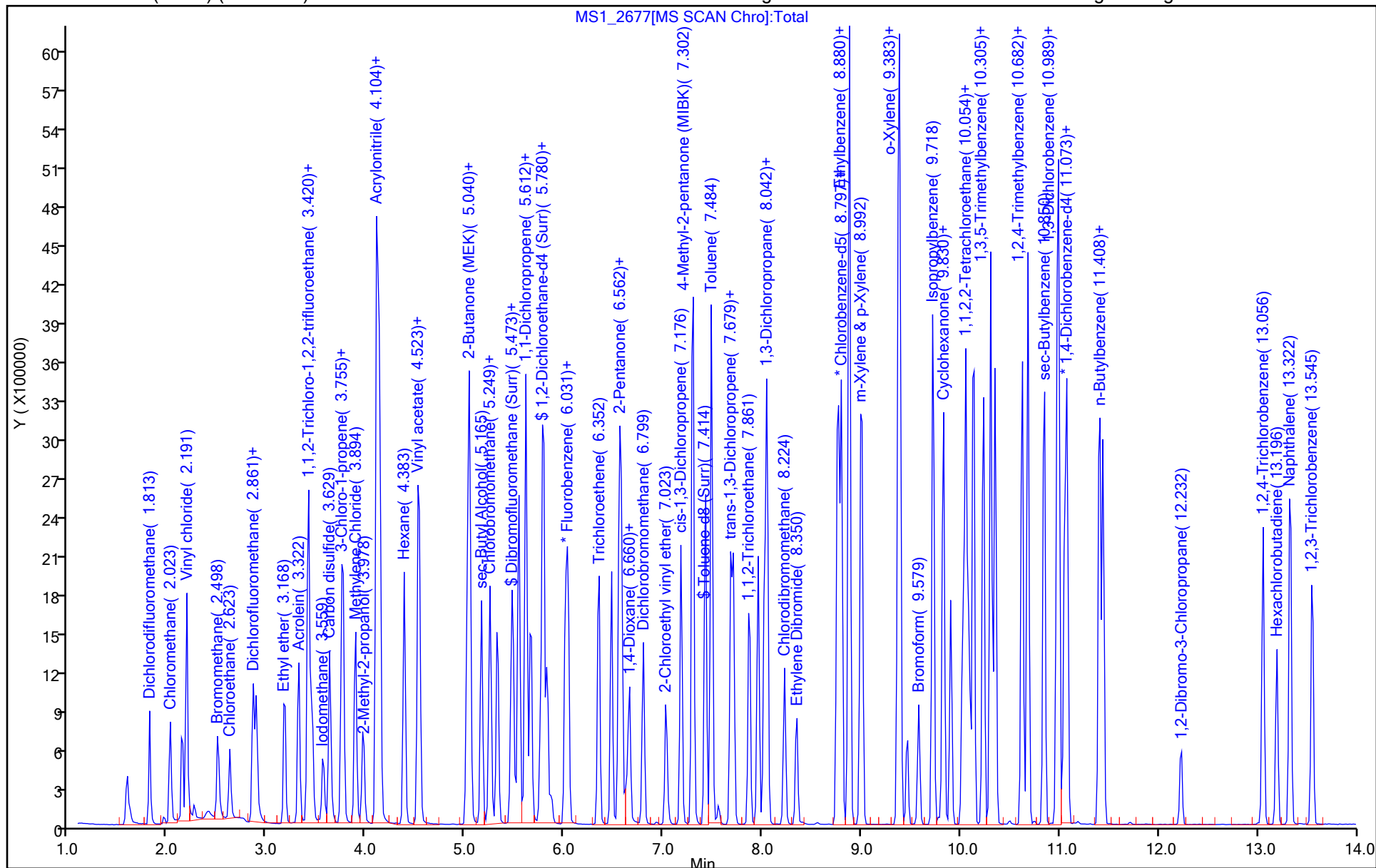
ALS Bottle#: 5

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2678.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-Aug-2023 10:34:30 ALS Bottle#: 6 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:20:36 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: AF7X

Date: 01-Aug-2023 11:29:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1620318	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	391832	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	98	617709	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	92	387869	50.0	48.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	495117	50.0	49.0	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1616952	50.0	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	85	611728	50.0	49.7	
9 Dichlorodifluoromethane	85	1.814	1.813	0.001	99	472499	75.0	74.8	
10 Chloromethane	50	2.023	2.023	0.000	99	550797	75.0	73.9	
11 Vinyl chloride	62	2.149	2.135	0.014	98	511926	75.0	74.6	
13 Bromomethane	94	2.498	2.498	0.000	91	323683	75.0	72.5	
14 Chloroethane	64	2.624	2.623	0.001	100	316223	75.0	72.9	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	749309	75.0	73.8	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	609807	75.0	70.0	
18 Ethyl ether	59	3.182	3.182	0.000	93	415787	75.0	70.6	
20 Acrolein	56	3.322	3.322	0.000	99	767804	740.6	730.9	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.420	3.420	0.000	94	307367	75.0	78.0	
22 1,1-Dichloroethene	96	3.420	3.420	0.000	97	399655	75.0	69.4	
23 Acetone	43	3.462	3.447	0.015	99	771813	300.0	320.5	
24 Iodomethane	142	3.559	3.559	0.000	98	460643	75.0	71.4	
26 Carbon disulfide	76	3.629	3.629	0.000	100	1362219	75.0	68.5	
28 Methyl acetate	43	3.755	3.755	0.000	98	881069	150.0	147.6	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	90	781697	75.0	76.4	
30 Methylene Chloride	84	3.894	3.894	0.000	94	482797	75.0	74.9	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	99	635807	750.0	788.0	
32 Acrylonitrile	53	4.104	4.104	0.000	98	2240742	750.0	741.2	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	97	1448765	75.0	77.2	
34 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	98	454535	75.0	73.9	
36 Hexane	57	4.383	4.383	0.000	95	581118	75.0	80.2	
38 Vinyl acetate	43	4.523	4.523	0.000	97	1873502	150.0	165.8	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	863199	75.0	71.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	5.012	5.012	0.000	100	1113774	300.0	296.6	
46 2,2-Dichloropropane	77	5.054	5.040	0.014	89	725078	75.0	73.3	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	83	509138	75.0	74.4	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	1235045	1800.0	1920.2	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	359724	150.0	143.8	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	198875	75.0	72.6	
53 Chloroform	83	5.319	5.319	0.000	94	817187	75.0	75.4	
54 1,1,1-Trichloroethane	97	5.487	5.487	0.000	99	688037	75.0	73.7	
57 Cyclohexane	56	5.542	5.542	0.000	92	819489	75.0	74.7	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	647981	75.0	69.2	
59 Carbon tetrachloride	117	5.612	5.612	0.000	86	560507	75.0	69.7	
60 Isobutyl alcohol	41	5.654	5.654	0.000	94	516645	1875.0	1942.7	
61 Benzene	78	5.794	5.794	0.000	97	1976157	75.0	68.4	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	98	649876	75.0	67.7	
64 n-Heptane	43	6.003	6.017	-0.014	95	468425	75.0	71.6	
66 Trichloroethene	95	6.353	6.352	0.001	99	492669	75.0	76.6	
67 2-Pentanone	43	6.478	6.478	0.000	99	1387436	240.0	254.0	
68 Methylcyclohexane	55	6.562	6.562	0.000	92	564121	75.0	77.3	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	95	507692	75.0	69.6	
71 1,4-Dioxane	88	6.632	6.632	0.000	96	161222	1500.0	1495.4	
72 Dibromomethane	93	6.660	6.660	0.000	96	285768	75.0	69.7	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	629475	75.0	70.7	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	92	257574	75.0	74.6	
76 cis-1,3-Dichloropropene	75	7.177	7.176	0.001	94	819105	75.0	73.4	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	2198812	300.0	307.7	
80 Toluene	91	7.484	7.484	0.000	98	2051045	75.0	72.3	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	95	753897	75.0	70.8	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	674329	75.0	73.9	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	92	415452	75.0	72.4	
89 Tetrachloroethene	164	7.959	7.959	0.000	97	345000	75.0	69.7	
90 1,3-Dichloropropane	76	8.015	8.014	0.000	97	763581	75.0	74.8	
91 2-Hexanone	43	8.042	8.042	0.000	97	1567182	300.0	302.0	
93 Chlorodibromomethane	129	8.224	8.224	0.000	91	440414	75.0	73.6	
95 Ethylene Dibromide	107	8.350	8.350	0.000	99	443924	75.0	72.9	
96 1-Chlorohexane	91	8.755	8.755	0.000	99	487402	60.0	61.7	
97 Chlorobenzene	112	8.797	8.797	0.000	93	1247059	75.0	69.4	
98 Ethylbenzene	106	8.880	8.880	0.000	99	689130	75.0	69.2	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	434430	75.0	71.1	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	863932	75.0	73.1	
101 o-Xylene	106	9.369	9.369	0.000	97	845713	75.0	68.9	
103 Styrene	104	9.383	9.383	0.000	93	1446903	75.0	70.0	
104 Bromoform	173	9.579	9.579	0.000	95	316214	75.0	74.2	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	2078206	75.0	69.2	
107 Cyclohexanone	55	9.830	9.830	0.000	94	1031442	2250.0	2145.6	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	94	585300	75.0	75.7	
109 Bromobenzene	156	10.054	10.054	0.000	97	510211	75.0	68.4	
110 trans-1,4-Dichloro-2-butene	53	10.054	10.054	0.000	89	194097	75.0	73.7	
111 1,2,3-Trichloropropane	110	10.082	10.081	0.001	85	175842	75.0	68.5	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	565027	75.0	69.3	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	491569	75.0	68.6	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	1737236	75.0	68.5	
115 4-Chlorotoluene	126	10.347	10.347	0.000	99	513593	75.0	73.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	1390255	75.0	73.6	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	1827318	75.0	73.7	
118 sec-Butylbenzene	134	10.850	10.850	0.000	94	387102	75.0	69.9	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	947274	75.0	73.5	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1701274	75.0	73.4	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	95	976403	75.0	69.9	
124 n-Butylbenzene	91	11.394	11.408	-0.014	98	1493901	75.0	75.2	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	97	902693	75.0	69.4	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	84	132895	75.0	73.2	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	528902	75.0	73.5	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	98	191896	75.0	66.4	
130 Naphthalene	128	13.322	13.322	0.000	98	1719118	75.0	77.9	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	96	474524	75.0	72.1	
S 147 1,2-Dichloroethene, Total (URS)	95				0		150.0	148.2	
S 154 1,3-Dichloropropene, Total	1				0		150.0	144.2	
S 153 1,2-Dichloroethene, Total	1				0		150.0	148.2	
S 152 Trihalomethanes, Total	1				0		300.0	293.8	
S 151 Total BTEX	1				0			351.9	
S 150 Xylenes, Total (URS)	1				0		150.0	142.1	
S 148 Xylenes, Total	106				0		150.0	142.1	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 37.50

Units: uL

MV-Gas A_00161

Amount Added: 15.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2678.D

Injection Date: 01-Aug-2023 10:34:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: ic

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

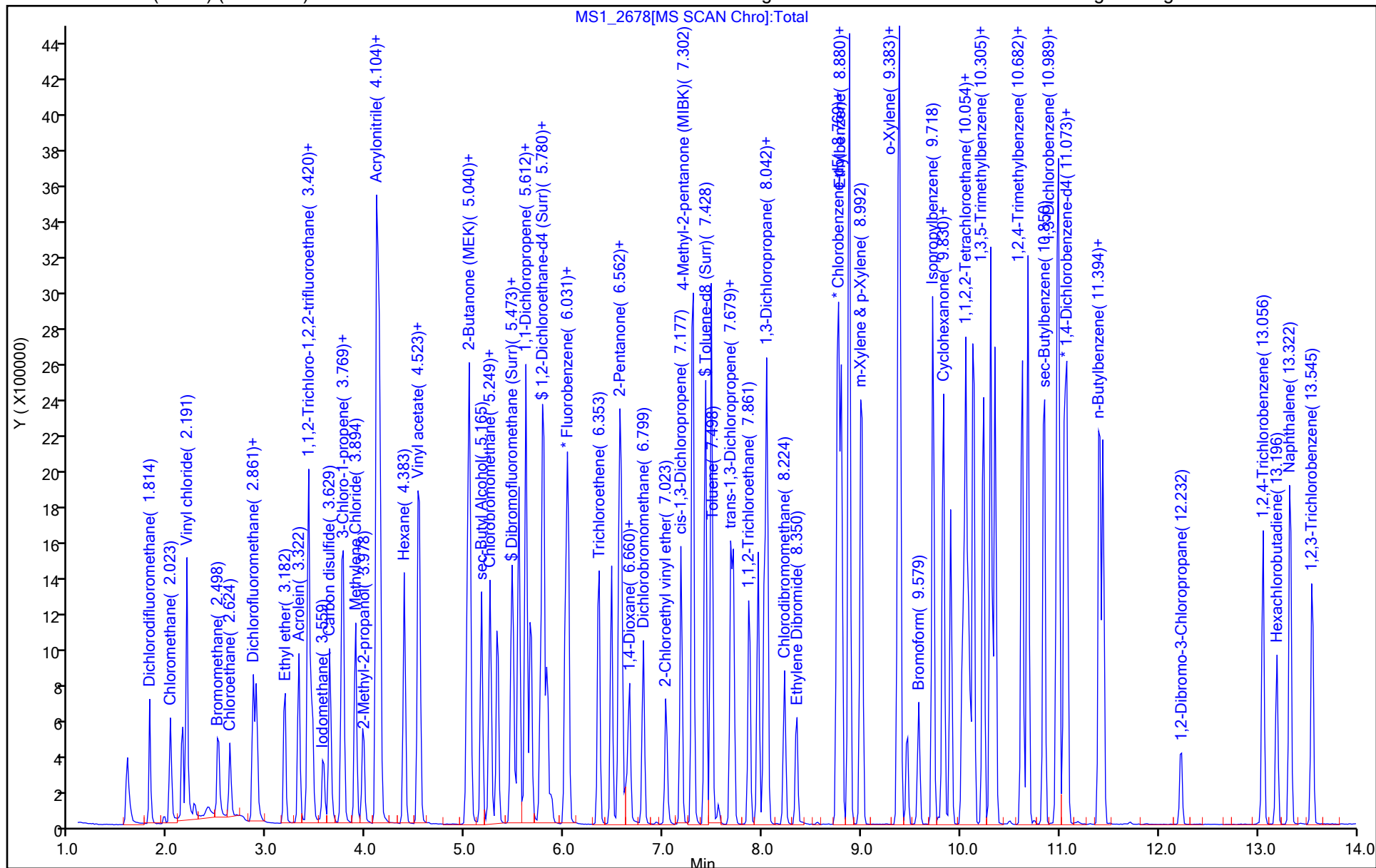
ALS Bottle#: 6

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2679.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 01-Aug-2023 10:55:30 ALS Bottle#: 7 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icis
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:20:42 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: AF7X

Date: 01-Aug-2023 12:21:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1619392	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	88	389086	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	98	615052	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	389166	50.0	48.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	498185	50.0	49.4	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1626168	50.0	50.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	85	606987	50.0	49.5	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	304547	50.0	48.3	
10 Chloromethane	50	2.023	2.023	0.000	99	369920	50.0	49.4	
11 Vinyl chloride	62	2.135	2.135	0.000	98	339363	50.0	49.3	
13 Bromomethane	94	2.498	2.498	0.000	91	216270	50.0	48.3	
14 Chloroethane	64	2.623	2.623	0.000	100	211051	50.0	48.4	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	512409	50.0	50.2	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	398736	50.0	45.8	
18 Ethyl ether	59	3.182	3.182	0.000	92	276224	50.0	47.0	
20 Acrolein	56	3.322	3.322	0.000	99	483240	493.8	460.3	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.420	3.420	0.000	95	197882	50.0	50.2	
22 1,1-Dichloroethene	96	3.420	3.420	0.000	97	263751	50.0	45.9	
23 Acetone	43	3.447	3.447	0.000	99	456108	200.0	187.5	
24 Iodomethane	142	3.559	3.559	0.000	99	298191	50.0	46.2	
26 Carbon disulfide	76	3.629	3.629	0.000	100	892162	50.0	44.9	
28 Methyl acetate	43	3.755	3.755	0.000	98	551315	100.0	92.4	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	90	530171	50.0	51.4	a
30 Methylene Chloride	84	3.894	3.894	0.000	94	318560	50.0	49.3	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	99	392939	500.0	487.3	
32 Acrylonitrile	53	4.104	4.104	0.000	98	1440967	500.0	476.9	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	97	950813	50.0	50.7	
34 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	98	300013	50.0	48.6	
36 Hexane	57	4.383	4.383	0.000	95	368987	50.0	51.3	
38 Vinyl acetate	43	4.523	4.523	0.000	98	1178920	100.0	104.4	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	574511	50.0	47.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	5.012	5.012	0.000	100	714466	200.0	190.4	
46 2,2-Dichloropropane	77	5.040	5.040	0.000	88	472231	50.0	47.6	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	83	339565	50.0	49.5	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	759788	1200.0	1182.0	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	232113	100.0	92.8	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	136793	50.0	49.8	
53 Chloroform	83	5.319	5.319	0.000	94	532018	50.0	48.9	
54 1,1,1-Trichloroethane	97	5.487	5.487	0.000	99	456542	50.0	48.8	
57 Cyclohexane	56	5.542	5.542	0.000	92	525124	50.0	47.9	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	428983	50.0	45.9	
59 Carbon tetrachloride	117	5.612	5.612	0.000	85	368418	50.0	45.8	
60 Isobutyl alcohol	41	5.654	5.654	0.000	94	321917	1250.0	1211.2	
61 Benzene	78	5.794	5.794	0.000	97	1313804	50.0	45.5	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	98	428893	50.0	44.7	
64 n-Heptane	43	6.017	6.017	0.000	94	300531	50.0	45.9	
66 Trichloroethene	95	6.352	6.352	0.000	99	324397	50.0	50.6	
67 2-Pentanone	43	6.478	6.478	0.000	99	861598	160.0	157.8	
68 Methylcyclohexane	55	6.562	6.562	0.000	91	361516	50.0	49.6	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	95	331876	50.0	45.5	
71 1,4-Dioxane	88	6.632	6.632	0.000	95	100328	1000.0	929.5	
72 Dibromomethane	93	6.660	6.660	0.000	96	190483	50.0	46.5	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	414932	50.0	46.6	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	93	164084	50.0	47.6	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	94	538721	50.0	48.6	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	1397565	200.0	195.7	
80 Toluene	91	7.484	7.484	0.000	98	1350434	50.0	47.5	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	96	491386	50.0	46.2	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	435721	50.0	48.1	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	91	273570	50.0	47.7	
89 Tetrachloroethene	164	7.959	7.959	0.000	97	225080	50.0	45.8	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	98	503552	50.0	49.7	
91 2-Hexanone	43	8.042	8.042	0.000	97	993657	200.0	192.8	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	289958	50.0	48.8	
95 Ethylene Dibromide	107	8.350	8.350	0.000	98	290116	50.0	48.0	
96 1-Chlorohexane	91	8.755	8.755	0.000	98	318065	40.0	40.4	
97 Chlorobenzene	112	8.797	8.797	0.000	92	822711	50.0	46.1	
98 Ethylbenzene	106	8.880	8.880	0.000	99	454748	50.0	46.0	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	44	283908	50.0	46.8	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	569698	50.0	48.5	
101 o-Xylene	106	9.369	9.369	0.000	97	562394	50.0	46.2	
103 Styrene	104	9.383	9.383	0.000	95	962320	50.0	46.9	
104 Bromoform	173	9.579	9.579	0.000	95	205088	50.0	48.5	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	1368353	50.0	45.8	
107 Cyclohexanone	55	9.830	9.830	0.000	94	663026	1500.0	1389.0	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	94	375101	50.0	48.7	
109 Bromobenzene	156	10.054	10.054	0.000	97	339837	50.0	45.8	
110 trans-1,4-Dichloro-2-butene	53	10.054	10.054	0.000	84	122670	50.0	46.8	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	85	114373	50.0	44.8	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	371217	50.0	45.8	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	327348	50.0	45.9	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	1145437	50.0	45.4	
115 4-Chlorotoluene	126	10.347	10.347	0.000	99	339103	50.0	48.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	914037	50.0	48.5	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	97	1199462	50.0	48.5	
118 sec-Butylbenzene	134	10.850	10.850	0.000	94	255711	50.0	46.4	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	625910	50.0	48.7	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1115383	50.0	48.2	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	97	637983	50.0	45.9	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	983037	50.0	49.6	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	97	599545	50.0	46.3	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	84	86257	50.0	47.7	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	349139	50.0	48.5	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	98	127020	50.0	44.1	
130 Naphthalene	128	13.322	13.322	0.000	98	1106158	50.0	50.1	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	96	313167	50.0	47.7	
S 147 1,2-Dichloroethene, Total (URS)	0				0		100.0	98.0	
S 154 1,3-Dichloropropene, Total	1				0		100.0	94.8	
S 153 1,2-Dichloroethene, Total	1				0		100.0	98.0	
S 152 Trihalomethanes, Total	1				0		200.0	192.8	
S 150 Xylenes, Total (URS)	1				0		100.0	94.6	
S 148 Xylenes, Total	106				0		100.0	94.6	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00161

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2679.D

Injection Date: 01-Aug-2023 10:55:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: ics

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

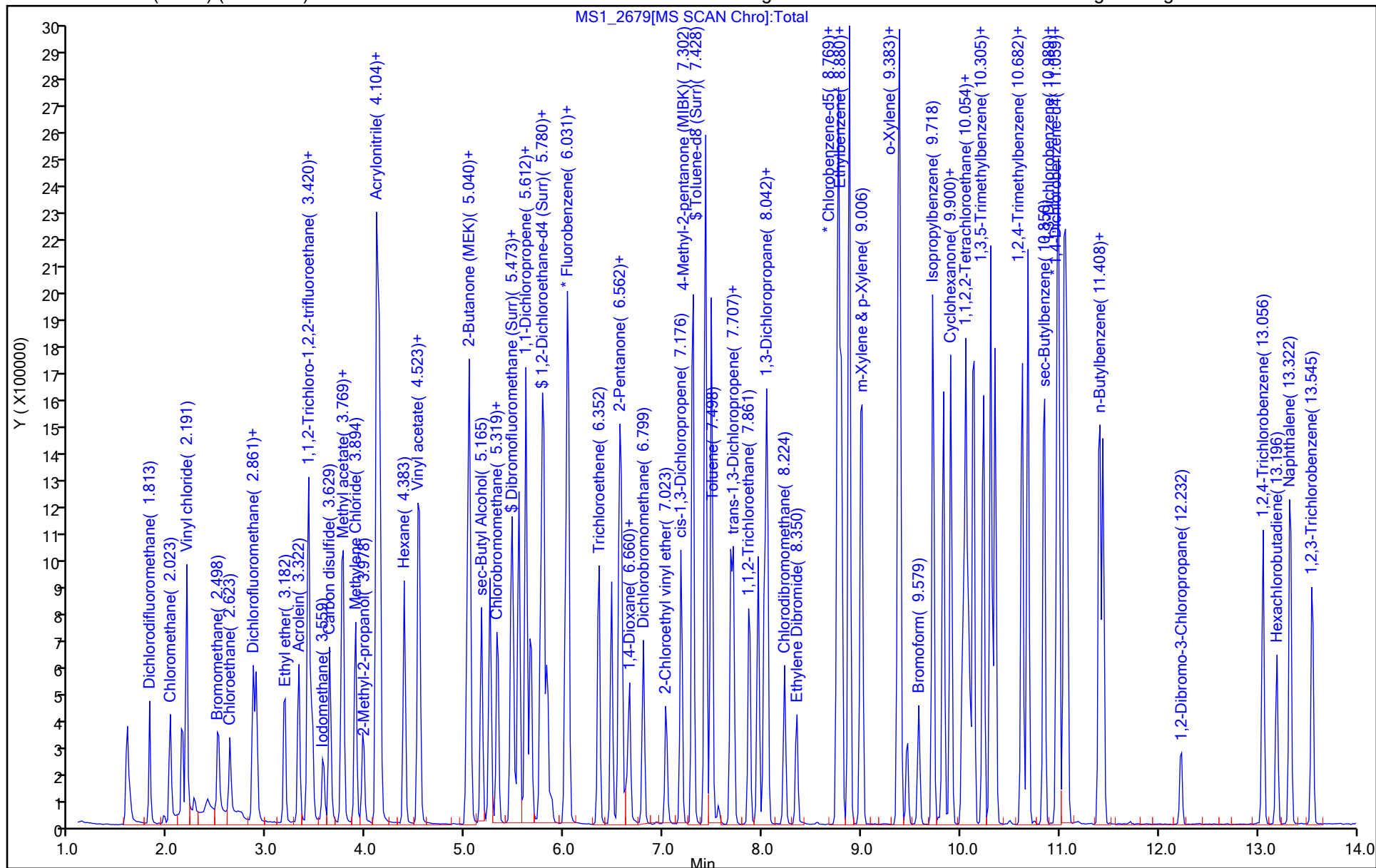
ALS Bottle#: 7

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2679.D

Injection Date: 01-Aug-2023 10:55:30

Instrument ID: VMS_MS1

Lims ID: icis

Client ID:

Operator ID: wickhamt

ALS Bottle#:

7

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

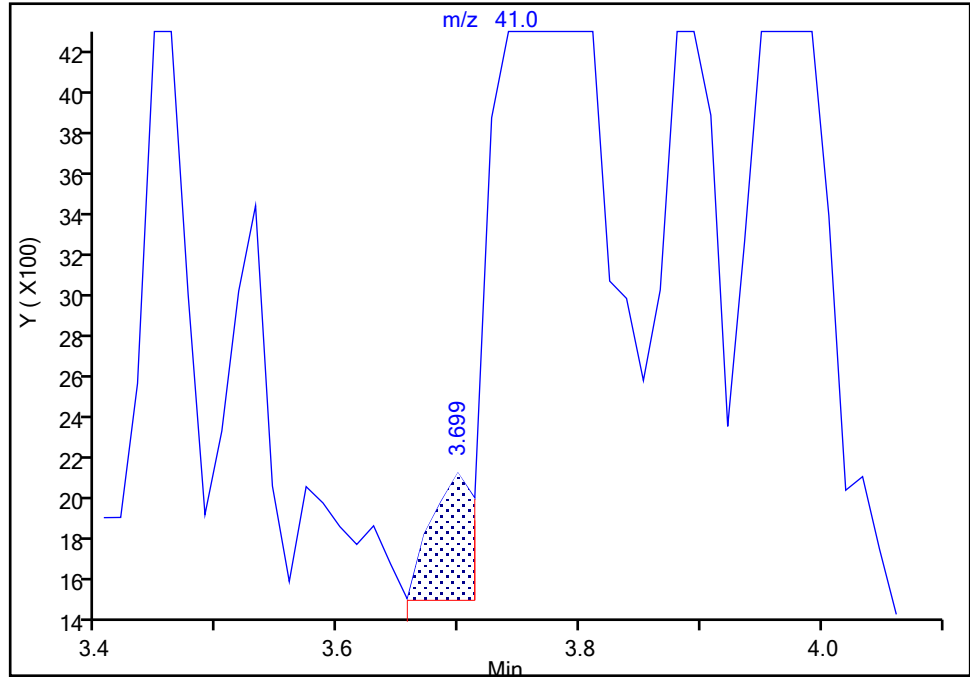
MS SCAN

29 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

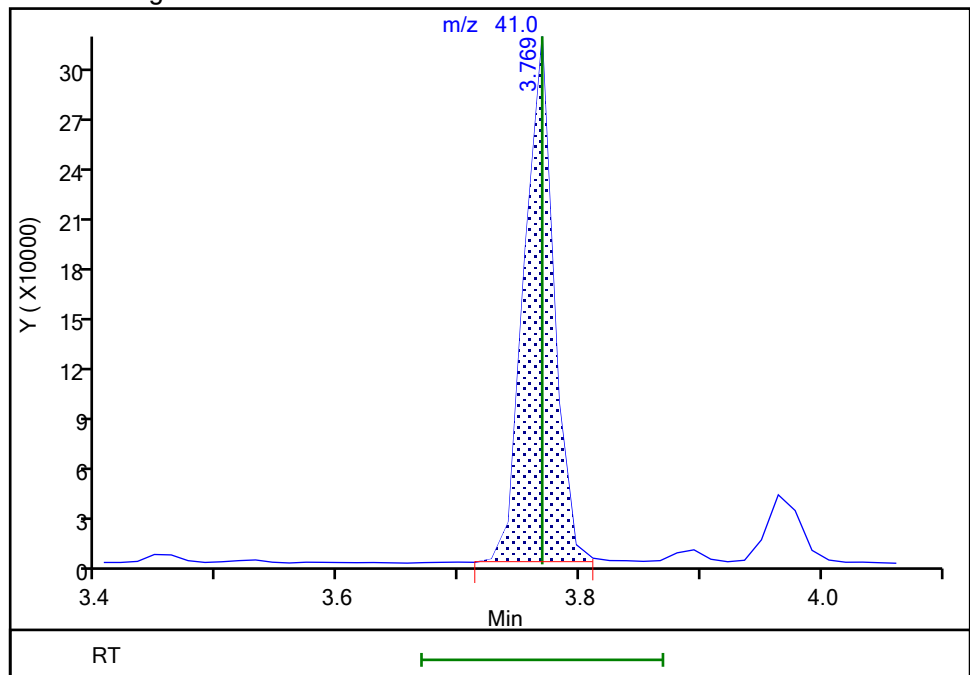
RT: 3.70
Area: 1556
Amount: 0.135618
Amount Units: ug/l

Processing Integration Results



RT: 3.77
Area: 530171
Amount: 51.447964
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 01-Aug-2023 12:48:02 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Wrong peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2680.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 01-Aug-2023 11:17:30 ALS Bottle#: 8 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:20:48 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: AF7X

Date: 01-Aug-2023 12:22:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1526132	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	383553	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	98	594404	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	379130	50.0	50.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	477744	50.0	50.2	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1563100	50.0	49.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	85	600555	50.0	50.7	
9 Dichlorodifluoromethane	85	1.814	1.813	0.001	99	55022	10.0	9.36	
10 Chloromethane	50	2.023	2.023	0.000	99	69649	10.0	9.10	
11 Vinyl chloride	62	2.149	2.135	0.014	98	63819	10.0	9.32	
13 Bromomethane	94	2.512	2.498	0.014	92	44574	10.0	10.1	
14 Chloroethane	64	2.624	2.623	0.001	100	42477	10.0	9.50	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	98378	10.0	9.46	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	97	72981	10.0	8.90	
18 Ethyl ether	59	3.182	3.182	0.000	93	53820	10.0	9.71	
20 Acrolein	56	3.322	3.322	0.000	98	92069	98.8	93.1	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	3.420	3.420	0.000	94	35389	10.0	9.53	
22 1,1-Dichloroethene	96	3.420	3.420	0.000	97	48100	10.0	8.87	
23 Acetone	43	3.462	3.447	0.015	98	98108	40.0	39.1	
24 Iodomethane	142	3.559	3.559	0.000	98	50096	10.0	8.24	
26 Carbon disulfide	76	3.629	3.629	0.000	100	176552	10.0	9.43	
28 Methyl acetate	43	3.755	3.755	0.000	98	105903	20.0	18.8	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	90	102693	10.0	9.65	
30 Methylene Chloride	84	3.895	3.894	0.001	94	63834	10.0	10.0	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	99	75764	100.0	99.7	
32 Acrylonitrile	53	4.104	4.104	0.000	98	286248	100.0	100.5	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	96	175275	10.0	9.91	
34 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	98	59229	10.0	9.70	
36 Hexane	57	4.383	4.383	0.000	95	64403	10.0	9.08	
38 Vinyl acetate	43	4.523	4.523	0.000	97	197807	20.0	18.6	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	97	111688	10.0	9.58	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	5.012	5.012	0.000	100	135024	40.0	38.2	
46 2,2-Dichloropropane	77	5.054	5.040	0.014	89	89560	10.0	9.28	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	83	65043	10.0	9.64	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	145199	240.0	239.7	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	44147	20.0	18.7	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	29278	10.0	10.9	
53 Chloroform	83	5.319	5.319	0.000	94	102865	10.0	9.66	
54 1,1,1-Trichloroethane	97	5.487	5.487	0.000	98	84713	10.0	9.34	
57 Cyclohexane	56	5.543	5.542	0.001	92	93367	10.0	9.03	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	77589	10.0	8.80	
59 Carbon tetrachloride	117	5.612	5.612	0.000	88	69714	10.0	9.20	
60 Isobutyl alcohol	41	5.654	5.654	0.000	93	62325	250.0	248.8	
61 Benzene	78	5.794	5.794	0.000	96	245769	10.0	9.04	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	97	87129	10.0	9.63	
64 n-Heptane	43	6.003	6.017	-0.014	93	52339	10.0	8.40	
66 Trichloroethene	95	6.353	6.352	0.001	98	61875	10.0	9.29	
67 2-Pentanone	43	6.478	6.478	0.000	99	161975	32.0	31.5	
68 Methylcyclohexane	55	6.562	6.562	0.000	91	64454	10.0	9.37	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	95	63479	10.0	9.24	
71 1,4-Dioxane	88	6.632	6.632	0.000	94	22009	200.0	213.1	
72 Dibromomethane	93	6.660	6.660	0.000	96	38088	10.0	9.87	
73 Dichlorobromomethane	83	6.800	6.799	0.001	98	80373	10.0	9.58	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	94	30574	10.0	9.40	
76 cis-1,3-Dichloropropene	75	7.177	7.176	0.001	93	101245	10.0	9.27	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	98	274338	40.0	40.8	
80 Toluene	91	7.484	7.484	0.000	97	262422	10.0	9.53	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	95	94321	10.0	9.41	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	84933	10.0	9.51	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	92	52244	10.0	9.67	
89 Tetrachloroethene	164	7.959	7.959	0.000	97	42331	10.0	8.73	
90 1,3-Dichloropropane	76	8.015	8.014	0.001	98	98510	10.0	9.85	
91 2-Hexanone	43	8.043	8.042	0.001	97	203420	40.0	40.0	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	55099	10.0	9.40	
95 Ethylene Dibromide	107	8.350	8.350	0.000	99	54616	10.0	9.17	
96 1-Chlorohexane	91	8.755	8.755	0.000	97	60099	8.00	7.32	
97 Chlorobenzene	112	8.797	8.797	0.000	94	159398	10.0	9.06	
98 Ethylbenzene	106	8.880	8.880	0.000	99	85243	10.0	8.74	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	54476	10.0	9.11	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	111649	10.0	9.39	
101 o-Xylene	106	9.369	9.369	0.000	98	109524	10.0	9.12	
103 Styrene	104	9.383	9.383	0.000	95	192244	10.0	9.51	
104 Bromoform	173	9.579	9.579	0.000	95	39392	10.0	9.44	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	259462	10.0	8.98	
107 Cyclohexanone	55	9.830	9.830	0.000	95	145603	300.0	309.4	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	93	73196	10.0	9.84	
109 Bromobenzene	156	10.054	10.054	0.000	97	65597	10.0	9.14	
110 trans-1,4-Dichloro-2-butene	53	10.054	10.054	0.000	85	23471	10.0	9.26	
111 1,2,3-Trichloropropane	110	10.082	10.081	0.001	86	24359	10.0	9.87	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	70806	10.0	9.03	
113 2-Chlorotoluene	126	10.235	10.235	0.000	95	63042	10.0	9.14	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	220480	10.0	9.03	
115 4-Chlorotoluene	126	10.347	10.347	0.000	99	65389	10.0	9.42	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	177083	10.0	9.47	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	232749	10.0	9.51	
118 sec-Butylbenzene	134	10.850	10.850	0.000	95	49536	10.0	9.30	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	122640	10.0	9.63	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	213620	10.0	9.32	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	126564	10.0	9.41	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	193669	10.0	9.74	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	120382	10.0	9.62	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	91	18689	10.0	10.7	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	77333	10.0	10.8	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	95	26908	10.0	9.67	
130 Naphthalene	128	13.322	13.322	0.000	98	281444	10.0	12.8	
132 1,2,3-Trichlorobenzene	180	13.545	13.559	-0.014	95	75979	10.0	11.6	
S 147 1,2-Dichloroethene, Total (URS)	95				0		20.0	19.3	
S 154 1,3-Dichloropropene, Total	1				0		20.0	18.7	
S 153 1,2-Dichloroethene, Total	1				0		20.0	19.3	
S 152 Trihalomethanes, Total	1				0		40.0	38.1	
S 151 Total BTEX	1				0			45.8	
S 150 Xylenes, Total (URS)	1				0		20.0	18.5	
S 148 Xylenes, Total	106				0		20.0	18.5	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 5.00

Units: uL

MV-Gas A_00161

Amount Added: 2.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2680.D

Injection Date: 01-Aug-2023 11:17:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: ic

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

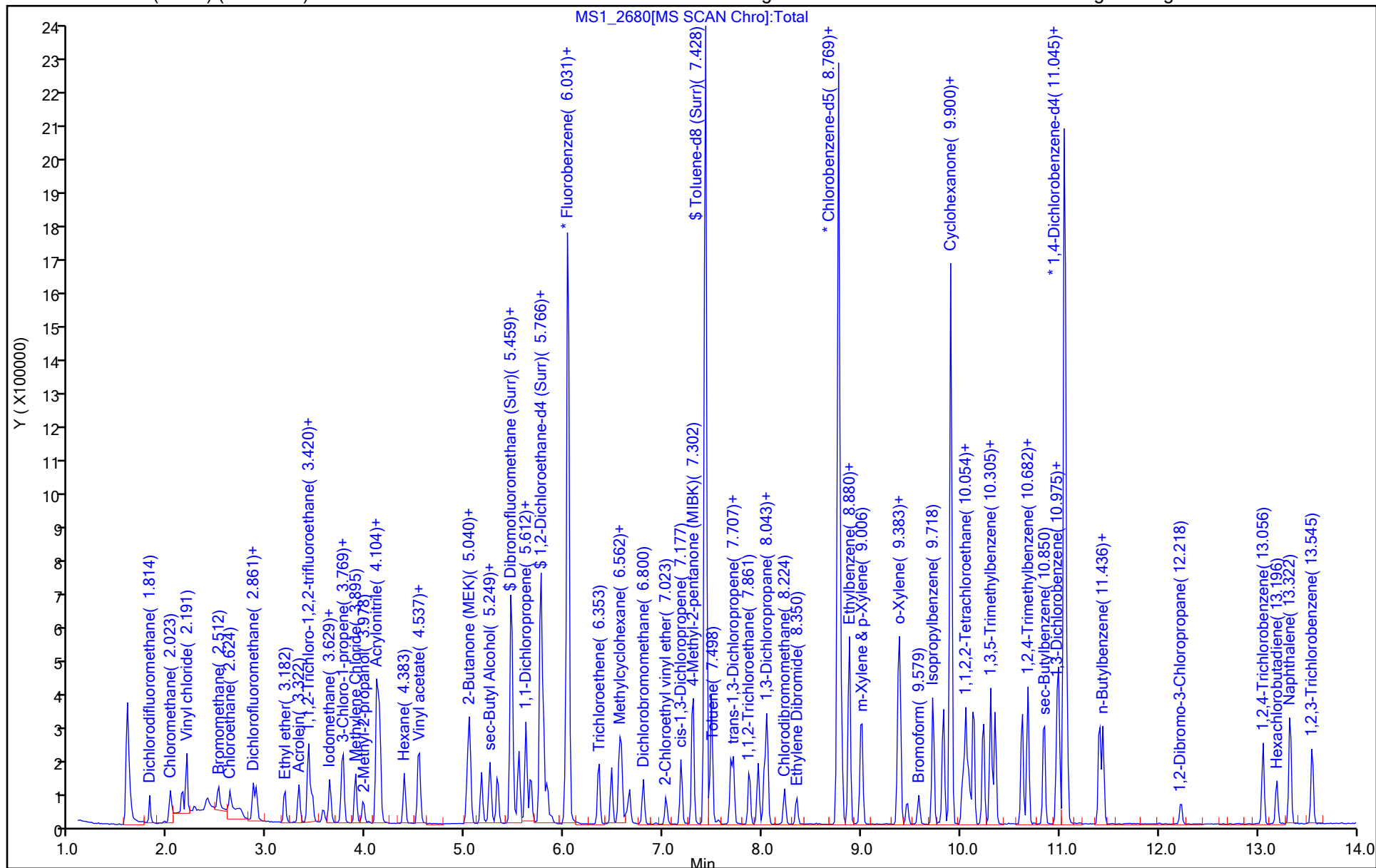
ALS Bottle#: 8

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2681.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 01-Aug-2023 11:38:30 ALS Bottle#: 9 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:20:54 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: AF7X

Date: 01-Aug-2023 12:43:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1505056	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	379430	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	98	590835	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	92	385833	50.0	51.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	483851	50.0	51.6	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1550521	50.0	49.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	86	594903	50.0	50.5	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	99	26539	5.00	4.63	
10 Chloromethane	50	2.023	2.023	0.000	99	45609	5.00	5.72	
11 Vinyl chloride	62	2.135	2.135	0.000	98	38161	5.00	5.39	
13 Bromomethane	94	2.512	2.498	0.014	91	26122	5.00	5.80	
14 Chloroethane	64	2.624	2.623	0.001	99	25231	5.00	5.30	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	60667	5.00	5.56	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	96	37459	5.00	4.63	
18 Ethyl ether	59	3.182	3.182	0.000	93	25476	5.00	4.66	
20 Acrolein	56	3.322	3.322	0.000	99	45822	49.4	47.0	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	3.420	3.420	0.000	94	15016	5.00	4.10	
22 1,1-Dichloroethene	96	3.420	3.420	0.000	96	25678	5.00	4.80	
23 Acetone	43	3.461	3.447	0.014	99	51609	20.0	18.6	
24 Iodomethane	142	3.559	3.559	0.000	97	29338	5.00	4.89	
26 Carbon disulfide	76	3.629	3.629	0.000	99	101112	5.00	5.48	
28 Methyl acetate	43	3.755	3.755	0.000	98	51541	10.0	9.29	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	89	62546	5.00	5.51	
30 Methylene Chloride	84	3.894	3.894	0.000	92	33698	5.00	5.09	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	100	35297	50.0	47.1	
32 Acrylonitrile	53	4.104	4.104	0.000	98	133460	50.0	47.5	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	98	80870	5.00	4.64	
34 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	98	33701	5.00	5.34	
36 Hexane	57	4.383	4.383	0.000	96	28667	5.00	4.09	
38 Vinyl acetate	43	4.523	4.523	0.000	97	95266	10.0	9.07	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	62311	5.00	5.28	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	5.012	5.012	0.000	100	62517	20.0	17.9	
46 2,2-Dichloropropane	77	5.040	5.040	0.000	90	49073	5.00	4.98	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	83	36210	5.00	5.22	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	64665	120.0	108.2	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	21611	10.0	9.30	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	14309	5.00	5.10	
53 Chloroform	83	5.319	5.319	0.000	93	56146	5.00	5.13	
54 1,1,1-Trichloroethane	97	5.473	5.487	-0.014	98	44854	5.00	4.86	
57 Cyclohexane	56	5.542	5.542	0.000	93	41596	5.00	4.08	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	93	41622	5.00	4.79	
59 Carbon tetrachloride	117	5.612	5.612	0.000	86	35599	5.00	4.76	
60 Isobutyl alcohol	41	5.654	5.654	0.000	95	26151	125.0	105.9	
61 Benzene	78	5.794	5.794	0.000	97	133829	5.00	4.99	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	97	44579	5.00	5.00	
64 n-Heptane	43	6.003	6.017	-0.014	90	23756	5.00	3.81	
66 Trichloroethene	95	6.353	6.352	0.000	98	33996	5.00	4.89	
67 2-Pentanone	43	6.478	6.478	0.000	99	73938	16.0	14.6	
68 Methylcyclohexane	55	6.562	6.562	0.000	91	27596	5.00	4.07	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	95	33849	5.00	4.99	
71 1,4-Dioxane	88	6.632	6.632	0.000	90	10902	100.0	104.9	
72 Dibromomethane	93	6.660	6.660	0.000	94	19469	5.00	5.11	
73 Dichlorobromomethane	83	6.799	6.799	0.000	99	39413	5.00	4.76	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	93	16104	5.00	5.02	
76 cis-1,3-Dichloropropene	75	7.177	7.176	0.000	93	48886	5.00	4.52	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	97	124830	20.0	18.8	
80 Toluene	91	7.484	7.484	0.000	98	142027	5.00	5.08	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	96	45110	5.00	4.56	
84 Ethyl methacrylate	69	7.707	7.707	0.000	93	41013	5.00	4.64	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	92	24953	5.00	4.68	
89 Tetrachloroethene	164	7.959	7.959	0.000	96	23065	5.00	4.81	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	96	45444	5.00	4.60	
91 2-Hexanone	43	8.042	8.042	0.000	98	92326	20.0	18.4	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	26272	5.00	4.53	
95 Ethylene Dibromide	107	8.350	8.350	0.000	97	27608	5.00	4.68	
96 1-Chlorohexane	91	8.755	8.755	0.000	92	30582	4.00	3.51	
97 Chlorobenzene	112	8.797	8.797	0.000	94	86557	5.00	4.97	
98 Ethylbenzene	106	8.880	8.880	0.000	99	47114	5.00	4.88	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	42	28323	5.00	4.79	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	60046	5.00	4.97	
101 o-Xylene	106	9.369	9.369	0.000	97	59726	5.00	5.03	
103 Styrene	104	9.383	9.383	0.000	94	94389	5.00	4.72	
104 Bromoform	173	9.579	9.579	0.000	96	19386	5.00	4.70	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	142200	5.00	4.95	
107 Cyclohexanone	55	9.830	9.830	0.000	95	65399	150.0	140.5	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	94	33457	5.00	4.52	
109 Bromobenzene	156	10.054	10.054	0.000	96	33497	5.00	4.70	
110 trans-1,4-Dichloro-2-butene	53	10.054	10.054	0.000	84	11417	5.00	4.53	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	86	11428	5.00	4.66	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	37744	5.00	4.84	
113 2-Chlorotoluene	126	10.235	10.235	0.000	95	32631	5.00	4.76	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	95	119224	5.00	4.91	
115 4-Chlorotoluene	126	10.347	10.347	0.000	98	35935	5.00	5.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	96423	5.00	5.05	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	126360	5.00	5.07	
118 sec-Butylbenzene	134	10.850	10.850	0.000	94	25609	5.00	4.84	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	63264	5.00	4.86	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	114367	5.00	4.88	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	65231	5.00	4.88	
124 n-Butylbenzene	91	11.394	11.408	-0.014	99	100197	5.00	4.85	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	98	61549	5.00	4.95	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	83	8543	5.00	4.92	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	36362	5.00	4.85	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	95	13507	5.00	4.88	
130 Naphthalene	128	13.322	13.322	0.000	98	123313	5.00	5.32	
132 1,2,3-Trichlorobenzene	180	13.545	13.559	-0.014	95	33940	5.00	4.96	
S 147 1,2-Dichloroethene, Total (URS)	95				0		10.0	10.6	
S 154 1,3-Dichloropropene, Total	1				0		10.0	9.09	
S 153 1,2-Dichloroethene, Total	1				0		10.0	10.6	
S 152 Trihalomethanes, Total	1				0		20.0	19.1	
S 151 Total BTEX	1				0			24.9	
S 150 Xylenes, Total (URS)	1				0		10.0	10.0	
S 148 Xylenes, Total	106				0		10.0	10.0	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 2.50

Units: uL

MV-Gas A_00161

Amount Added: 1.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2681.D

Injection Date: 01-Aug-2023 11:38:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: ic

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

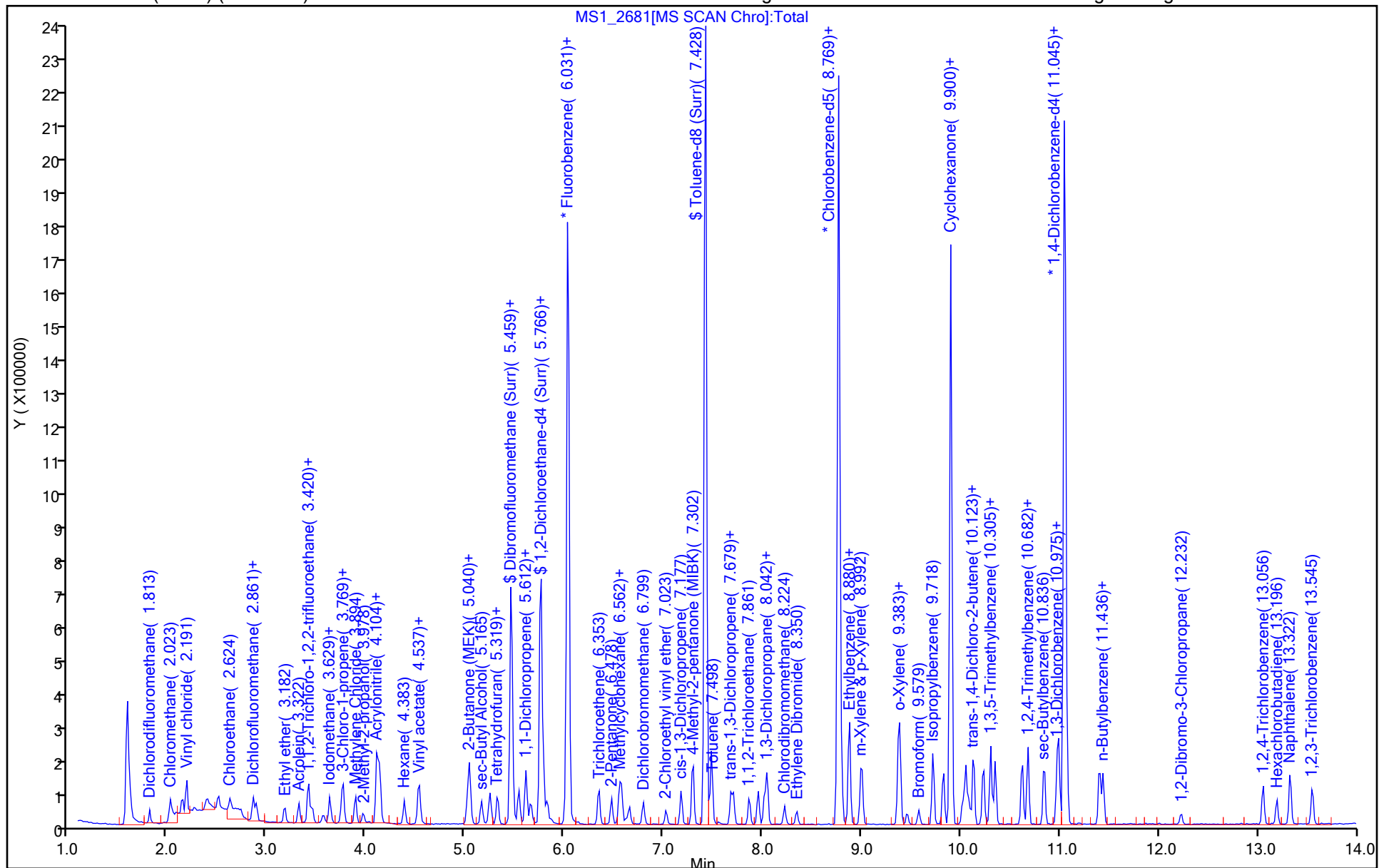
ALS Bottle#: 9

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2682.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 01-Aug-2023 11:59:30 ALS Bottle#: 10 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:21:00 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: AF7X

Date: 01-Aug-2023 12:45:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1514225	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	381387	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	98	606446	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	92	386555	50.0	51.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	486341	50.0	51.5	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1562839	50.0	49.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	85	599699	50.0	49.6	
9 Dichlorodifluoromethane	85	1.813	1.813	0.000	98	9975	2.00	1.80	
10 Chloromethane	50	2.023	2.023	0.000	99	20214	2.00	1.99	
11 Vinyl chloride	62	2.135	2.135	0.000	97	17445	2.00	2.10	
13 Bromomethane	94	2.498	2.498	0.000	91	11136	2.00	2.15	
14 Chloroethane	64	2.623	2.623	0.000	97	13669	2.00	2.37	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	27056	2.00	1.93	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	17602	2.00	2.16	
18 Ethyl ether	59	3.182	3.182	0.000	91	11834	2.00	2.15	
20 Acrolein	56	3.322	3.322	0.000	98	17638	19.8	18.0	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.420	3.420	0.000	95	6723	2.00	1.83	
22 1,1-Dichloroethene	96	3.420	3.420	0.000	98	12604	2.00	2.34	
23 Acetone	43	3.461	3.447	0.014	99	27822	8.00	7.76	
24 Iodomethane	142	3.559	3.559	0.000	98	12468	2.00	2.07	
26 Carbon disulfide	76	3.629	3.629	0.000	100	48114	2.00	2.59	
28 Methyl acetate	43	3.755	3.755	0.000	98	19478	4.00	3.49	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	89	31067	2.00	2.13	
30 Methylene Chloride	84	3.894	3.894	0.000	96	14555	2.00	1.86	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	97	14371	20.0	19.1	
32 Acrylonitrile	53	4.104	4.104	0.000	99	54692	20.0	19.4	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	98	32301	2.00	1.84	
34 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	97	15165	2.00	2.05	
36 Hexane	57	4.383	4.383	0.000	93	12216	2.00	1.73	
38 Vinyl acetate	43	4.523	4.523	0.000	97	38532	4.00	3.65	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	28589	2.00	2.23	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	5.012	5.012	0.000	99	29806	8.00	8.49	
46 2,2-Dichloropropane	77	5.040	5.040	0.000	89	23123	2.00	2.13	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	83	15807	2.00	1.97	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	25592	48.0	42.6	
52 Tetrahydrofuran	42	5.249	5.249	0.000	90	9036	4.00	3.86	
51 Chlorobromomethane	128	5.249	5.249	0.000	97	6360	2.00	1.94	
53 Chloroform	83	5.319	5.319	0.000	95	24677	2.00	1.97	
54 1,1,1-Trichloroethane	97	5.487	5.487	-0.001	98	22370	2.00	2.24	
57 Cyclohexane	56	5.542	5.542	0.000	93	20369	2.00	1.99	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	94	19555	2.00	2.24	
59 Carbon tetrachloride	117	5.612	5.612	0.000	82	15650	2.00	2.08	
60 Isobutyl alcohol	41	5.668	5.654	0.014	91	12372	50.0	49.8	
61 Benzene	78	5.794	5.794	0.000	98	60761	2.00	2.25	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	95	19125	2.00	2.13	
64 n-Heptane	43	6.003	6.017	-0.014	85	10309	2.00	1.58	
66 Trichloroethene	95	6.352	6.352	0.000	97	17234	2.00	2.16	
67 2-Pentanone	43	6.478	6.478	0.000	99	29575	6.40	5.79	
68 Methylcyclohexane	55	6.562	6.562	0.000	91	13331	2.00	1.95	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	95	14335	2.00	2.10	
71 1,4-Dioxane	88	6.632	6.632	0.000	90	4132	40.0	36.8	
72 Dibromomethane	93	6.660	6.660	0.000	97	7604	2.00	1.99	
73 Dichlorobromomethane	83	6.799	6.799	0.000	97	16489	2.00	1.98	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	91	6717	2.00	2.08	
76 cis-1,3-Dichloropropene	75	7.176	7.176	0.000	93	20923	2.00	1.93	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	98	51004	8.00	7.64	
80 Toluene	91	7.484	7.484	0.000	97	68043	2.00	2.24	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	96	19968	2.00	2.01	
84 Ethyl methacrylate	69	7.707	7.707	0.000	89	18832	2.00	2.12	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	88	10613	2.00	1.98	
89 Tetrachloroethene	164	7.959	7.959	0.000	95	10160	2.00	2.11	
90 1,3-Dichloropropane	76	8.014	8.014	0.000	96	17825	2.00	1.79	
91 2-Hexanone	43	8.042	8.042	0.000	97	39456	8.00	7.81	
93 Chlorodibromomethane	129	8.224	8.224	0.000	91	11697	2.00	2.01	
95 Ethylene Dibromide	107	8.350	8.350	0.000	98	10971	2.00	1.85	
96 1-Chlorohexane	91	8.755	8.755	0.000	86	16551	1.60	1.65	
97 Chlorobenzene	112	8.797	8.797	-0.001	97	39166	2.00	2.24	
98 Ethylbenzene	106	8.880	8.880	0.000	98	22165	2.00	2.29	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	41	12447	2.00	2.09	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	29413	2.00	2.27	
101 o-Xylene	106	9.369	9.369	0.000	97	26566	2.00	2.22	
103 Styrene	104	9.383	9.383	0.000	95	44591	2.00	2.22	
104 Bromoform	173	9.579	9.579	0.000	94	8003	2.00	1.93	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	66868	2.00	2.27	
107 Cyclohexanone	55	9.830	9.830	0.000	93	29777	60.0	63.6	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	94	14522	2.00	1.91	
109 Bromobenzene	156	10.053	10.054	-0.001	96	15549	2.00	2.12	
110 trans-1,4-Dichloro-2-butene	53	10.053	10.054	-0.001	58	4787	2.00	1.85	
111 1,2,3-Trichloropropane	110	10.081	10.081	0.000	86	4807	2.00	1.91	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	17958	2.00	2.24	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	16707	2.00	2.38	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	55771	2.00	2.24	
115 4-Chlorotoluene	126	10.347	10.347	0.000	98	15637	2.00	1.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 tert-Butylbenzene	119	10.626	10.626	0.000	93	44700	2.00	2.11	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	58209	2.00	2.12	
118 sec-Butylbenzene	134	10.850	10.850	0.000	94	11947	2.00	2.20	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	30248	2.00	2.10	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	98	55807	2.00	2.17	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	29575	2.00	2.16	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	45637	2.00	1.90	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	95	24687	2.00	1.93	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	81	3733	2.00	2.09	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	93	17164	2.00	1.98	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	94	6521	2.00	2.30	
130 Naphthalene	128	13.322	13.322	0.000	97	58272	2.00	2.14	
132 1,2,3-Trichlorobenzene	180	13.545	13.559	-0.014	94	16892	2.00	2.16	
S 147 1,2-Dichloroethene, Total (URS)	95				0		4.00	4.03	
S 154 1,3-Dichloropropene, Total	1				0		4.00	3.93	
S 153 1,2-Dichloroethene, Total	1				0		4.00	4.03	
S 152 Trihalomethanes, Total	1				0		8.00	7.88	
S 151 Total BTEX	1				0			11.3	
S 150 Xylenes, Total (URS)	1				0		4.00	4.49	
S 148 Xylenes, Total	106				0		4.00	4.49	

QC Flag Legend

Processing Flags

Reagents:

Cal Dil Std_00216

Amount Added: 20.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2682.D

Injection Date: 01-Aug-2023 11:59:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: ic

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

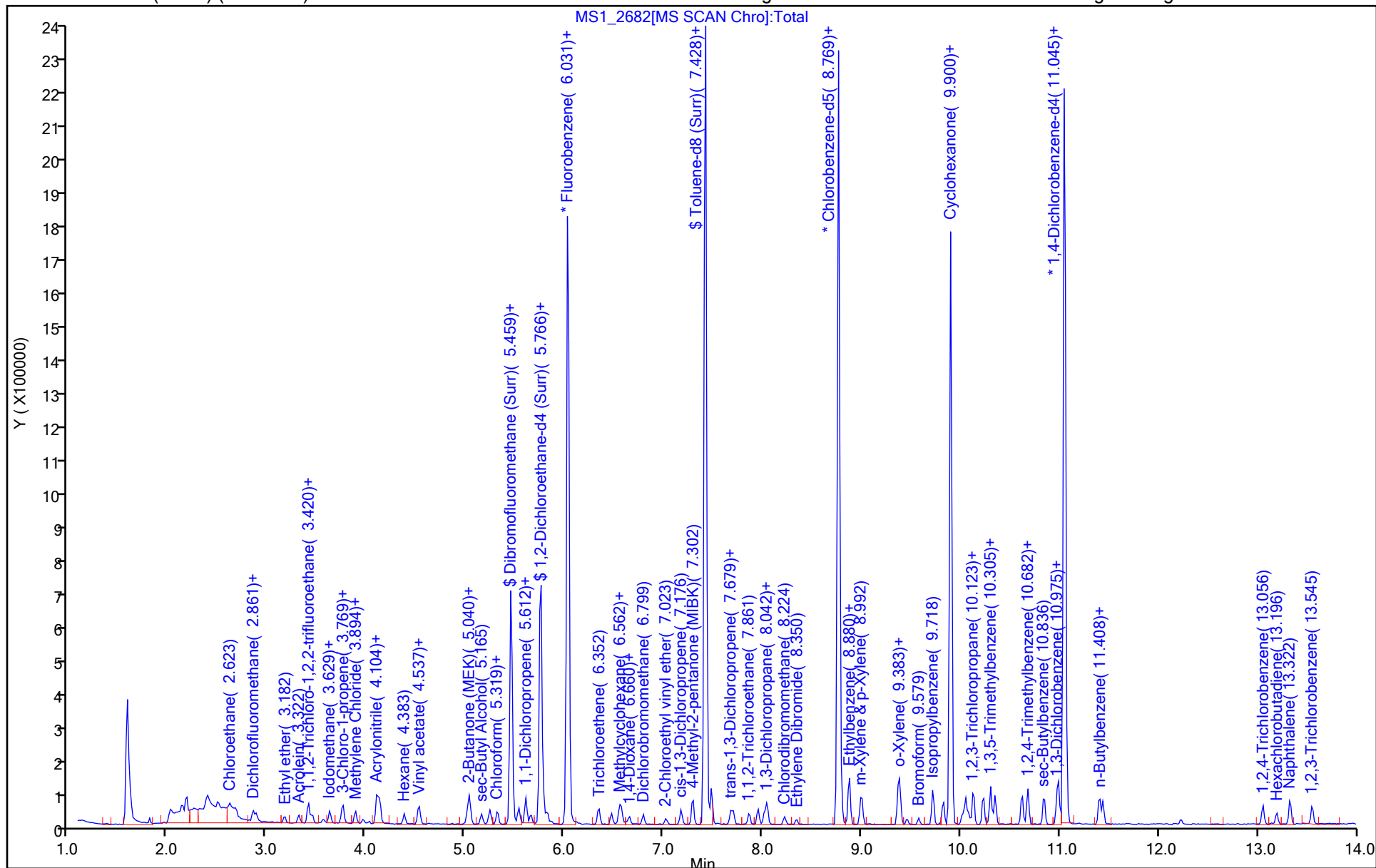
ALS Bottle#: 10

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2683.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2023 12:21:30 ALS Bottle#: 11 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:21:05 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: AF7X

Date: 01-Aug-2023 12:47:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1421716	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	356205	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	98	557937	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	92	358910	50.0	51.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	447009	50.0	50.4	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1471517	50.0	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	86	557854	50.0	50.2	
9 Dichlorodifluoromethane	85	1.814	1.813	0.001	99	5021	1.00	1.02	
10 Chloromethane	50	2.023	2.023	0.000	97	12478	1.00	0.9830	
11 Vinyl chloride	62	2.135	2.135	0.000	98	9626	1.00	0.9669	
13 Bromomethane	94	2.512	2.498	0.014	86	5736	1.00	0.9321	
14 Chloroethane	64	2.624	2.623	0.001	97	7342	1.00	0.9024	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	15511	1.00	0.8082	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	96	9104	1.00	1.19	
18 Ethyl ether	59	3.182	3.182	0.000	92	5792	1.00	1.12	
20 Acrolein	56	3.322	3.322	0.000	95	10240	9.88	11.1	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	3.420	3.420	0.000	66	3826	1.00	1.11	
22 1,1-Dichloroethene	96	3.420	3.420	0.000	98	6378	1.00	1.26	
23 Acetone	43	3.462	3.447	0.015	100	18558	4.00	4.12	
24 Iodomethane	142	3.559	3.559	0.000	98	6345	1.00	1.12	
26 Carbon disulfide	76	3.629	3.629	0.000	99	27588	1.00	1.58	
28 Methyl acetate	43	3.755	3.755	0.000	97	11517	2.00	2.20	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	91	18739	1.00	0.9505	
30 Methylene Chloride	84	3.895	3.894	0.001	92	9047	1.00	1.03	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	96	7305	10.0	10.3	
32 Acrylonitrile	53	4.104	4.104	0.000	100	28155	10.0	10.6	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	97	15570	1.00	0.9454	
34 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	98	8462	1.00	0.9764	
36 Hexane	57	4.383	4.383	0.000	94	7104	1.00	1.08	
38 Vinyl acetate	43	4.523	4.523	0.000	97	19346	2.00	1.95	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	14760	1.00	1.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	5.026	5.012	0.014	99	15381	4.00	4.67	
46 2,2-Dichloropropane	77	5.040	5.040	0.000	88	13389	1.00	1.16	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	86	9056	1.00	1.00	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	12420	24.0	22.0	
52 Tetrahydrofuran	42	5.249	5.249	0.000	62	4919	2.00	2.24	
51 Chlorobromomethane	128	5.249	5.249	0.000	96	3738	1.00	1.00	
53 Chloroform	83	5.319	5.319	0.000	91	14105	1.00	1.01	
54 1,1,1-Trichloroethane	97	5.473	5.487	-0.014	94	11689	1.00	1.10	
57 Cyclohexane	56	5.543	5.542	0.001	93	10681	1.00	1.11	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	92	10630	1.00	1.29	
59 Carbon tetrachloride	117	5.612	5.612	0.000	84	9327	1.00	1.32	
60 Isobutyl alcohol	41	5.654	5.654	0.000	93	5526	25.0	23.7	
61 Benzene	78	5.780	5.794	-0.014	93	33032	1.00	1.30	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	95	11162	1.00	1.32	
64 n-Heptane	43	6.003	6.017	-0.014	75	7956	1.00	1.28	
66 Trichloroethene	95	6.353	6.352	0.001	96	9203	1.00	0.9711	
67 2-Pentanone	43	6.478	6.478	0.000	99	16049	3.20	3.35	
68 Methylcyclohexane	55	6.548	6.562	-0.014	90	7139	1.00	1.11	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	91	6975	1.00	1.09	
71 1,4-Dioxane	88	6.618	6.632	-0.014	88	2562	20.0	22.9	
72 Dibromomethane	93	6.660	6.660	0.000	94	4465	1.00	1.24	
73 Dichlorobromomethane	83	6.800	6.799	0.001	98	8858	1.00	1.13	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	90	3431	1.00	1.13	
76 cis-1,3-Dichloropropene	75	7.177	7.176	0.001	94	11524	1.00	1.14	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	96	24393	4.00	3.89	
80 Toluene	91	7.484	7.484	0.000	98	36834	1.00	1.15	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	95	10046	1.00	1.08	
84 Ethyl methacrylate	69	7.707	7.707	0.000	89	8990	1.00	1.08	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	88	6019	1.00	1.20	
89 Tetrachloroethene	164	7.959	7.959	0.000	90	5264	1.00	1.17	
90 1,3-Dichloropropane	76	8.029	8.014	0.015	92	10209	1.00	1.10	
91 2-Hexanone	43	8.043	8.042	0.001	97	19247	4.00	4.08	
93 Chlorodibromomethane	129	8.224	8.224	0.000	87	6029	1.00	1.11	
95 Ethylene Dibromide	107	8.350	8.350	0.000	99	6328	1.00	1.14	
96 1-Chlorohexane	91	8.755	8.755	0.000	70	10170	0.8000	0.9059	
97 Chlorobenzene	112	8.797	8.797	0.000	95	21139	1.00	1.29	
98 Ethylbenzene	106	8.880	8.880	0.000	99	11845	1.00	1.31	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	41	6181	1.00	1.11	
100 m-Xylene & p-Xylene	106	8.992	9.006	-0.014	0	15314	1.00	1.13	
101 o-Xylene	106	9.369	9.369	0.000	97	14498	1.00	1.30	
103 Styrene	104	9.383	9.383	0.000	95	23627	1.00	1.26	
104 Bromoform	173	9.579	9.579	0.000	94	4088	1.00	1.06	
105 Isopropylbenzene	105	9.718	9.718	0.000	96	34740	1.00	1.28	
107 Cyclohexanone	55	9.830	9.830	0.000	94	15048	30.0	34.4	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	90	7179	1.00	1.03	
109 Bromobenzene	156	10.054	10.054	0.000	96	8002	1.00	1.19	
110 trans-1,4-Dichloro-2-butene	53	10.054	10.054	0.000	48	3217	1.00	1.35	
111 1,2,3-Trichloropropane	110	10.082	10.081	0.001	82	2667	1.00	1.15	
112 N-Propylbenzene	120	10.123	10.137	-0.014	99	9453	1.00	1.28	
113 2-Chlorotoluene	126	10.235	10.235	0.000	95	7912	1.00	1.22	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	30020	1.00	1.31	
115 4-Chlorotoluene	126	10.347	10.347	0.000	98	9216	1.00	1.17	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 tert-Butylbenzene	119	10.626	10.626	0.000	93	24434	1.00	1.13	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	31507	1.00	1.13	
118 sec-Butylbenzene	134	10.836	10.850	-0.014	95	6002	1.00	1.20	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	16713	1.00	1.14	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	30382	1.00	1.16	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	15928	1.00	1.26	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	26620	1.00	1.03	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	95	13534	1.00	1.15	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	70	1661	1.00	1.01	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	9515	1.00	1.01	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	92	3346	1.00	1.28	
130 Naphthalene	128	13.322	13.322	0.000	97	30315	1.00	0.9634	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	94	8439	1.00	0.9601	
S 147 1,2-Dichloroethene, Total (URS)	95				0		2.00	1.98	
S 154 1,3-Dichloropropene, Total	1				0		2.00	2.21	
S 153 1,2-Dichloroethene, Total	1				0		2.00	1.98	
S 152 Trihalomethanes, Total	1				0		4.00	4.30	
S 151 Total BTEX	1				0			6.19	
S 150 Xylenes, Total (URS)	1				0		2.00	2.43	
S 148 Xylenes, Total	106				0		2.00	2.43	

QC Flag Legend

Processing Flags

Reagents:

Cal Dil Std_00216

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Aug-2023 14:21:06

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2683.D

Injection Date: 01-Aug-2023 12:21:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: ic

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

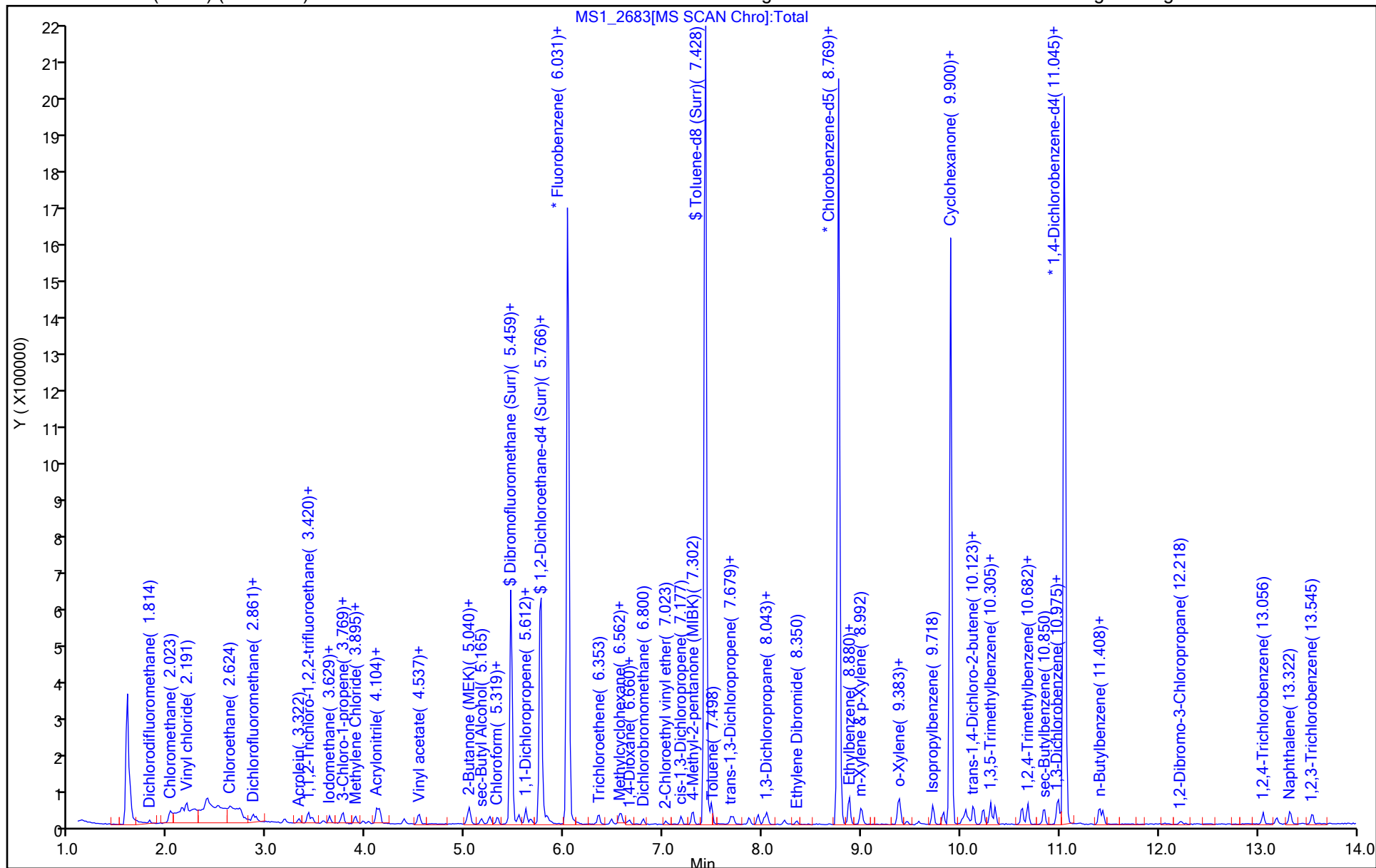
ALS Bottle#: 11

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

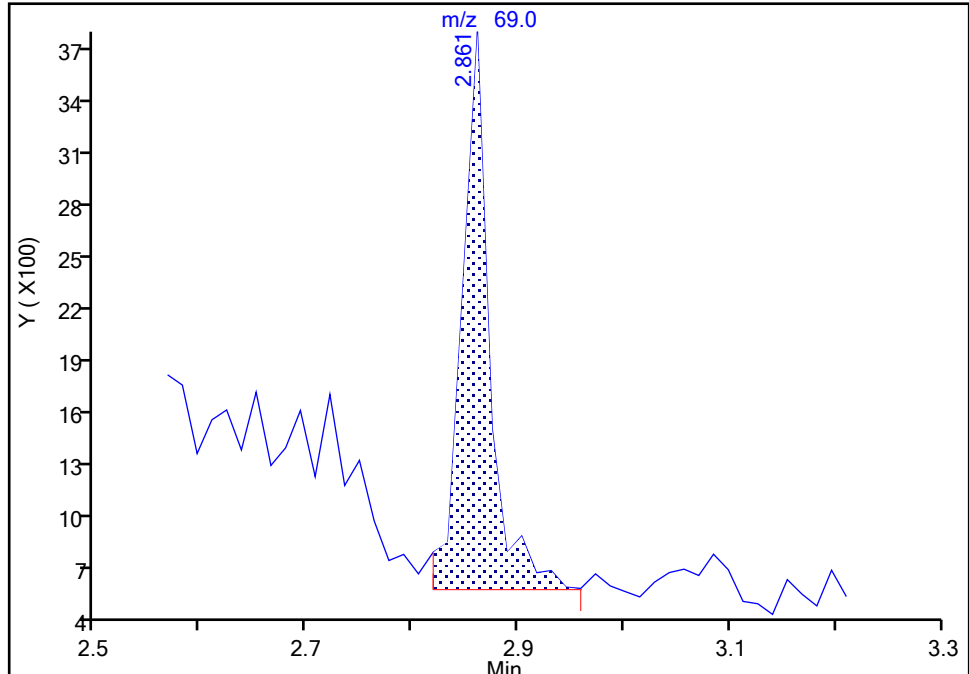
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Injection Date: 01-Aug-2023 12:21:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 11 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 2

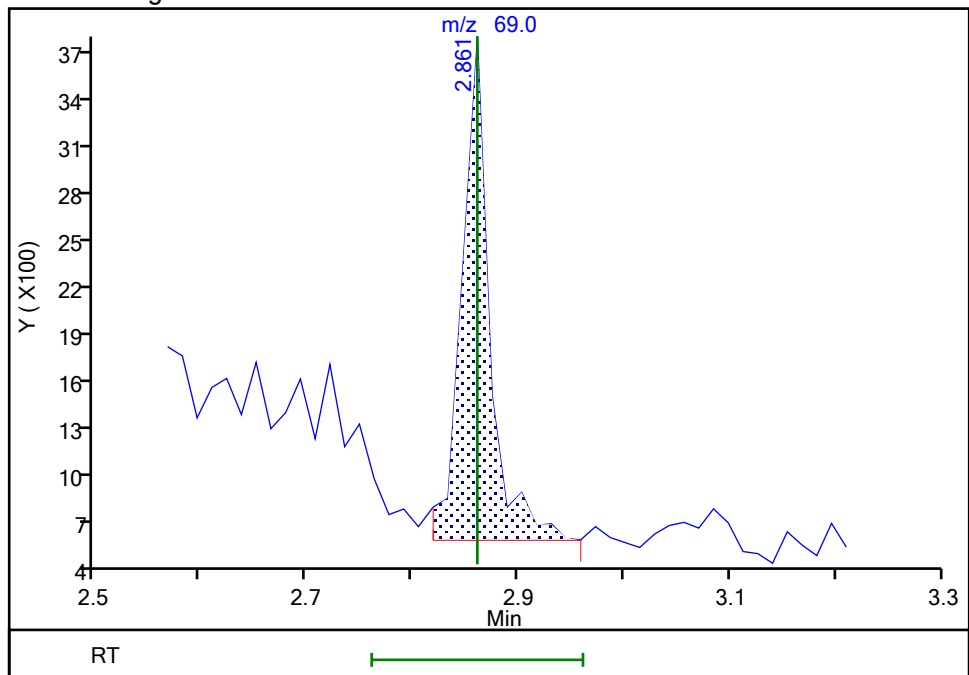
RT: 2.86
Area: 5672
Amount: 0.967361
Amount Units: ug/l

Processing Integration Results



RT: 2.86
Area: 5672
Amount: 0.808188
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:17:54 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 01-Aug-2023 12:42:30 ALS Bottle#: 12 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:21:11 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: Q2ZS

Date: 01-Aug-2023 14:05:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1427607	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	360362	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	98	553568	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	361021	50.0	51.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	451597	50.0	50.7	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1474323	50.0	49.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	86	555514	50.0	50.4	
9 Dichlorodifluoromethane	85	1.814	1.813	0.001	95	2841	0.5000	0.6255	a
10 Chloromethane	50		2.023				ND	ND	U
11 Vinyl chloride	62		2.135				ND	ND	U
13 Bromomethane	94		2.498				ND	ND	U
14 Chloroethane	64		2.623				ND	ND	U
15 Dichlorofluoromethane	67	2.861	2.861	0.000	95	8314	0.5000	-0.0139	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	96	4441	0.5000	0.5789	
18 Ethyl ether	59	3.168	3.182	-0.014	85	2856	0.5000	0.5508	
20 Acrolein	56	3.322	3.322	0.000	91	5332	4.94	5.76	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.420	3.420	0.000	57	1802	0.5000	0.5190	
22 1,1-Dichloroethene	96	3.420	3.420	0.000	96	3435	0.5000	0.6775	
23 Acetone	43	3.462	3.447	0.015	98	17102	2.00	3.39	
24 Iodomethane	142	3.559	3.559	0.000	96	3489	0.5000	0.6135	
26 Carbon disulfide	76	3.629	3.629	0.000	97	14082	0.5000	0.8043	
28 Methyl acetate	43	3.755	3.755	0.000	85	6701	1.00	1.27	
29 3-Chloro-1-propene	41		3.769				ND	ND	U
30 Methylene Chloride	84		3.894				ND	ND	U
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	93	3401	5.00	4.78	
32 Acrylonitrile	53	4.104	4.104	0.000	100	14893	5.00	5.59	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	90	9083	0.5000	0.5493	
34 trans-1,2-Dichloroethene	96		4.146				ND	ND	U
36 Hexane	57	4.397	4.383	0.014	91	3393	0.5000	0.5094	
38 Vinyl acetate	43	4.523	4.523	0.000	98	8009	1.00	0.8043	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	95	8270	0.5000	0.4630	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43		5.012				ND	ND	U
46 2,2-Dichloropropane	77	5.040	5.040	0.000	67	7285	0.5000	0.4534	
45 cis-1,2-Dichloroethene	96		5.040				ND	ND	U
49 sec-Butyl Alcohol	45	5.166	5.165	0.001	98	7764	12.0	13.7	
52 Tetrahydrofuran	42	5.249	5.249	0.000	75	2668	1.00	1.21	
51 Chlorobromomethane	128		5.249				ND	ND	U
53 Chloroform	83		5.319				ND	ND	U
54 1,1,1-Trichloroethane	97	5.473	5.487	-0.014	96	6541	0.5000	0.4636	
57 Cyclohexane	56	5.543	5.542	0.001	88	5743	0.5000	0.5938	
58 1,1-Dichloropropene	75		5.612				ND	ND	U
59 Carbon tetrachloride	117		5.612				ND	ND	U
60 Isobutyl alcohol	41	5.654	5.654	0.000	89	3349	12.5	14.3	
61 Benzene	78		5.794				ND	ND	U
62 1,2-Dichloroethane	62		5.822				ND	ND	U
64 n-Heptane	43	6.017	6.017	0.000	37	4652	0.5000	0.7002	
66 Trichloroethene	95		6.352				ND	ND	U
67 2-Pentanone	43	6.478	6.478	0.000	96	7702	1.60	1.60	
68 Methylcyclohexane	55	6.562	6.562	0.000	83	3206	0.5000	0.4985	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	92	3903	0.5000	0.6070	
71 1,4-Dioxane	88	6.632	6.632	0.000	81	1296	10.0	9.40	
72 Dibromomethane	93		6.660				ND	ND	U
73 Dichlorobromomethane	83	6.800	6.799	0.001	95	4507	0.5000	0.5742	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	75	1428	0.5000	0.4695	
76 cis-1,3-Dichloropropene	75	7.177	7.176	0.001	91	5987	0.5000	0.5834	
79 4-Methyl-2-pentanone (MIBK)	43	7.288	7.302	-0.014	96	13584	2.00	2.16	
80 Toluene	91	7.484	7.484	0.000	97	19426	0.5000	0.4474	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	95	5936	0.5000	0.6328	
84 Ethyl methacrylate	69	7.707	7.707	0.000	87	4625	0.5000	0.5514	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	87	2601	0.5000	0.5144	
89 Tetrachloroethene	164	7.959	7.959	0.000	90	2791	0.5000	0.6129	
90 1,3-Dichloropropane	76	8.015	8.014	0.001	93	5177	0.5000	0.5512	
91 2-Hexanone	43	8.043	8.042	0.001	97	11377	2.00	2.38	
93 Chlorodibromomethane	129	8.224	8.224	0.000	89	3064	0.5000	0.5566	
95 Ethylene Dibromide	107	8.336	8.350	-0.014	92	3400	0.5000	0.6075	
96 1-Chlorohexane	91	8.755	8.755	0.000	37	6480	0.4000	0.3768	
97 Chlorobenzene	112		8.797				ND	ND	U
98 Ethylbenzene	106		8.880				ND	ND	U
99 1,1,1,2-Tetrachloroethane	131	8.881	8.880	0.001	40	3341	0.5000	0.5944	
100 m-Xylene & p-Xylene	106	8.992	9.006	-0.014	0	8181	0.5000	0.4533	
101 o-Xylene	106		9.369				ND	ND	U
103 Styrene	104		9.383				ND	ND	U
104 Bromoform	173	9.579	9.579	0.000	90	2305	0.5000	0.5880	
105 Isopropylbenzene	105		9.718				ND	ND	U
107 Cyclohexanone	55	9.830	9.830	0.000	93	7727	15.0	17.5	
108 1,1,2,2-Tetrachloroethane	83	10.012	10.026	-0.014	91	3777	0.5000	0.5451	
109 Bromobenzene	156	10.054	10.054	0.000	97	3962	0.5000	0.5929	
110 trans-1,4-Dichloro-2-butene	53		10.054				ND	ND	U
111 1,2,3-Trichloropropane	110	10.082	10.081	0.001	75	1503	0.5000	0.6537	
112 N-Propylbenzene	120		10.137				ND	ND	U
113 2-Chlorotoluene	126		10.235				ND	ND	U
114 1,3,5-Trimethylbenzene	105		10.305				ND	ND	U
115 4-Chlorotoluene	126	10.347	10.347	0.000	98	4698	0.5000	0.4597	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 tert-Butylbenzene	119	10.626	10.626	0.000	93	13007	0.5000	0.4620	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	97	16452	0.5000	0.4610	
118 sec-Butylbenzene	134		10.850				ND	ND	U
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	96	8708	0.5000	0.4599	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	96	15400	0.5000	0.4516	
121 1,4-Dichlorobenzene	146		11.073				ND	ND	U
124 n-Butylbenzene	91		11.408				ND	ND	U
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	93	6945	0.5000	0.5961	
126 1,2-Dibromo-3-Chloropropane	157		12.232				ND	ND	
128 1,2,4-Trichlorobenzene	180		13.056				ND	ND	U
129 Hexachlorobutadiene	225		13.196				ND	ND	U
130 Naphthalene	128	13.322	13.322	0.000	97	16881	0.5000	0.2912	
132 1,2,3-Trichlorobenzene	180	13.545	13.559	-0.014	90	5659	0.5000	0.4967	
S 147 1,2-Dichloroethene, Total (URS)	95				0		1.00	0	
S 154 1,3-Dichloropropene, Total	1				0		1.00	1.22	
S 153 1,2-Dichloroethene, Total	1				0		1.00	0	
S 152 Trihalomethanes, Total	1				0		2.00	1.72	
S 151 Total BTEX	1				0			0.9007	
S 150 Xylenes, Total (URS)	1				0		1.00	0.4533	
S 148 Xylenes, Total	106				0		1.00	0.4533	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

Cal Dil Std_00216

Amount Added: 5.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: ic

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

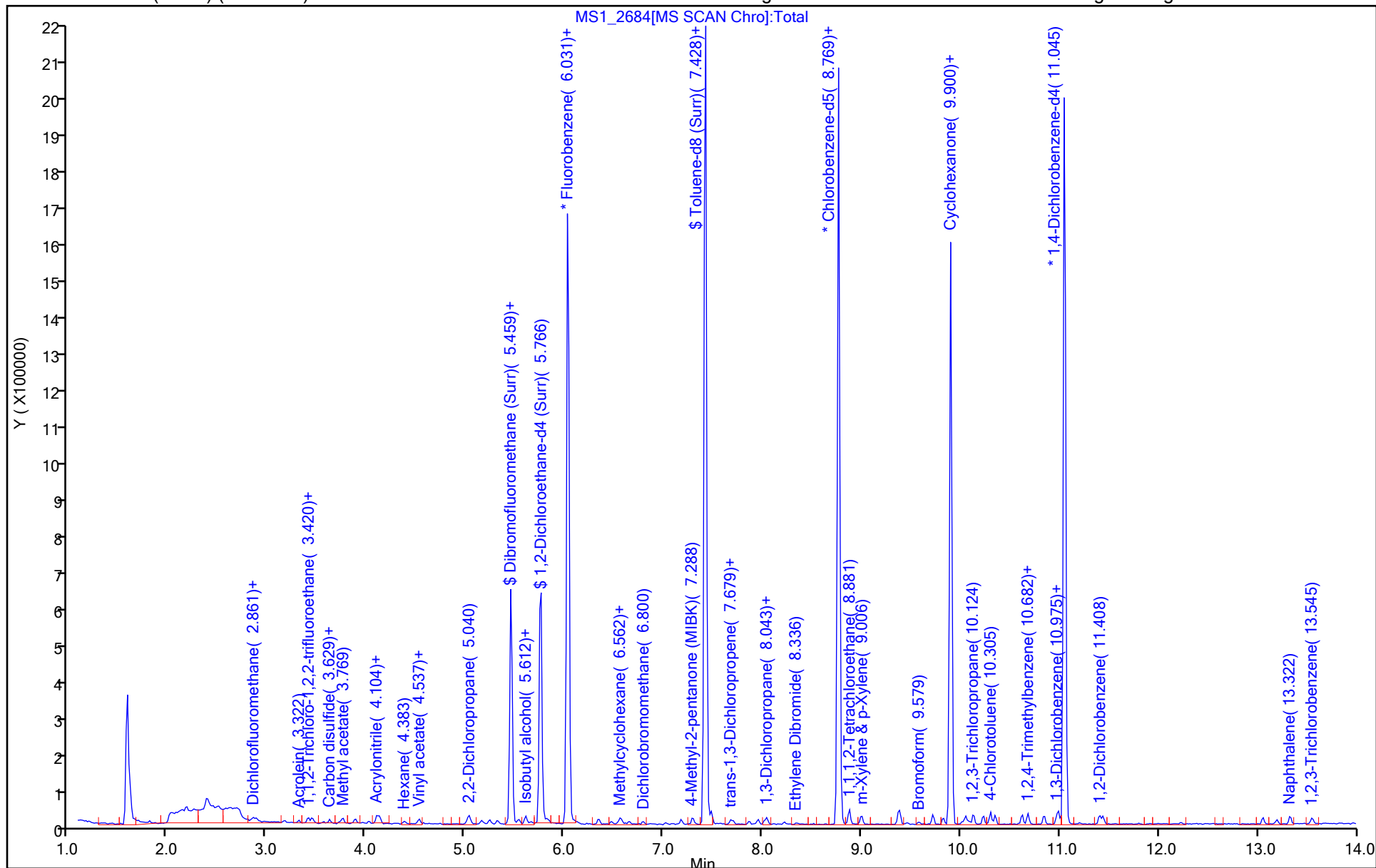
ALS Bottle#: 12

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

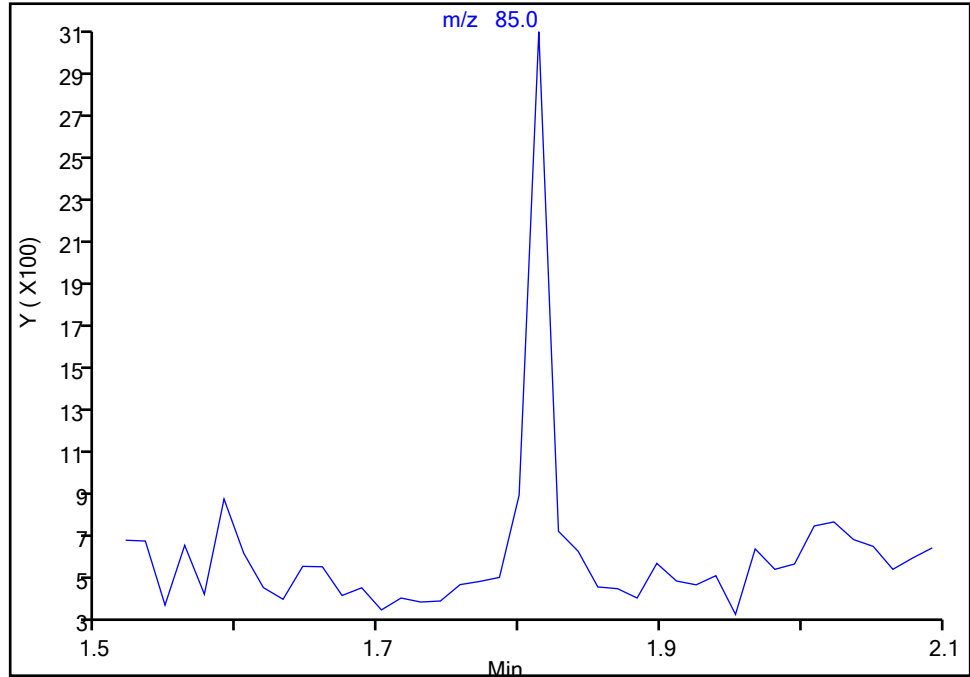
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Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

9 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

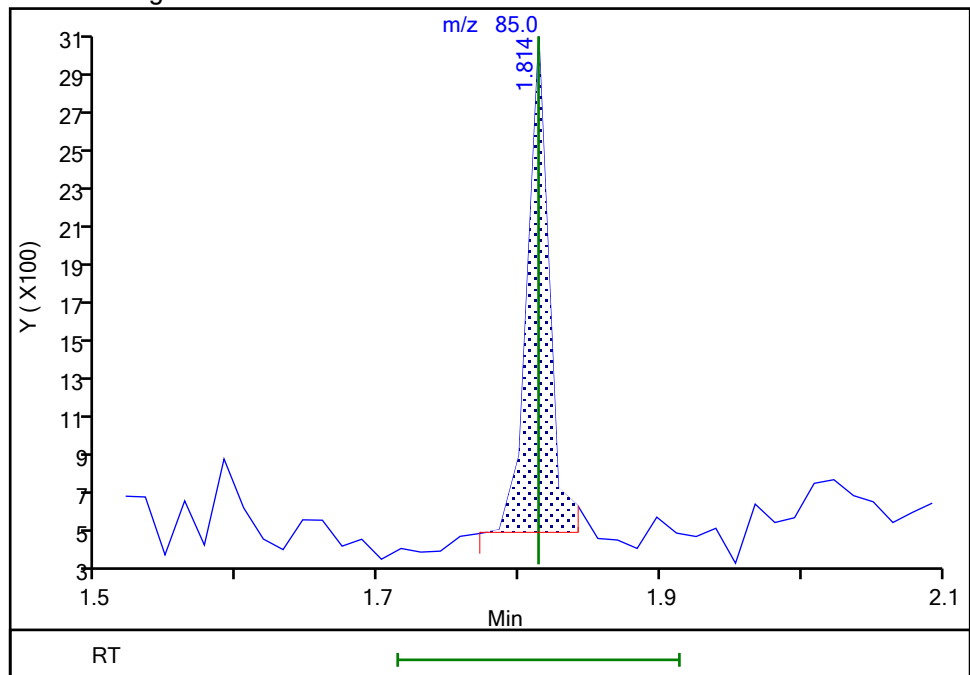
Not Detected
Expected RT: 1.81

Processing Integration Results



RT: 1.81
Area: 2841
Amount: 0.625479
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 13:55:31 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins Denver

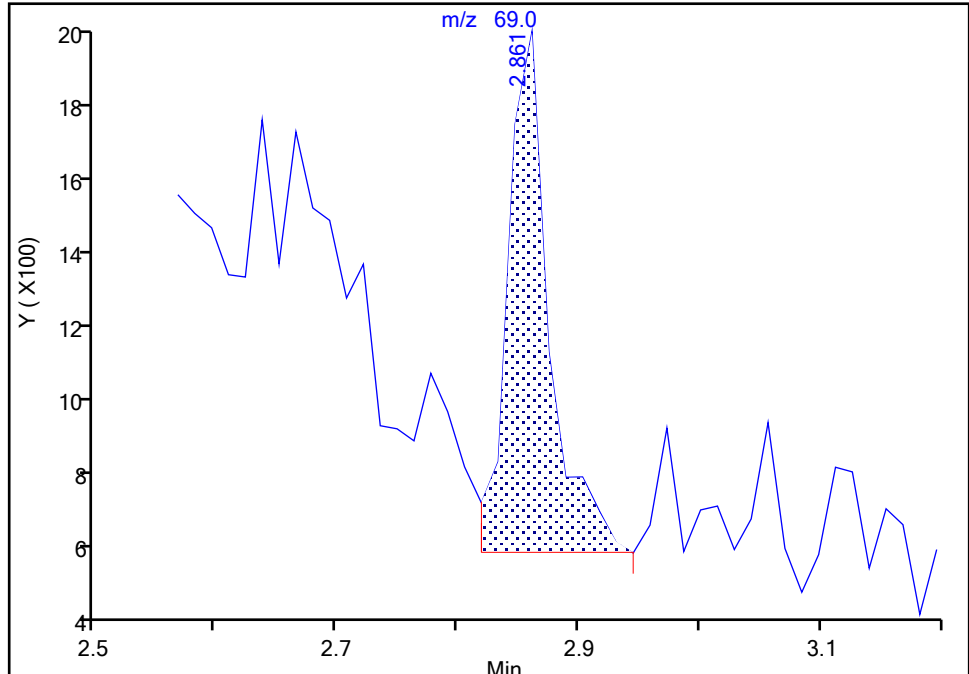
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.bVMS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

15 Dichlorofluoromethane, CAS: 75-43-4

Signal: 2

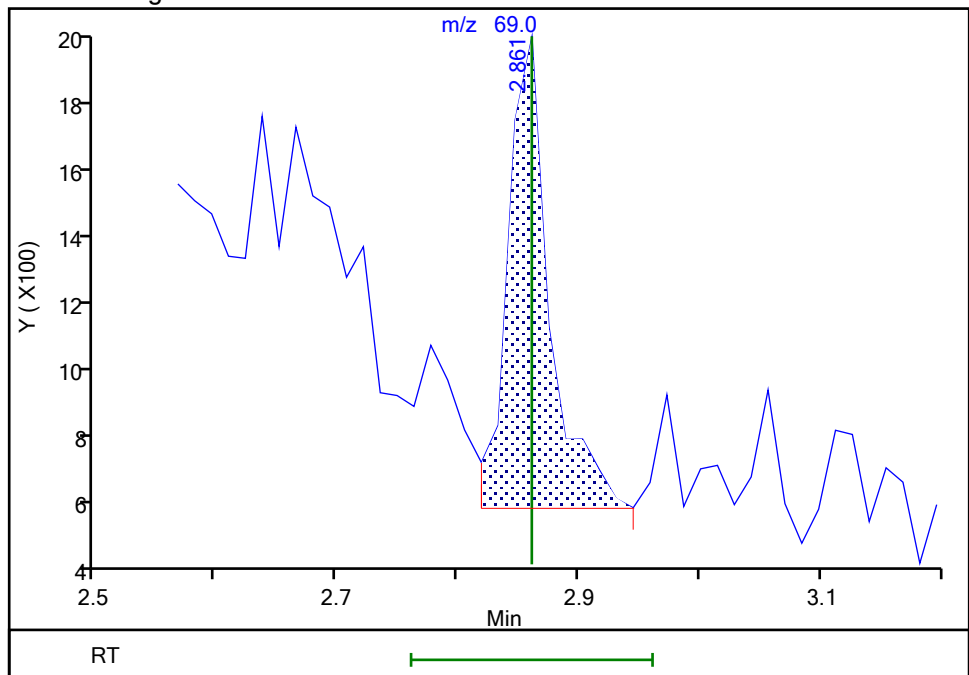
RT: 2.86
Area: 3232
Amount: 0.298734
Amount Units: ug/l

Processing Integration Results



RT: 2.86
Area: 3232
Amount: -0.013910
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:17:43 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

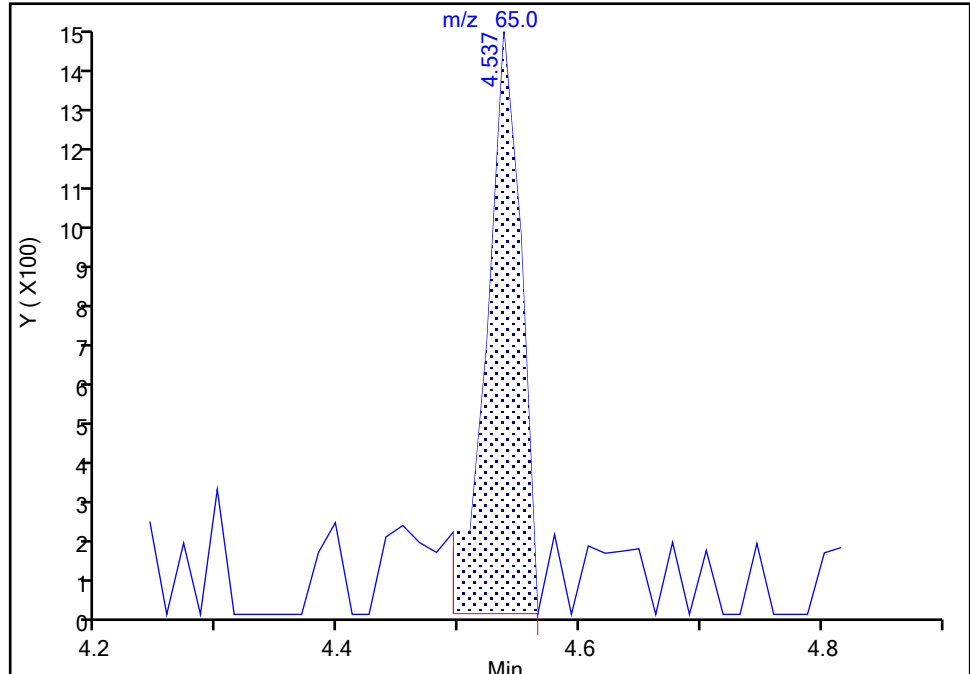
MS SCAN

39 1,1-Dichloroethane, CAS: 75-34-3

Signal: 2

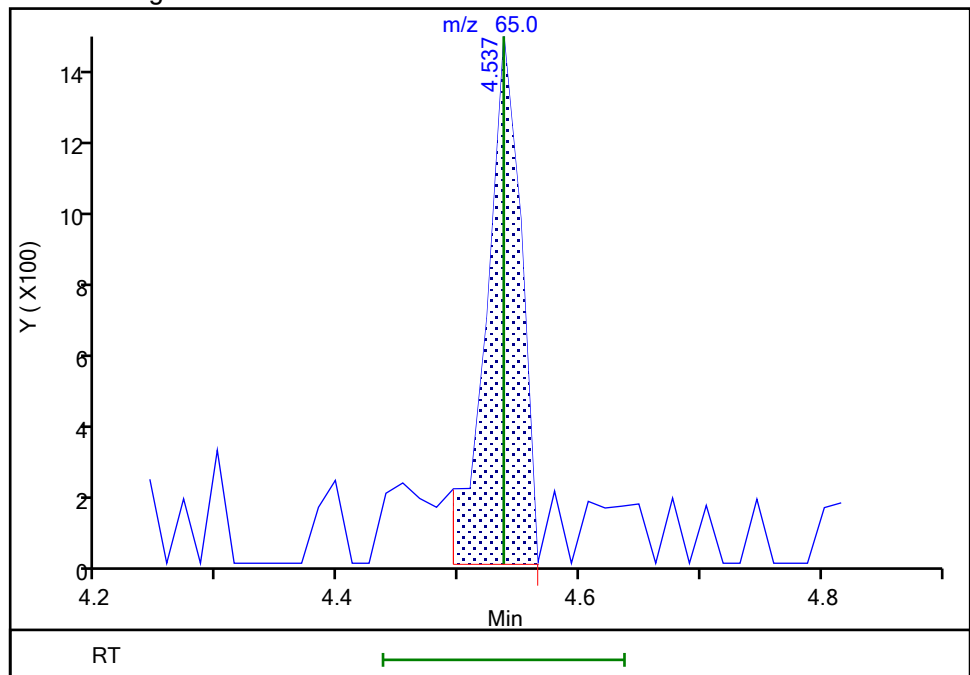
RT: 4.54
Area: 2883
Amount: 0.463016
Amount Units: ug/l

Processing Integration Results



RT: 4.54
Area: 2883
Amount: 0.463016
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:00:36 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

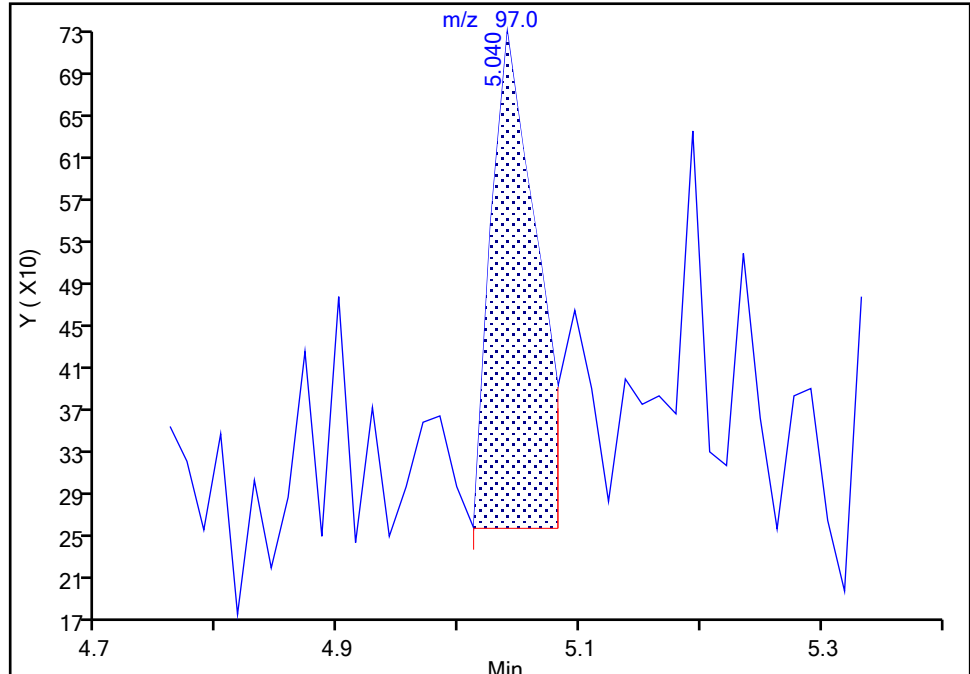
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

46 2,2-Dichloropropane, CAS: 594-20-7

Signal: 2

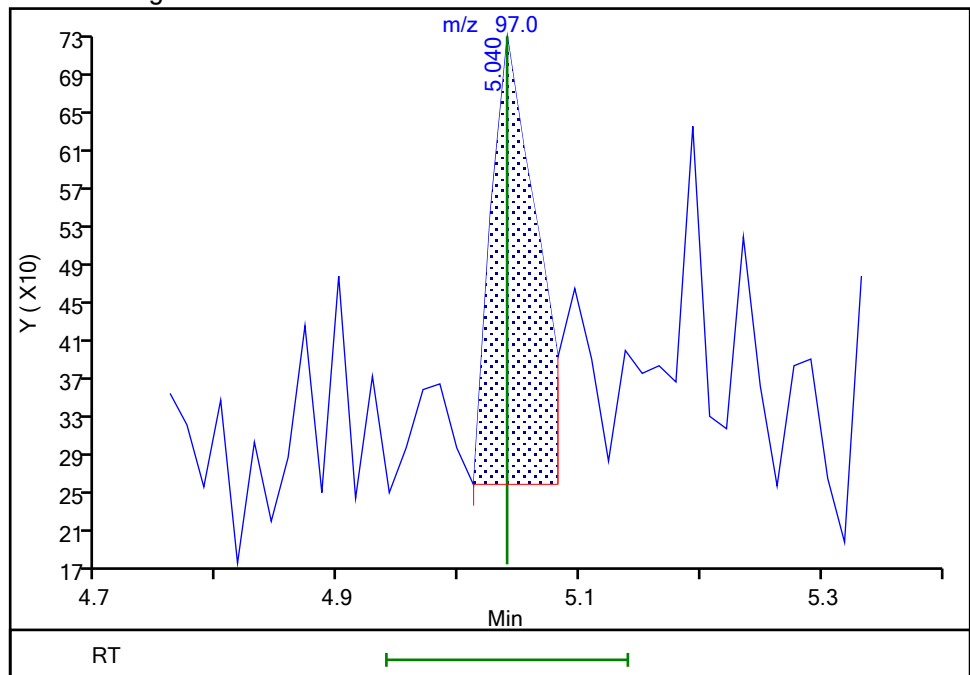
RT: 5.04
Area: 1252
Amount: 0.453351
Amount Units: ug/l

Processing Integration Results



RT: 5.04
Area: 1252
Amount: 0.453351
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:01:02 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

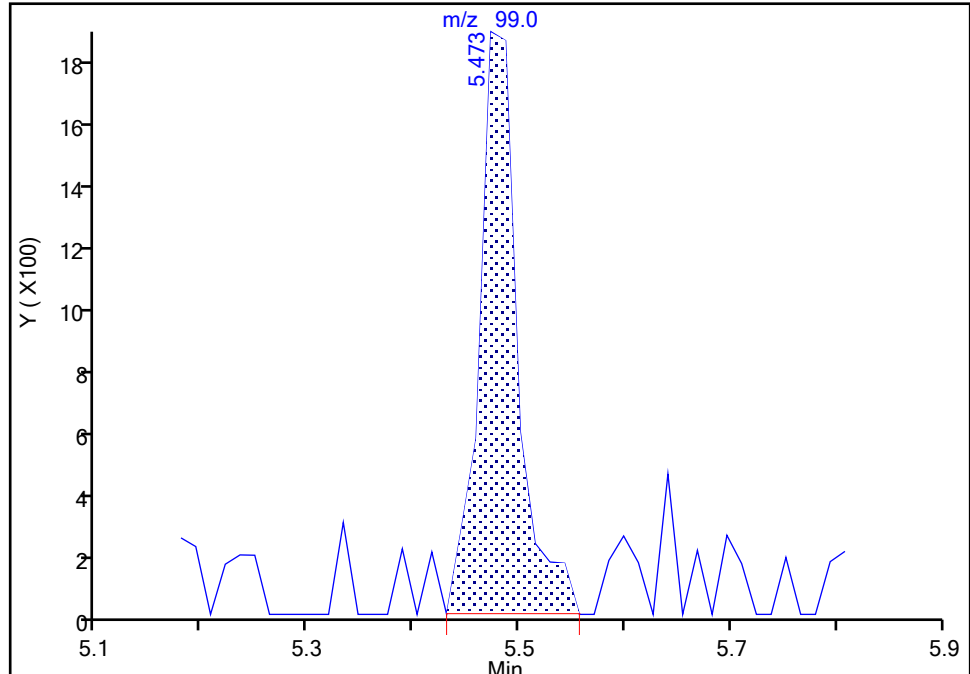
MS SCAN

54 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 2

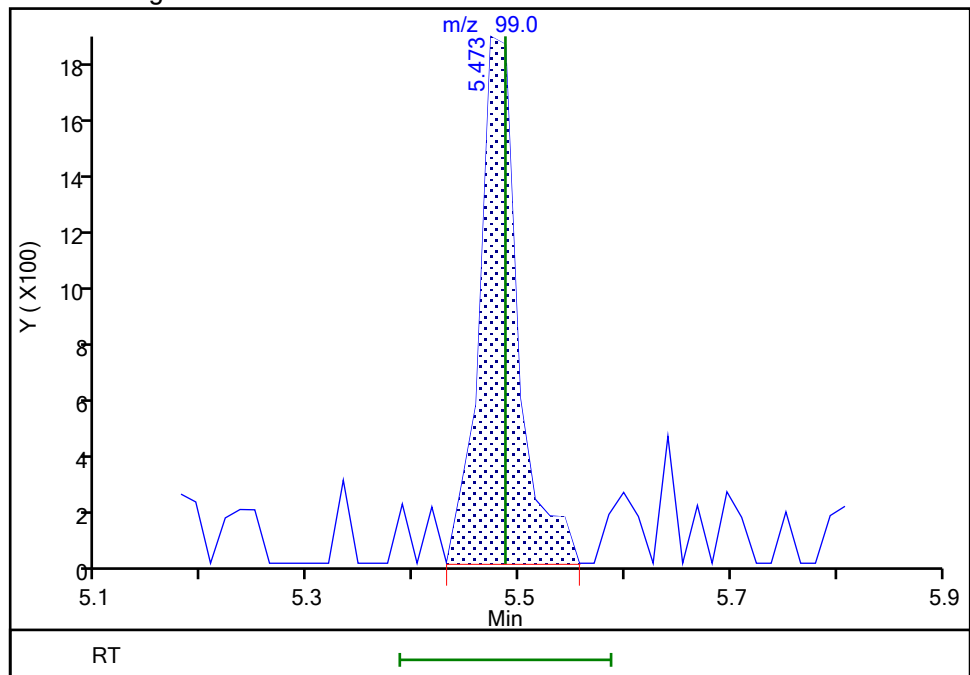
RT: 5.47
Area: 4626
Amount: 0.463603
Amount Units: ug/l

Processing Integration Results



RT: 5.47
Area: 4626
Amount: 0.463603
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:02:09 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

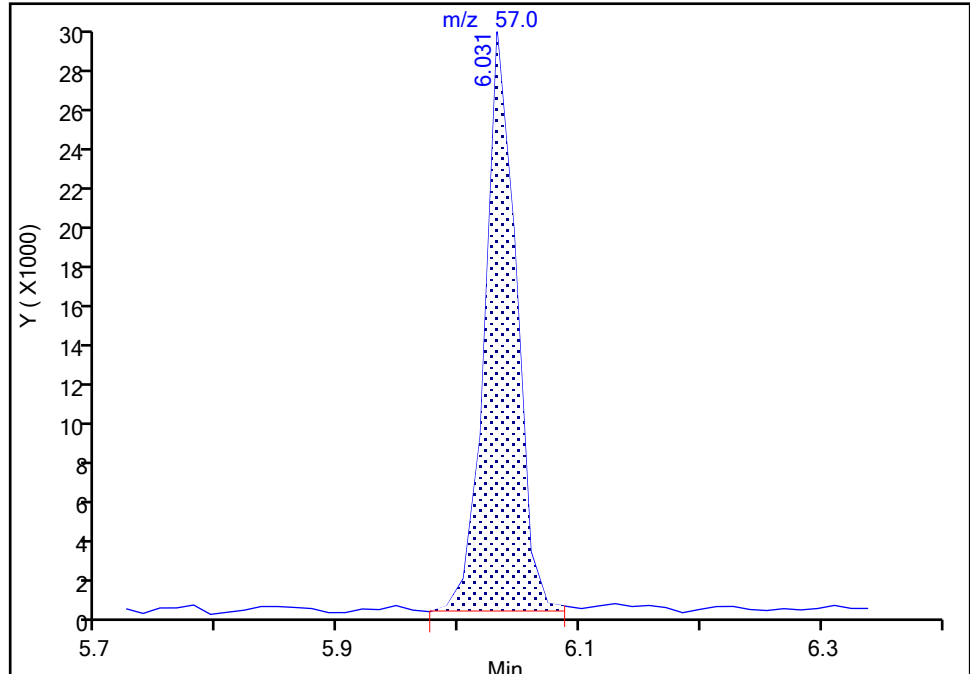
MS SCAN

64 n-Heptane, CAS: 142-82-5

Signal: 2

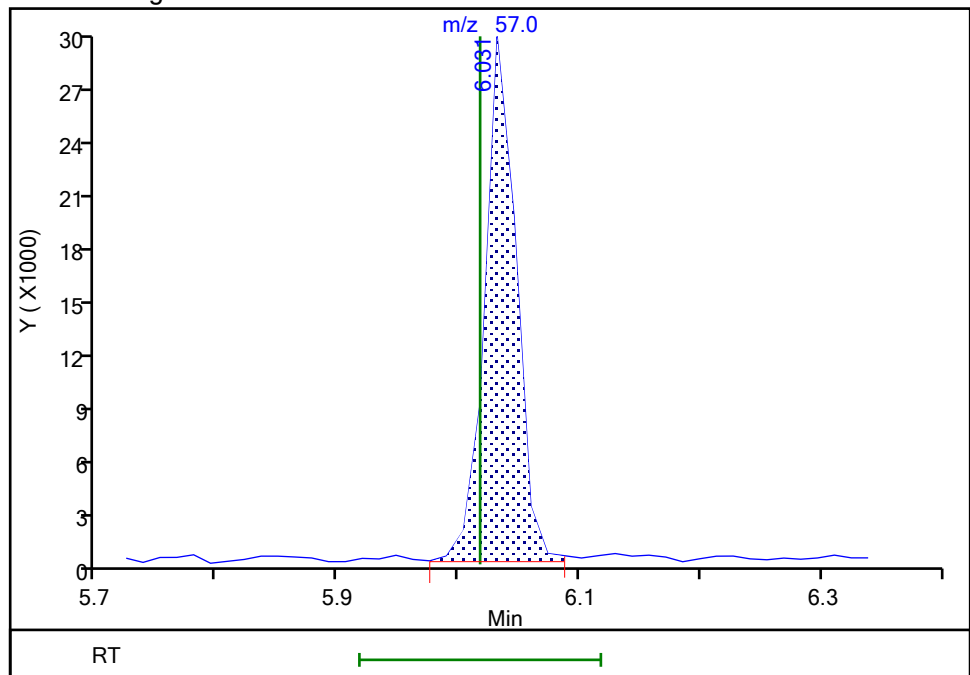
RT: 6.03
Area: 52269
Amount: 0.700177
Amount Units: ug/l

Processing Integration Results



RT: 6.03
Area: 52269
Amount: 0.700177
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:02:53 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

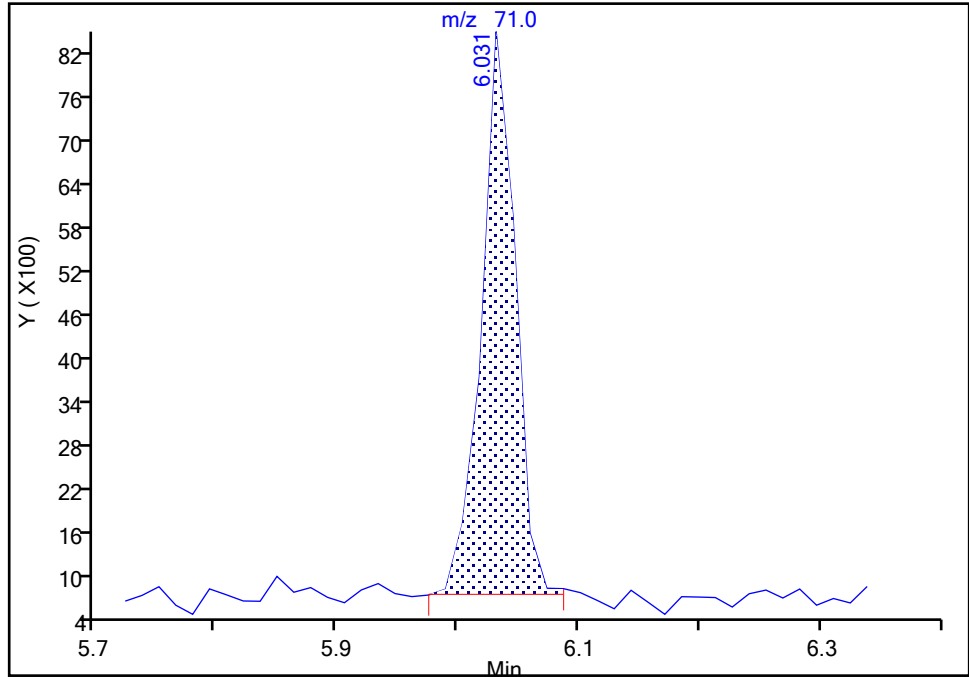
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

64 n-Heptane, CAS: 142-82-5

Signal: 3

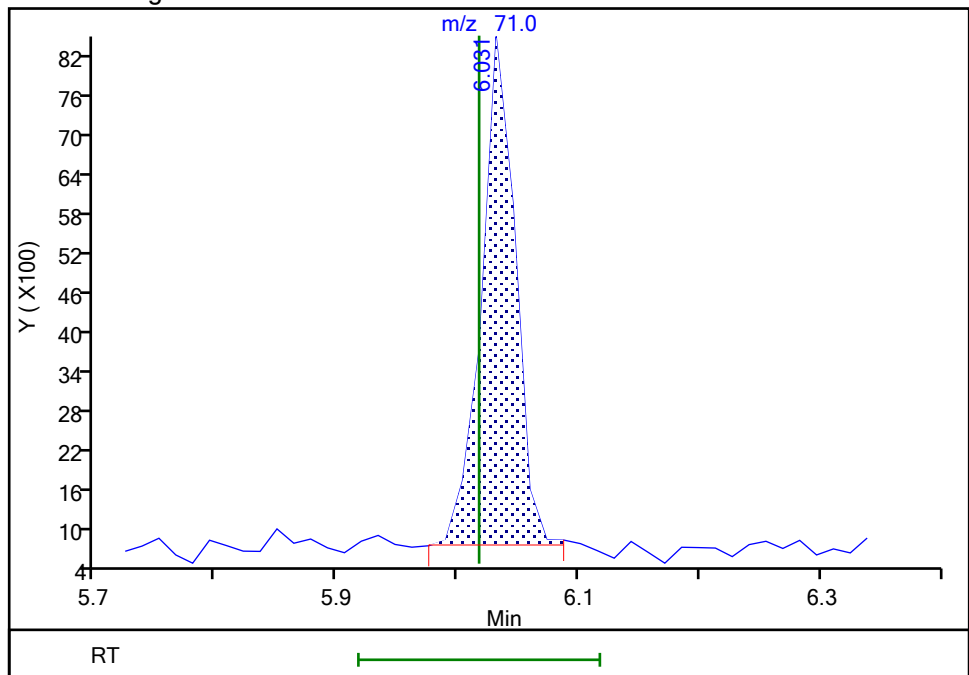
RT: 6.03
Area: 15109
Amount: 0.700177
Amount Units: ug/l

Processing Integration Results



RT: 6.03
Area: 15109
Amount: 0.700177
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:02:53 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

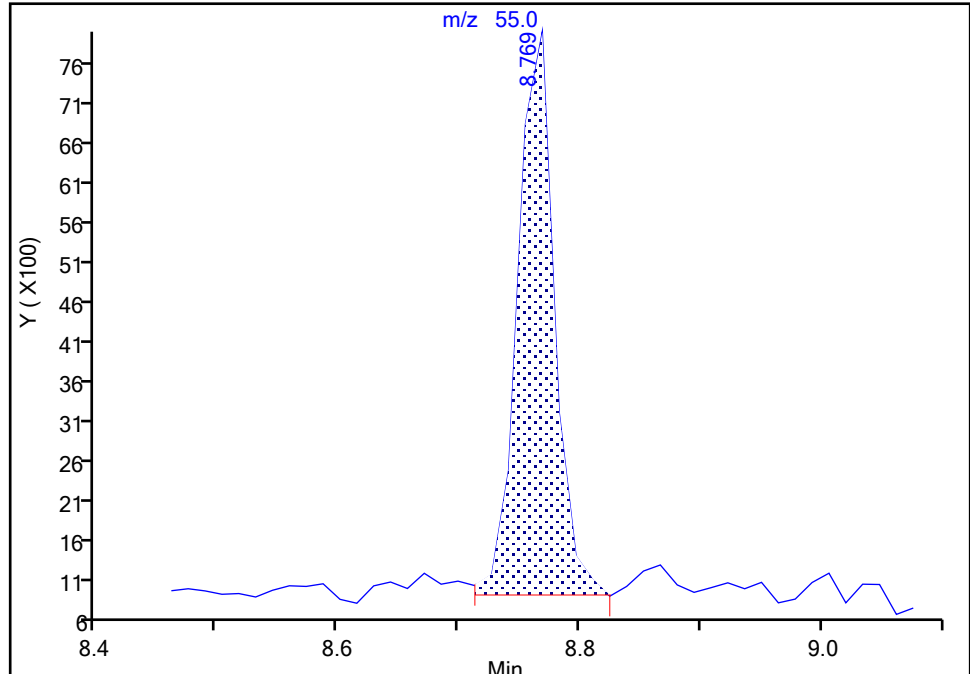
MS SCAN

96 1-Chlorohexane, CAS: 544-10-5

Signal: 2

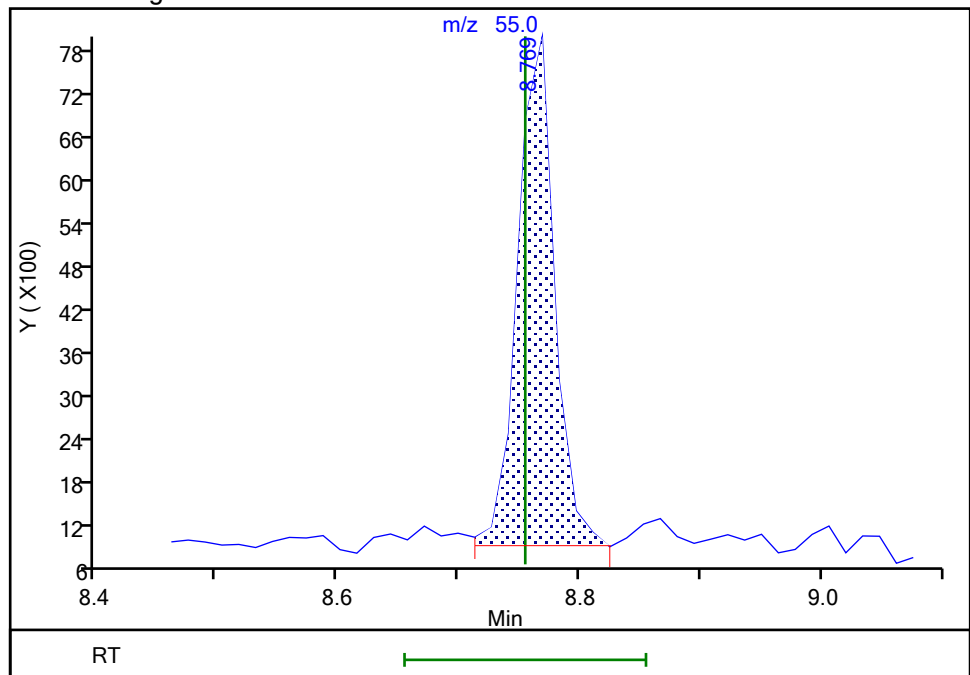
RT: 8.77
Area: 15017
Amount: 0.376848
Amount Units: ug/l

Processing Integration Results



RT: 8.77
Area: 15017
Amount: 0.376848
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:03:23 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

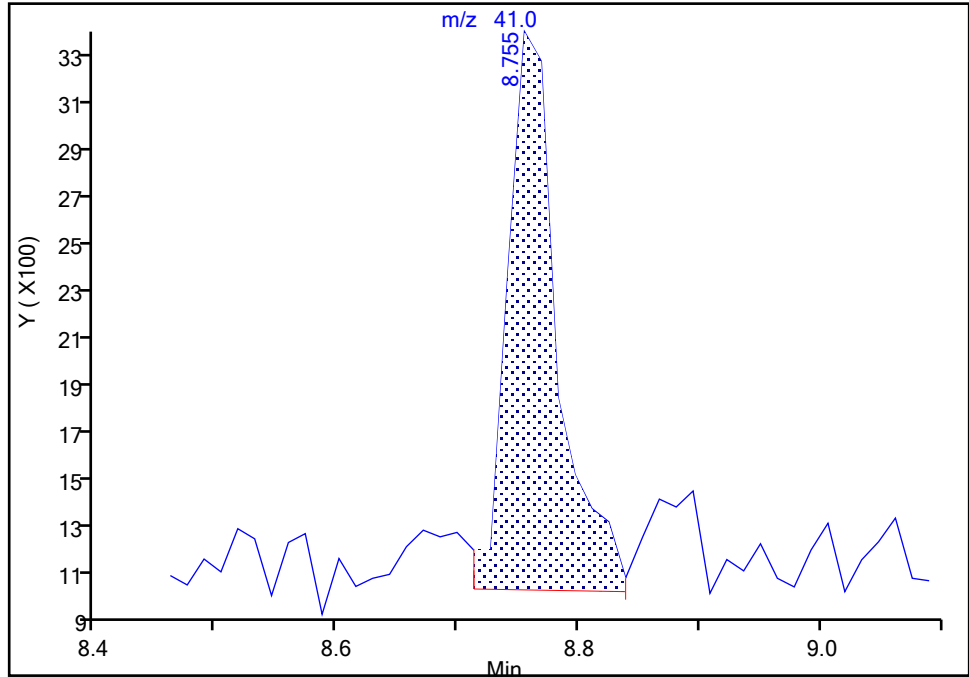
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

96 1-Chlorohexane, CAS: 544-10-5

Signal: 3

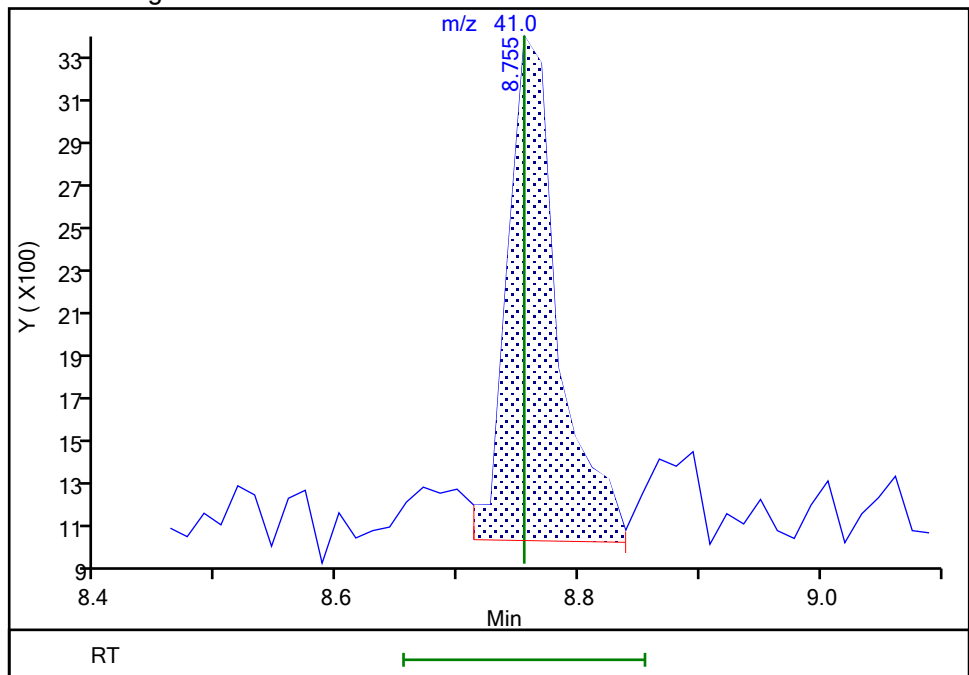
RT: 8.75
Area: 6636
Amount: 0.376848
Amount Units: ug/l

Processing Integration Results



RT: 8.75
Area: 6636
Amount: 0.376848
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:03:23 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

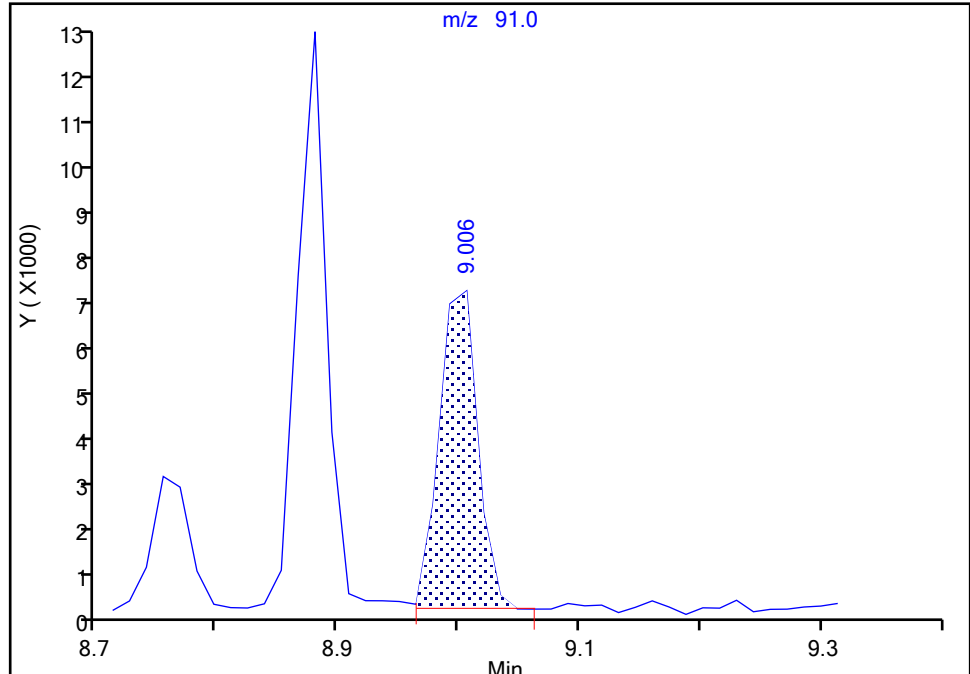
MS SCAN

100 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 2

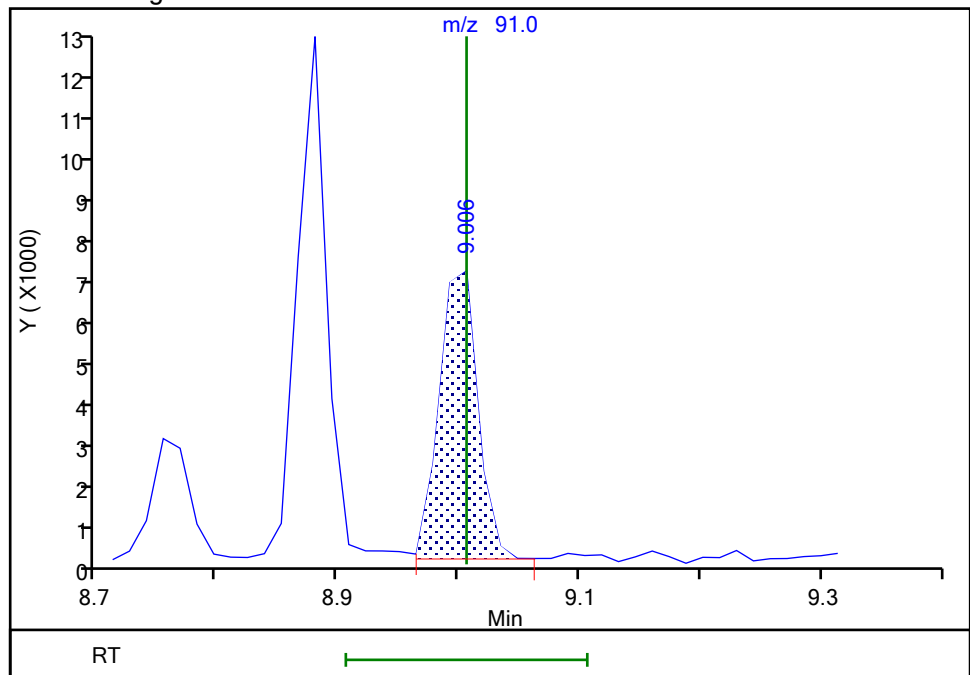
RT: 9.01
Area: 14902
Amount: 0.453319
Amount Units: ug/l

Processing Integration Results



RT: 9.01
Area: 14902
Amount: 0.453319
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:03:43 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

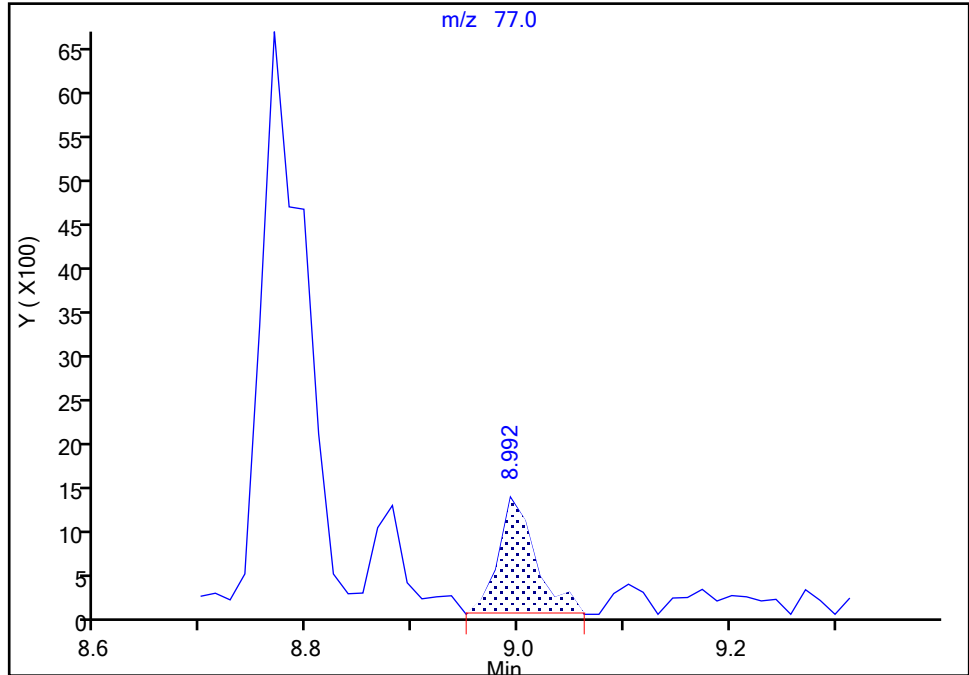
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

100 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 3

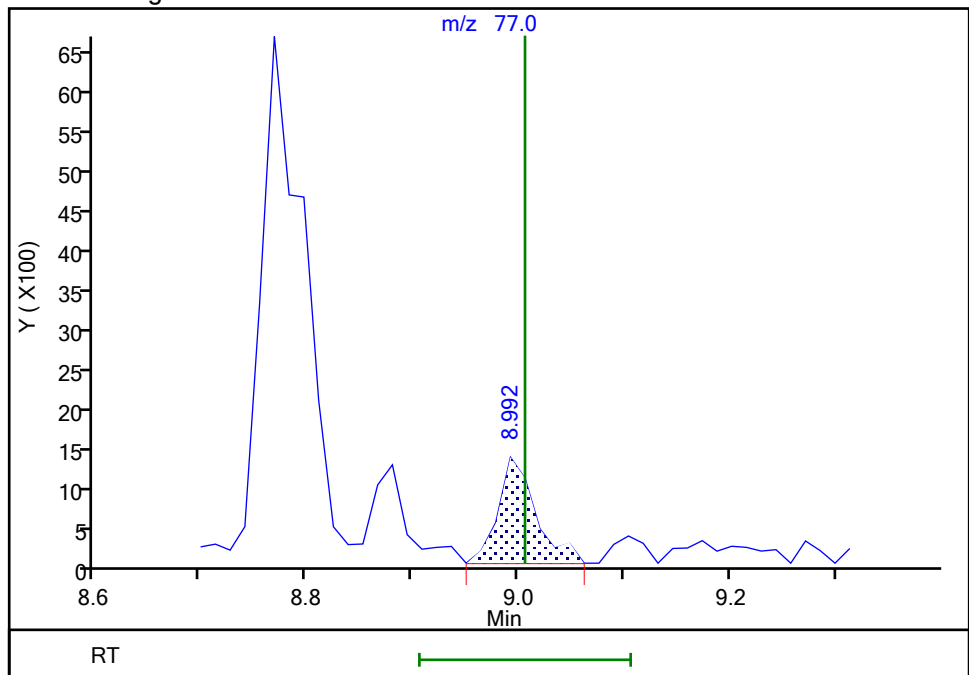
RT: 8.99
Area: 3313
Amount: 0.453319
Amount Units: ug/l

Processing Integration Results



RT: 8.99
Area: 3313
Amount: 0.453319
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:03:43 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

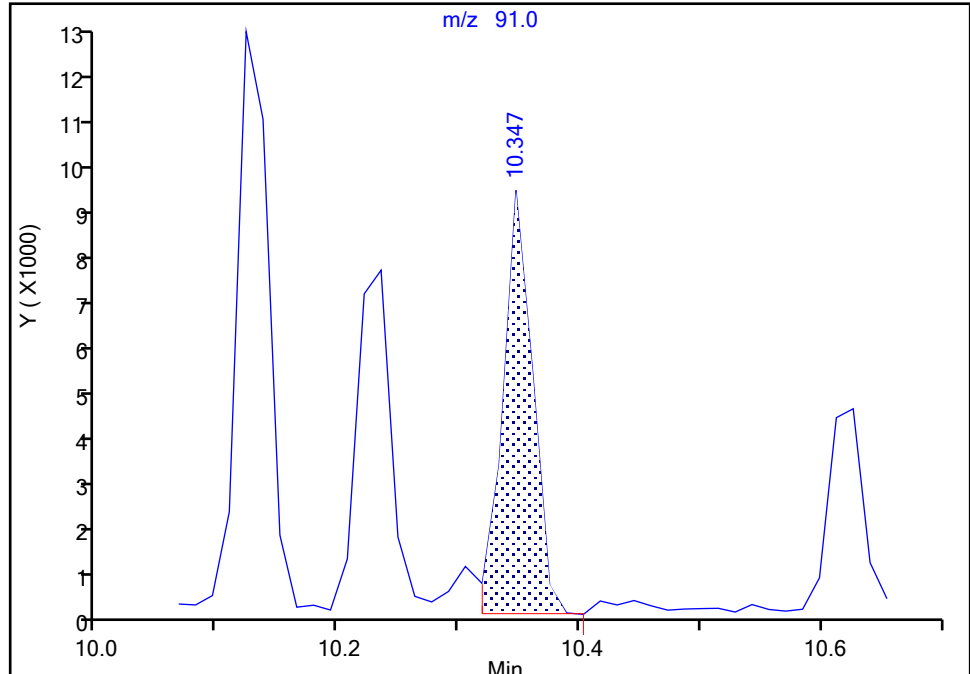
MS SCAN

115 4-Chlorotoluene, CAS: 106-43-4

Signal: 2

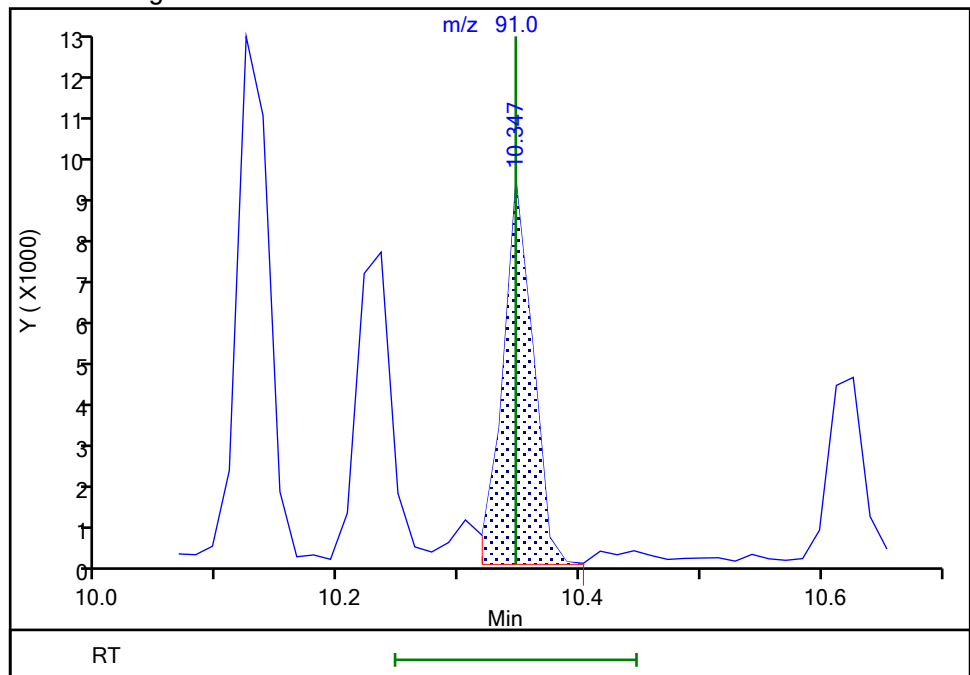
RT: 10.35
Area: 15095
Amount: 0.459669
Amount Units: ug/l

Processing Integration Results



RT: 10.35
Area: 15095
Amount: 0.459669
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:04:30 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

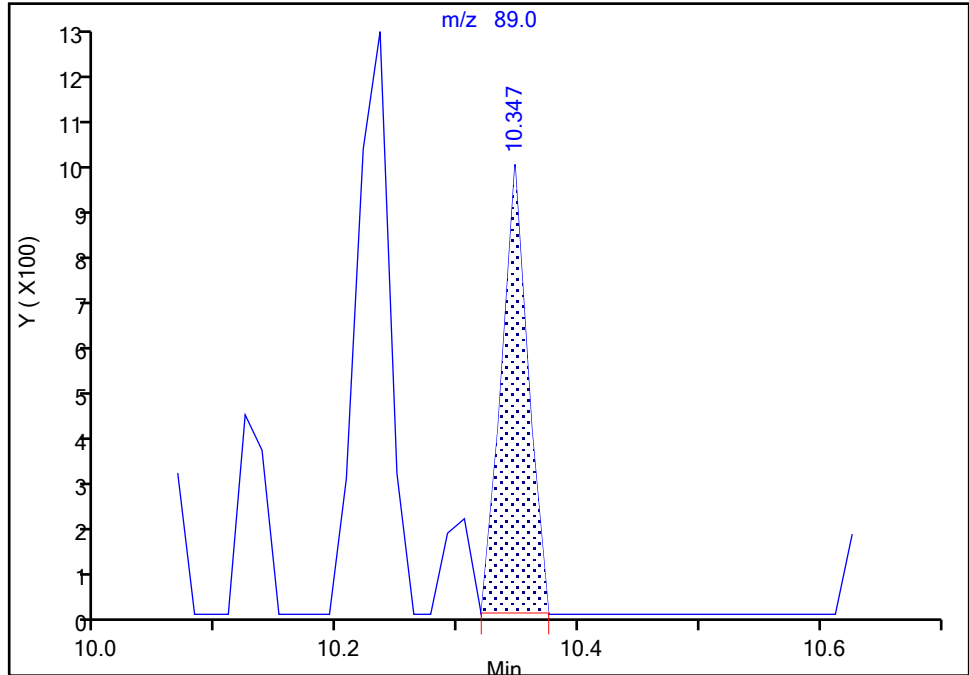
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

115 4-Chlorotoluene, CAS: 106-43-4

Signal: 3

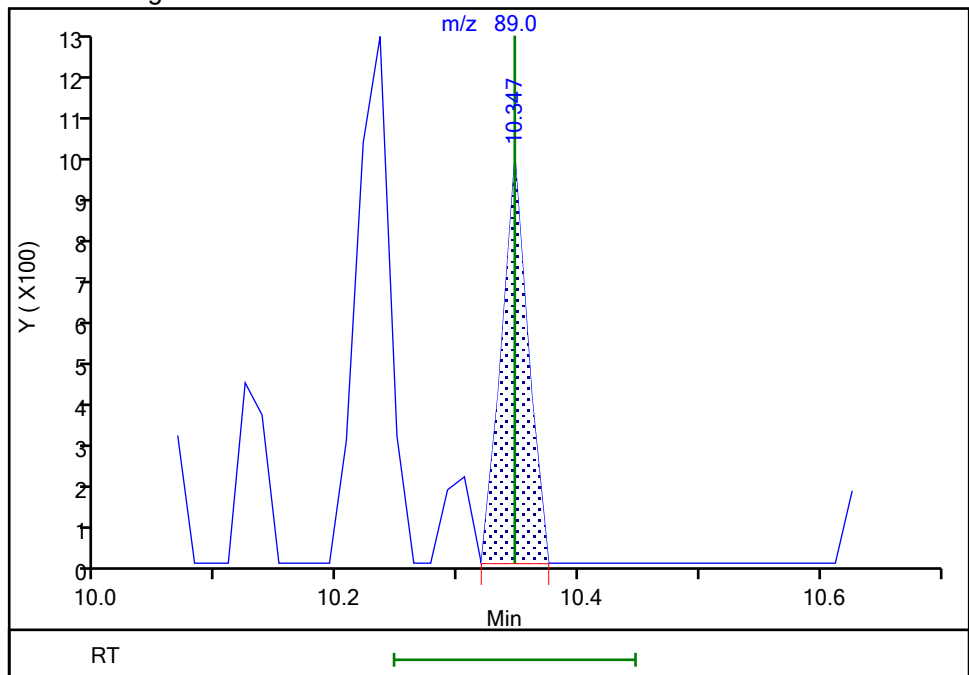
RT: 10.35
Area: 1477
Amount: 0.459669
Amount Units: ug/l

Processing Integration Results



RT: 10.35
Area: 1477
Amount: 0.459669
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:04:30 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

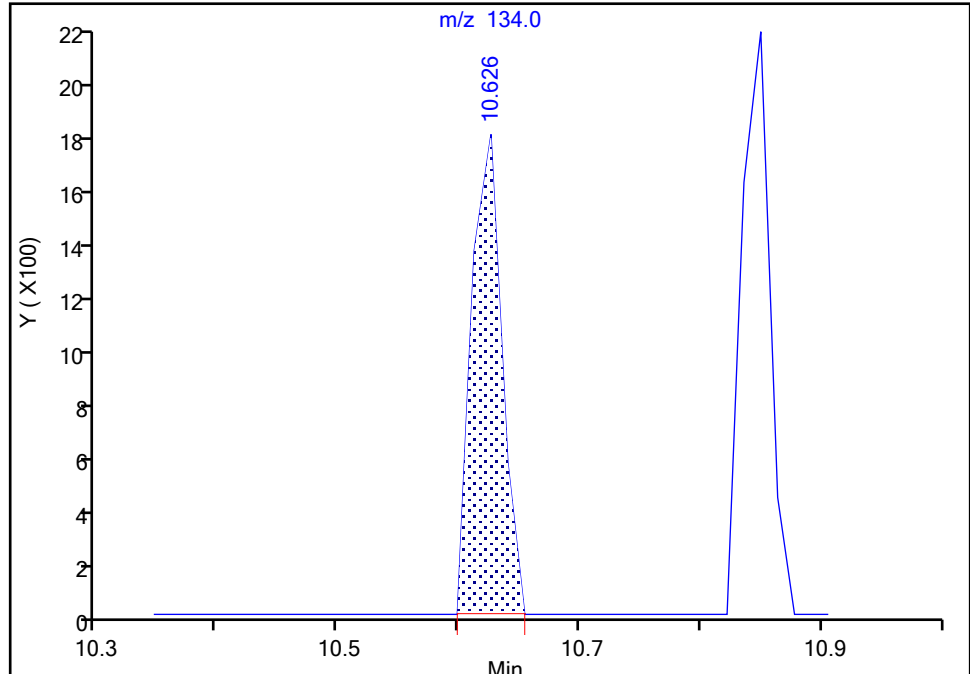
MS SCAN

116 tert-Butylbenzene, CAS: 98-06-6

Signal: 2

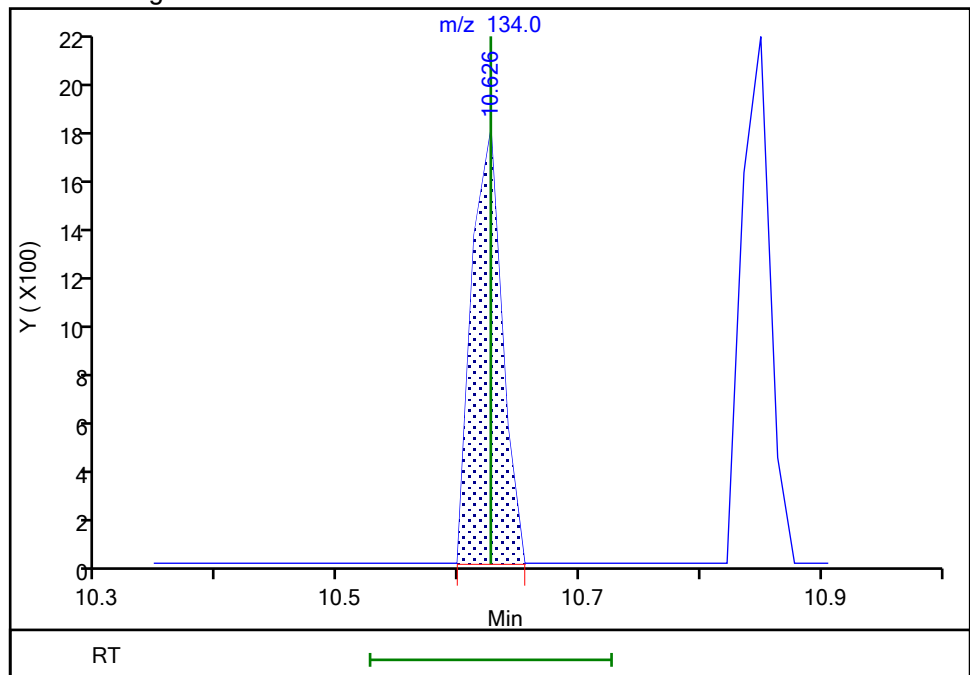
RT: 10.63
Area: 3039
Amount: 0.462030
Amount Units: ug/l

Processing Integration Results



RT: 10.63
Area: 3039
Amount: 0.462030
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:04:35 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

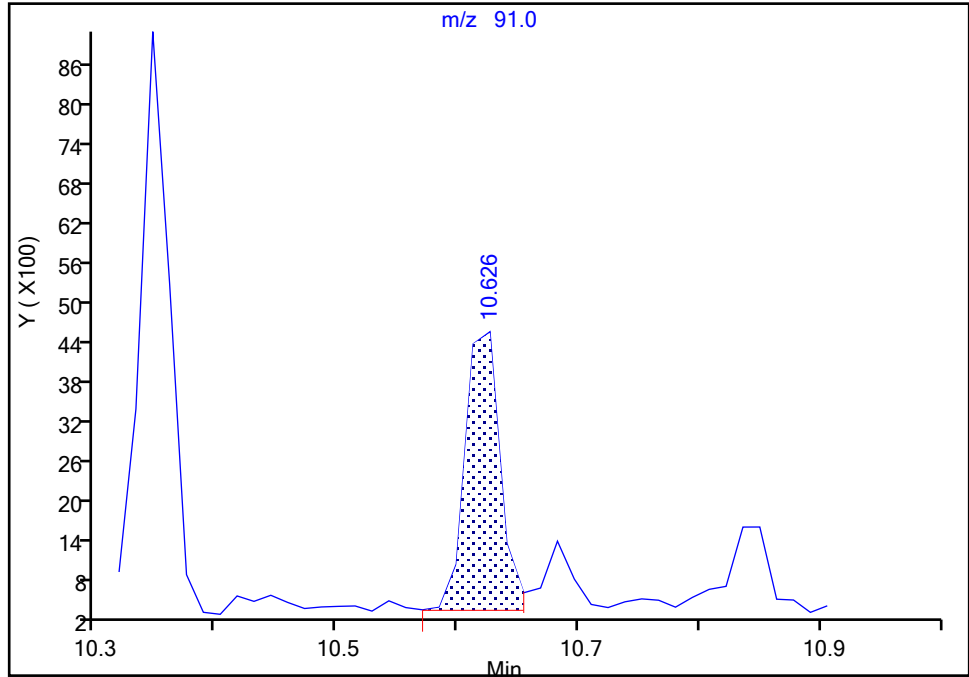
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

116 tert-Butylbenzene, CAS: 98-06-6

Signal: 3

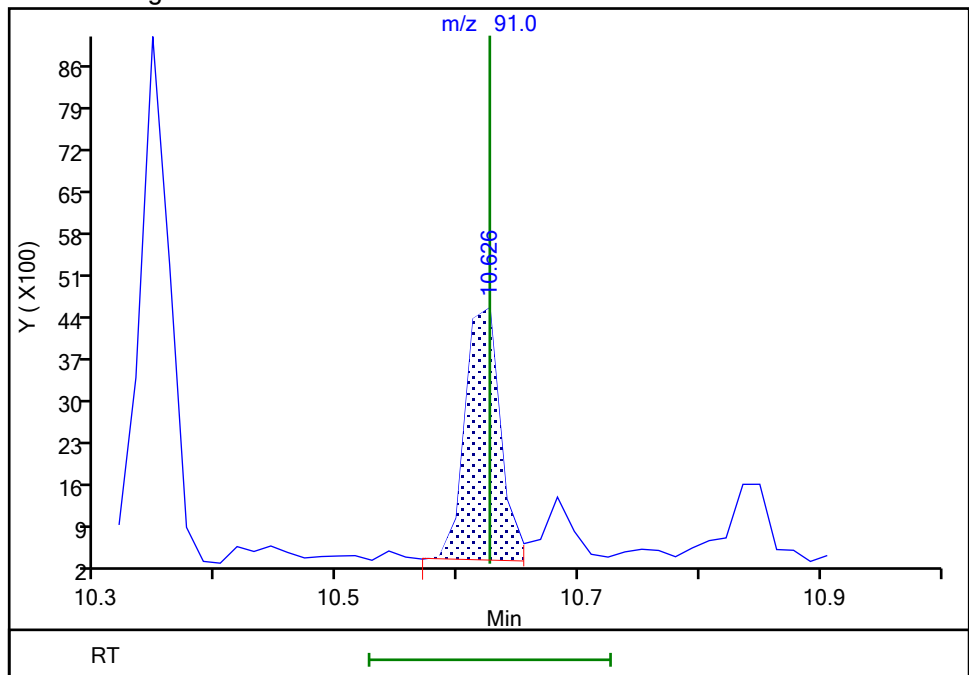
RT: 10.63
Area: 8518
Amount: 0.462030
Amount Units: ug/l

Processing Integration Results



RT: 10.63
Area: 8518
Amount: 0.462030
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:04:35 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

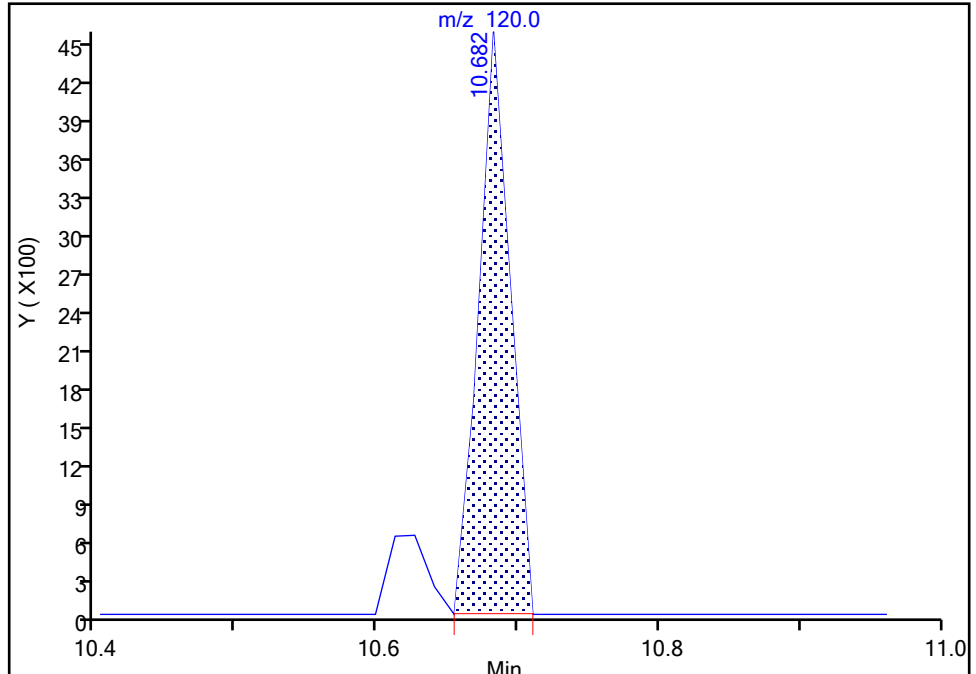
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

117 1,2,4-Trimethylbenzene, CAS: 95-63-6
Signal: 2

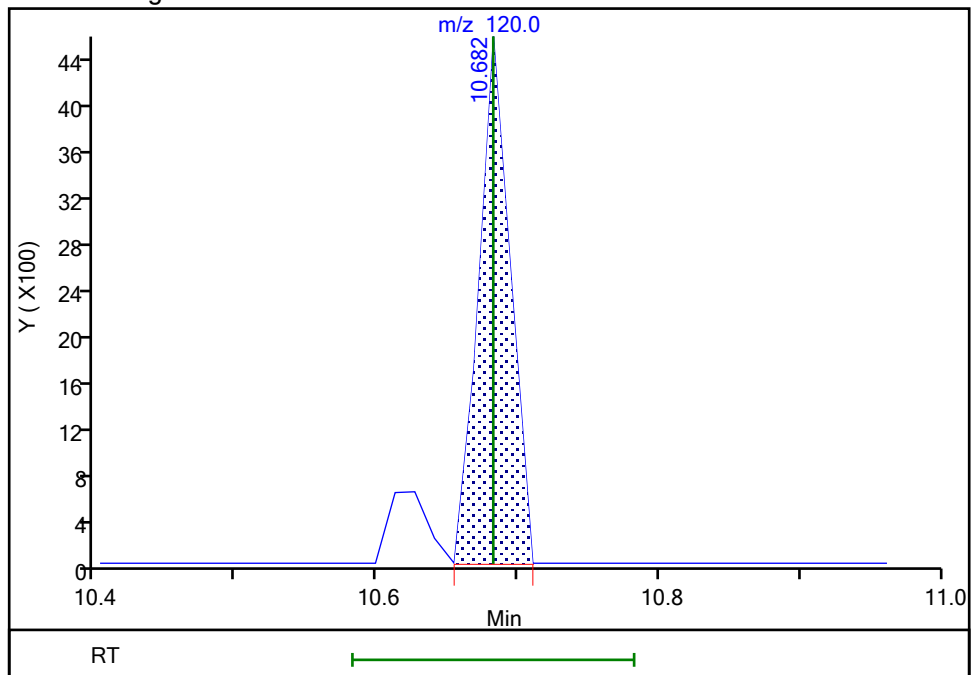
RT: 10.68
Area: 7027
Amount: 0.461006
Amount Units: ug/l

Processing Integration Results



RT: 10.68
Area: 7027
Amount: 0.461006
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:04:45 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

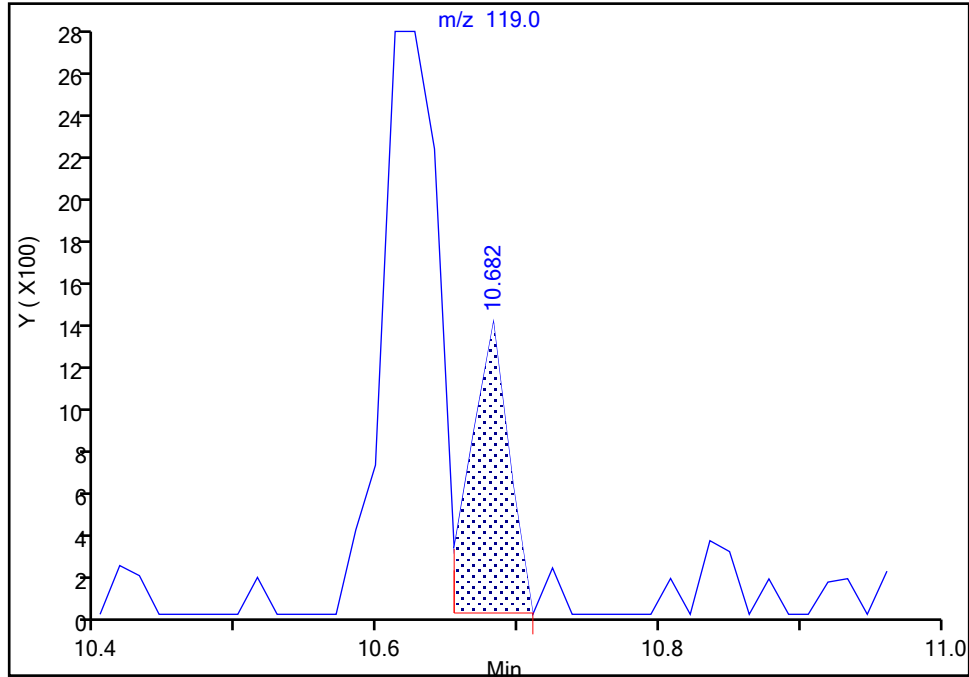
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

117 1,2,4-Trimethylbenzene, CAS: 95-63-6
Signal: 3

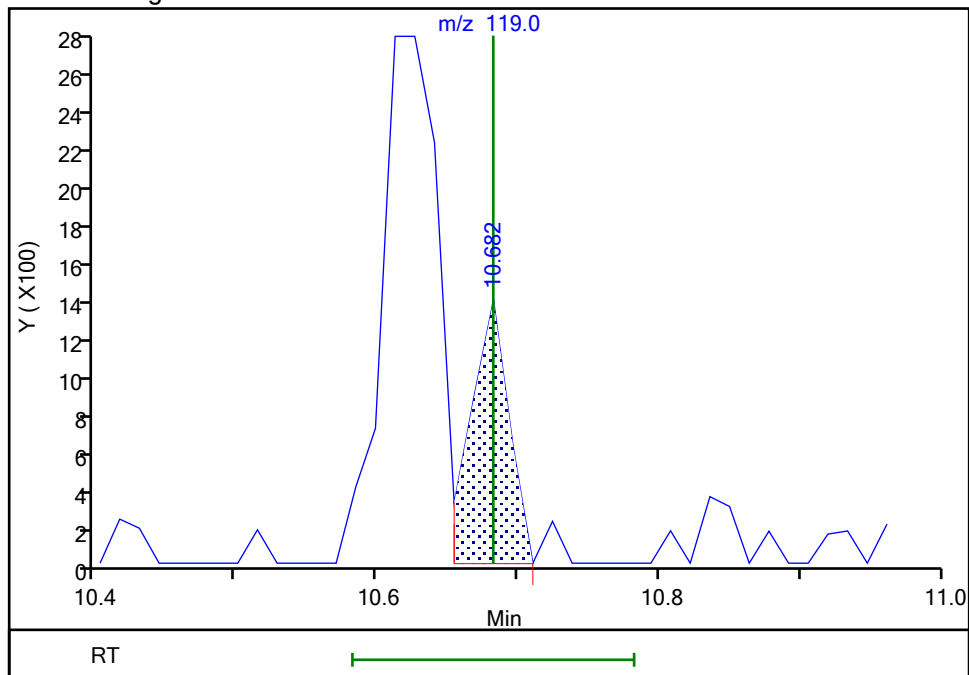
RT: 10.68
Area: 2611
Amount: 0.461006
Amount Units: ug/l

Processing Integration Results



RT: 10.68
Area: 2611
Amount: 0.461006
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:04:45 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

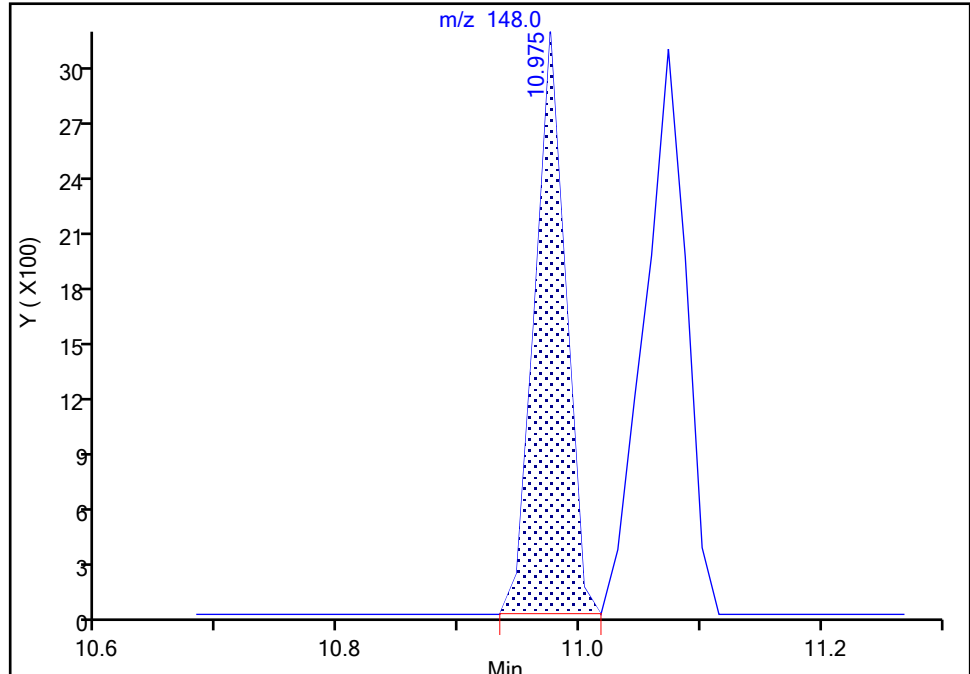
MS SCAN

119 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 2

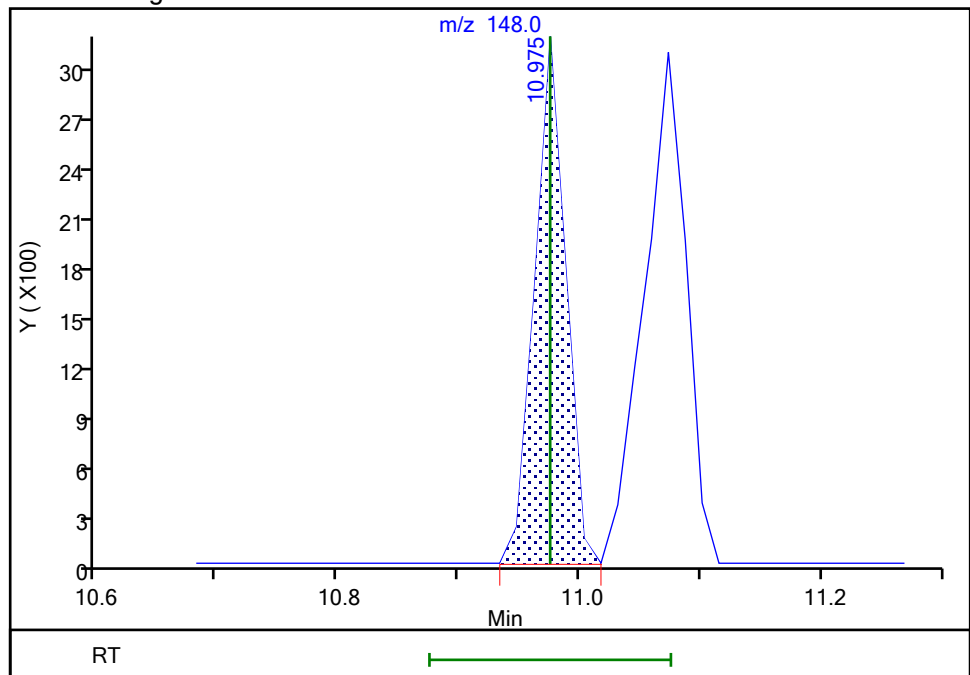
RT: 10.98
Area: 5694
Amount: 0.459938
Amount Units: ug/l

Processing Integration Results



RT: 10.98
Area: 5694
Amount: 0.459938
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:04:56 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

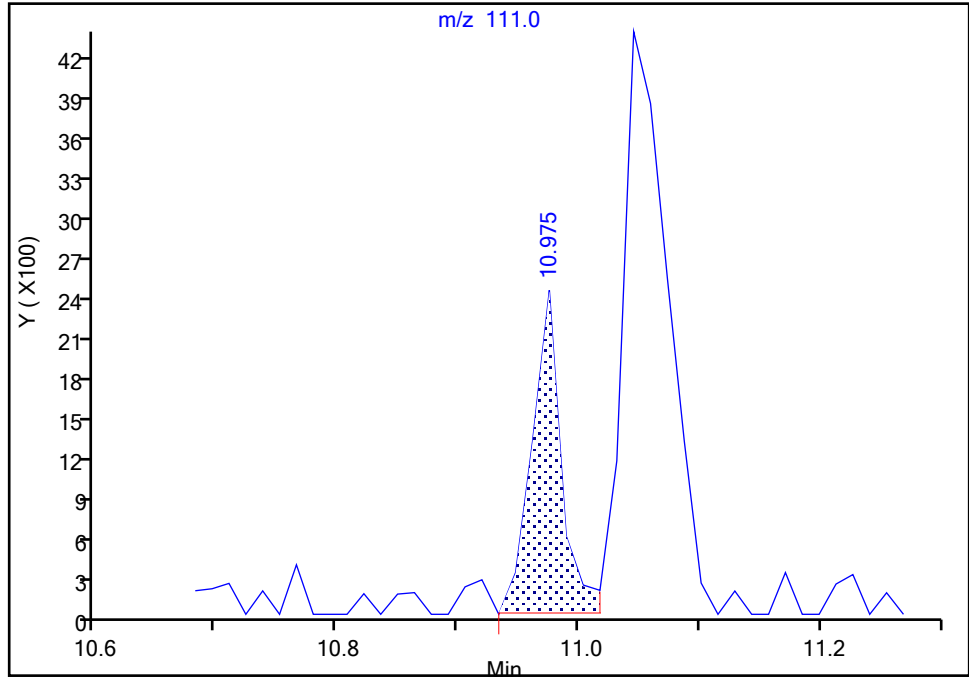
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

119 1,3-Dichlorobenzene, CAS: 541-73-1

Signal: 3

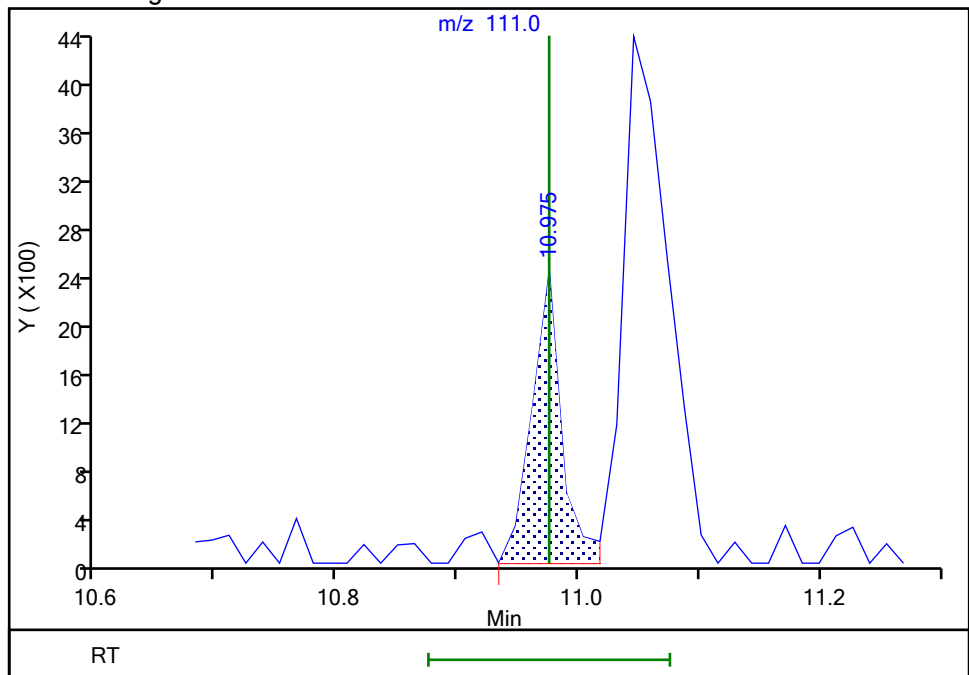
RT: 10.98
Area: 4196
Amount: 0.459938
Amount Units: ug/l

Processing Integration Results



RT: 10.98
Area: 4196
Amount: 0.459938
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:04:56 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

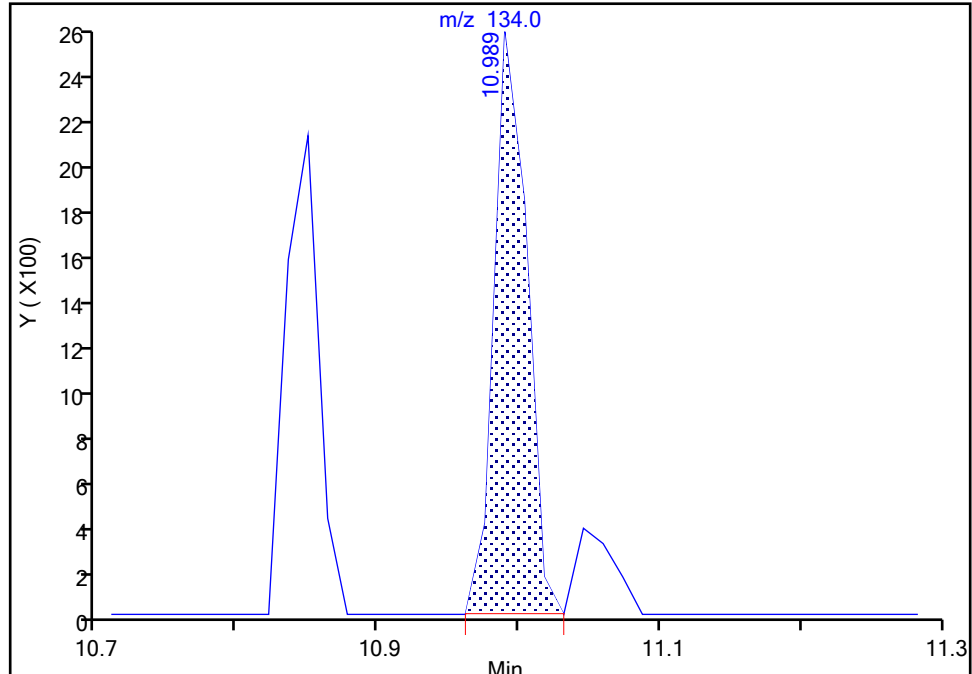
MS SCAN

120 4-Isopropyltoluene, CAS: 99-87-6

Signal: 2

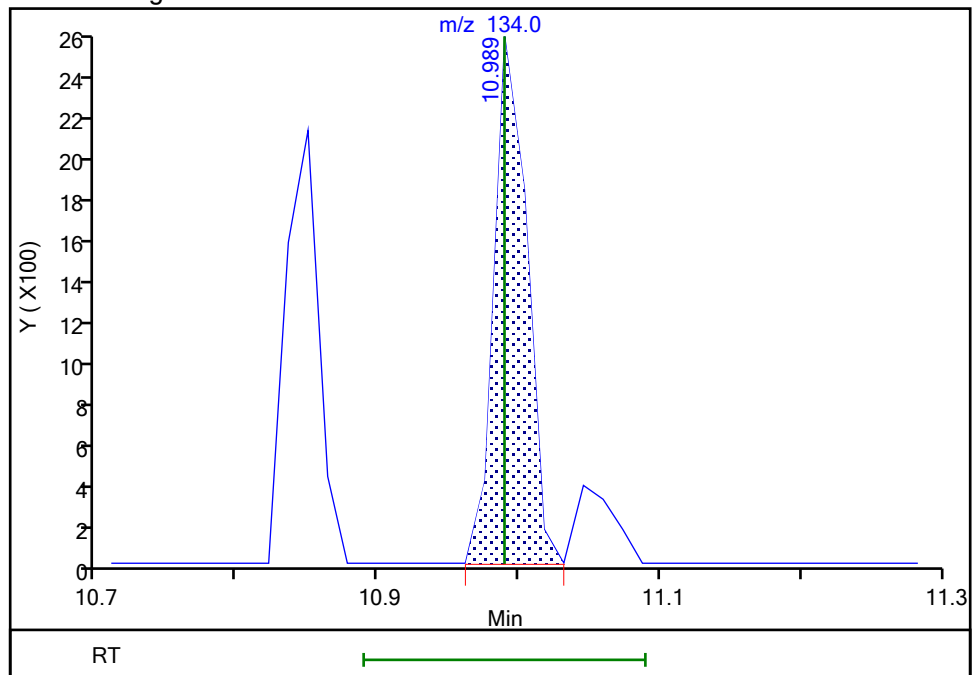
RT: 10.99
Area: 4186
Amount: 0.451626
Amount Units: ug/l

Processing Integration Results



RT: 10.99
Area: 4186
Amount: 0.451626
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:05:01 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

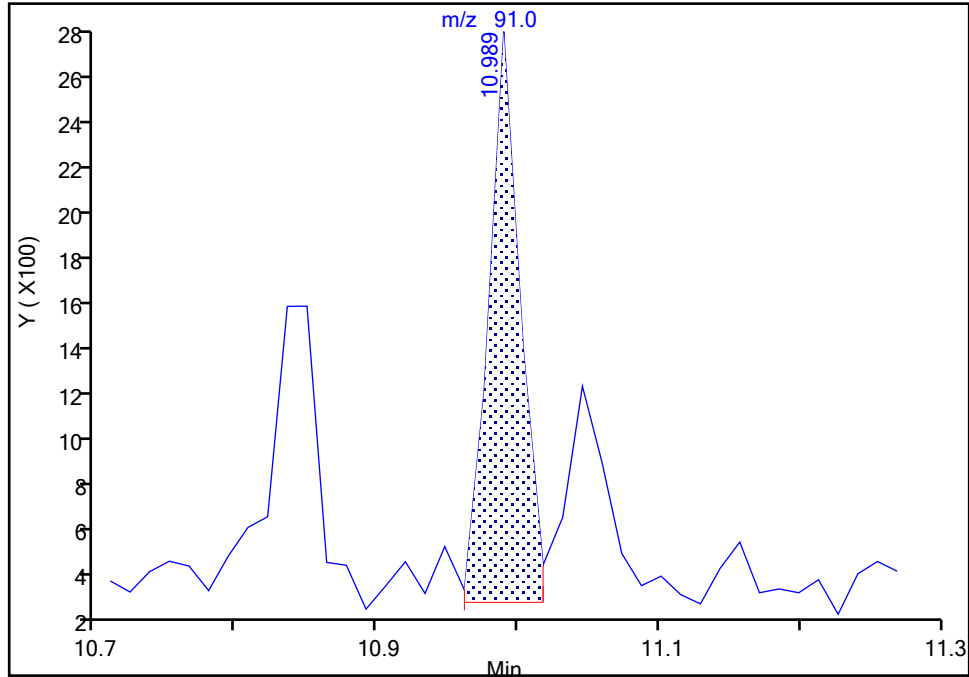
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

120 4-Isopropyltoluene, CAS: 99-87-6

Signal: 3

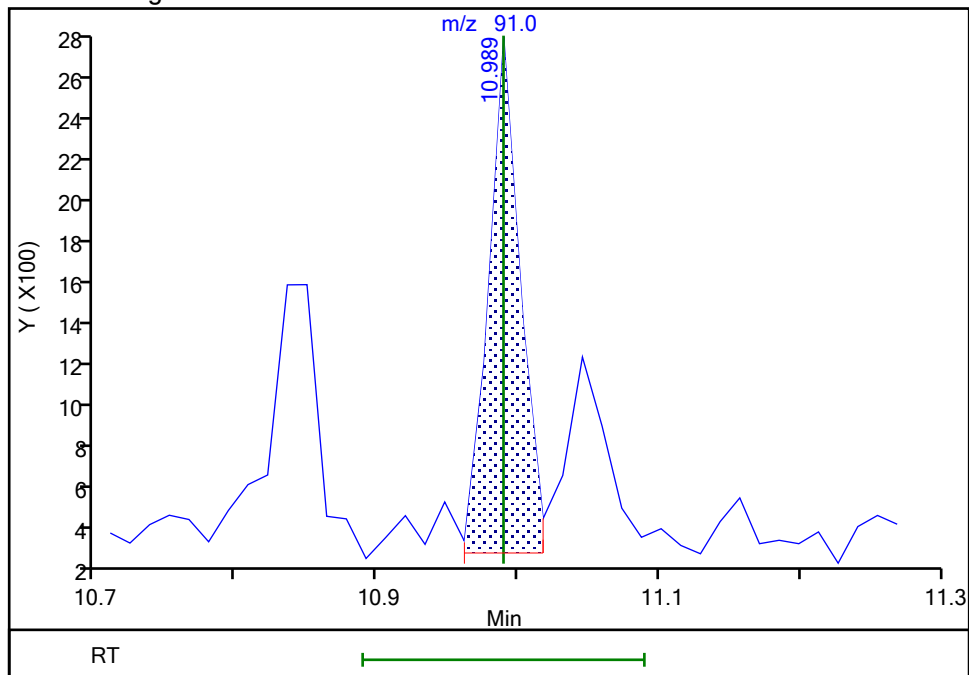
RT: 10.99
Area: 3843
Amount: 0.451626
Amount Units: ug/l

Processing Integration Results



RT: 10.99
Area: 3843
Amount: 0.451626
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:05:01 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

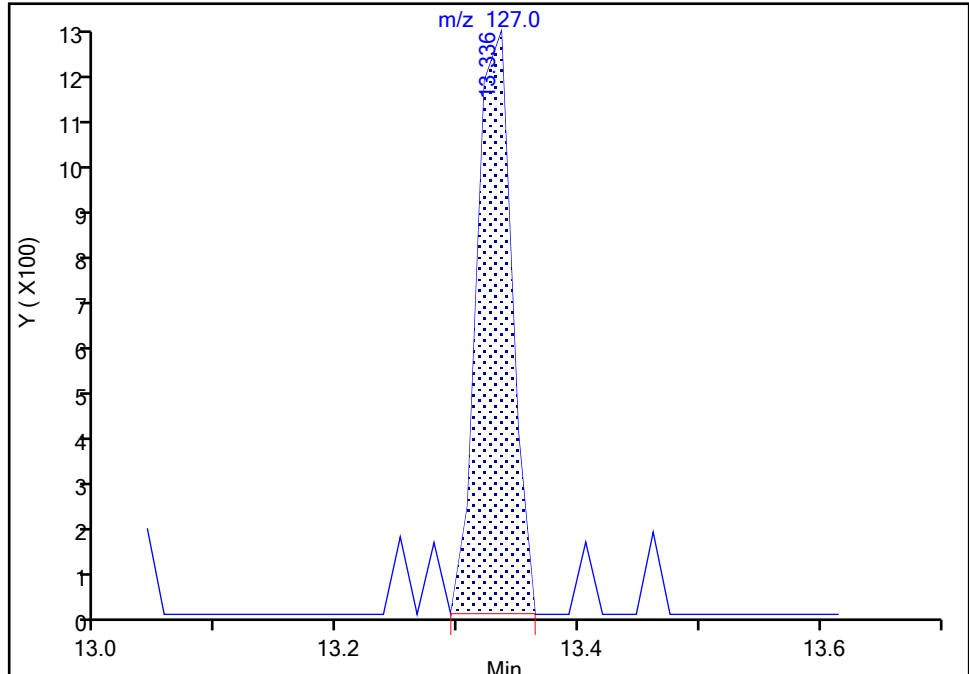
MS SCAN

130 Naphthalene, CAS: 91-20-3

Signal: 2

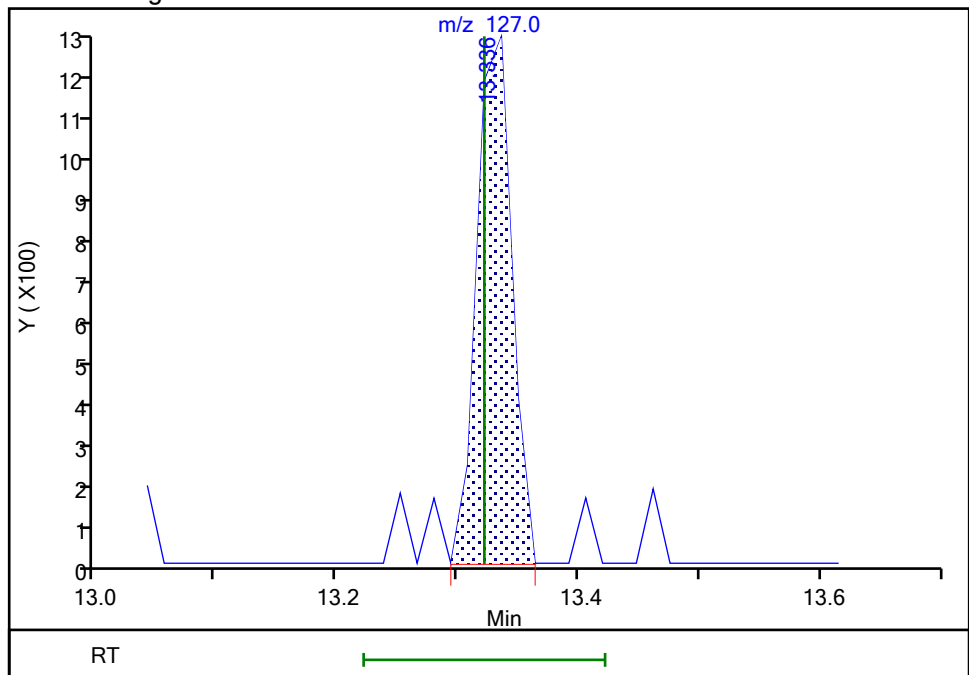
RT: 13.34
Area: 2483
Amount: 0.291230
Amount Units: ug/l

Processing Integration Results



RT: 13.34
Area: 2483
Amount: 0.291230
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:05:30 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

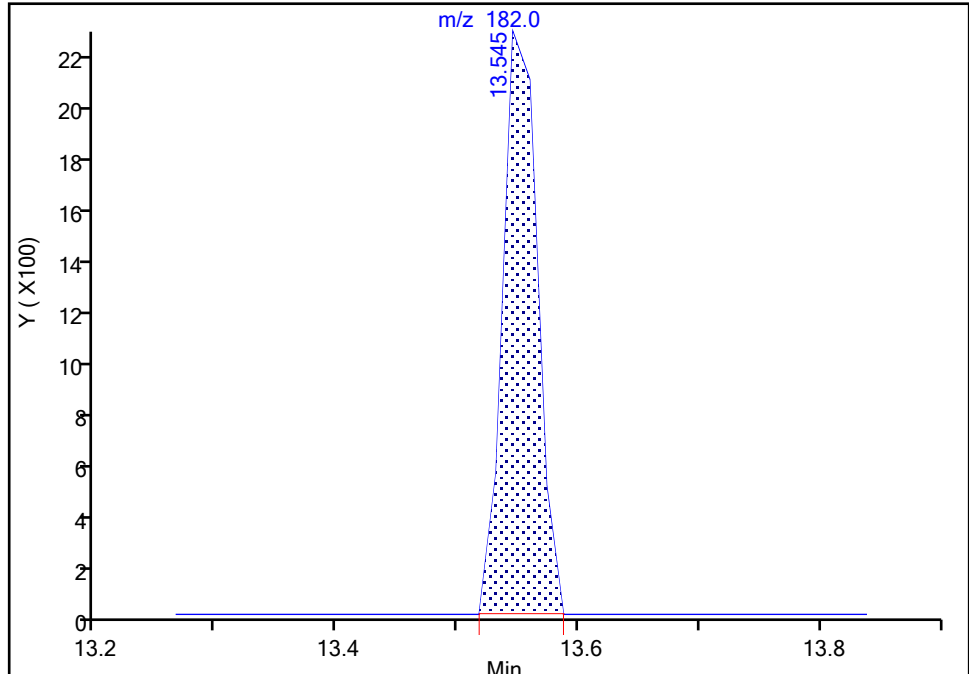
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

132 1,2,3-Trichlorobenzene, CAS: 87-61-6
Signal: 2

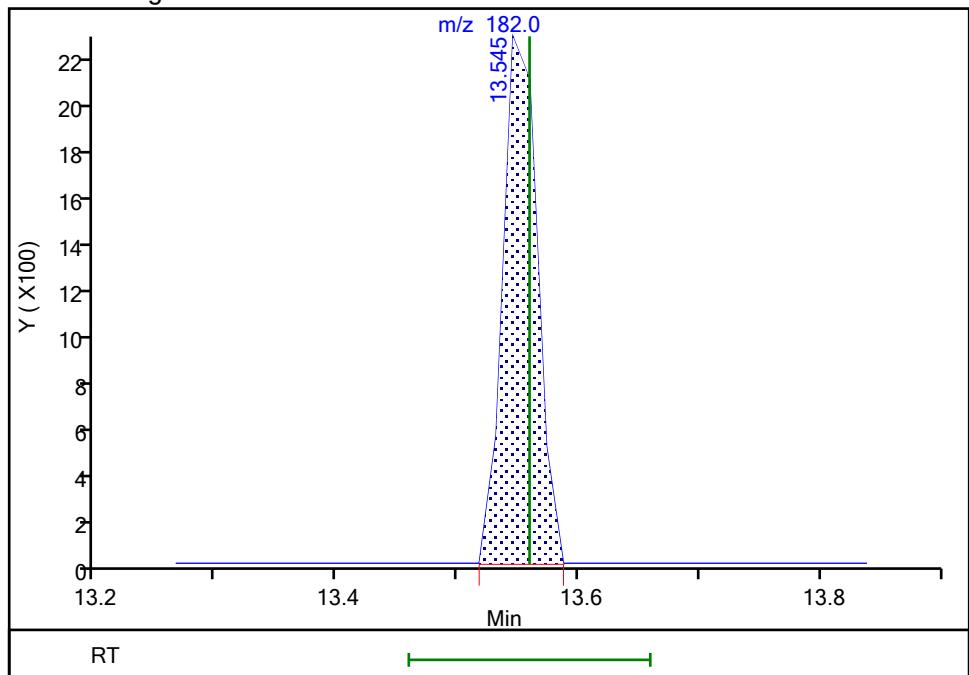
RT: 13.55
Area: 4447
Amount: 0.496650
Amount Units: ug/l

Processing Integration Results



RT: 13.55
Area: 4447
Amount: 0.496650
Amount Units: ug/l

Manual Integration Results



Reviewer: Q2ZS, 01-Aug-2023 14:05:39 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

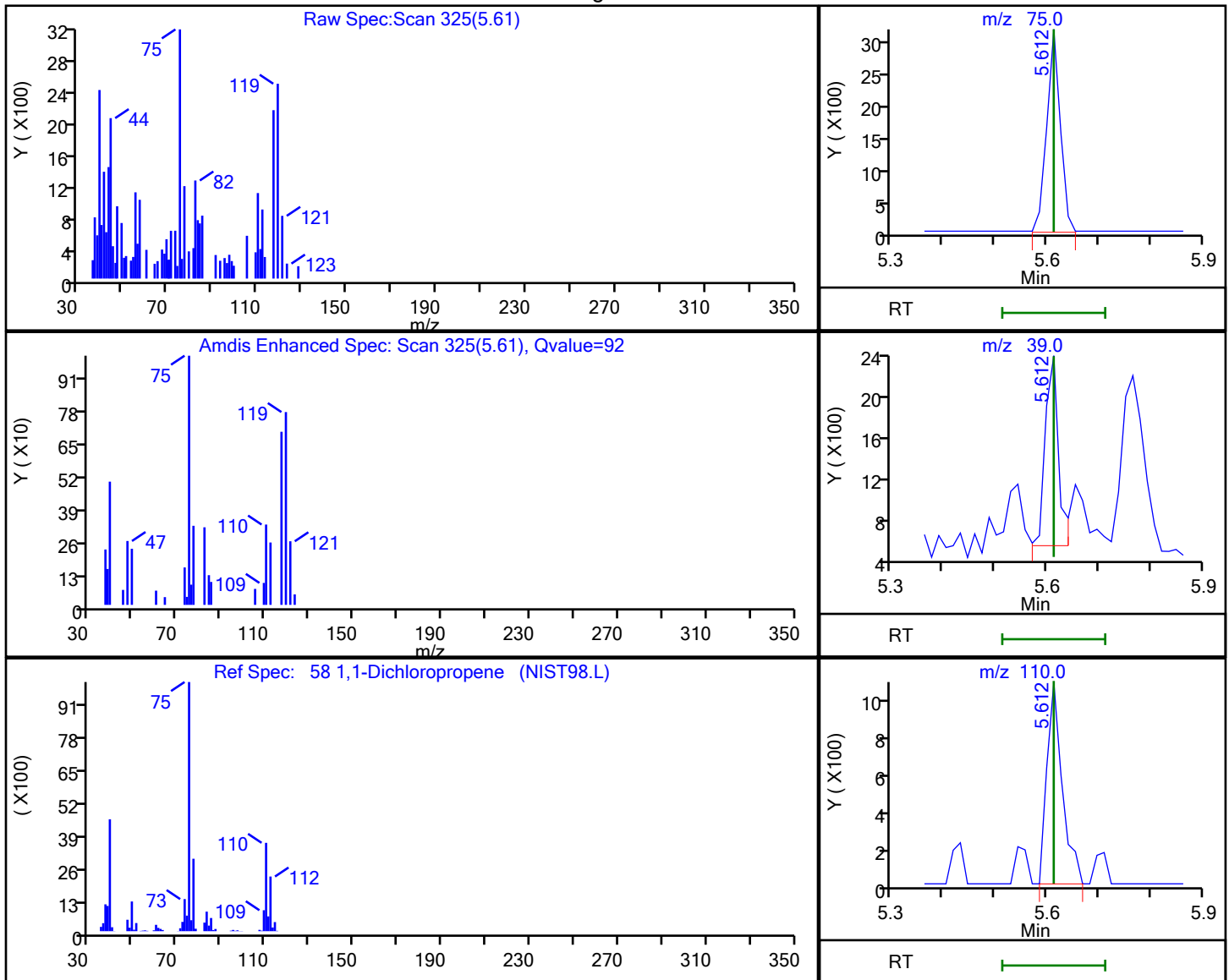
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

58 1,1-Dichloropropene, CAS: 563-58-6

Processing Results



RT	Mass	Response	Amount
5.61	75.00	5680	0.467033
5.61	39.00	3196	
5.61	110.00	2222	

Reviewer: Q2ZS, 01-Aug-2023 14:02:18 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

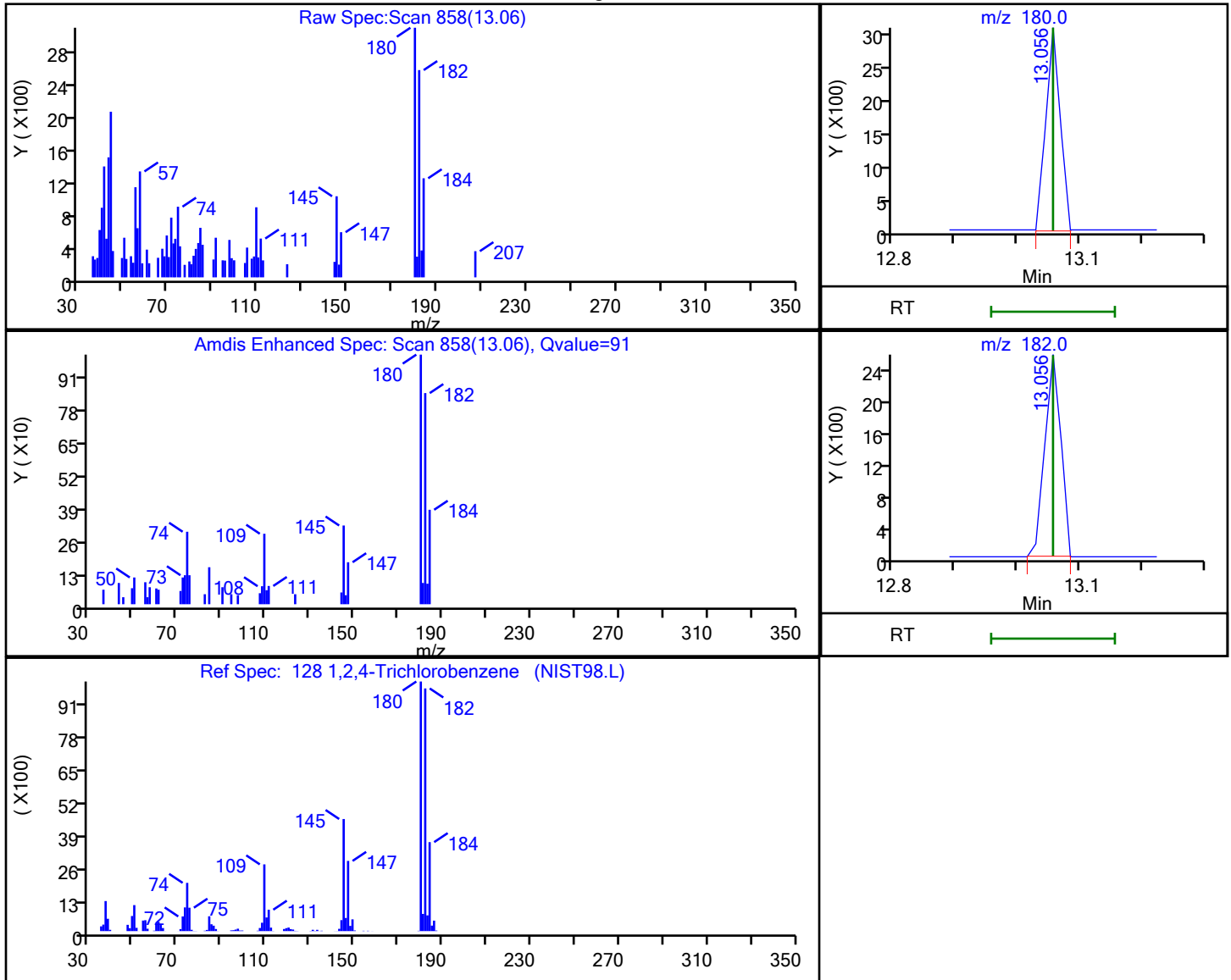
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

128 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
13.06	180.00	4930	0.459007
13.06	182.00	4583	

Reviewer: Q2ZS, 01-Aug-2023 14:05:23 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

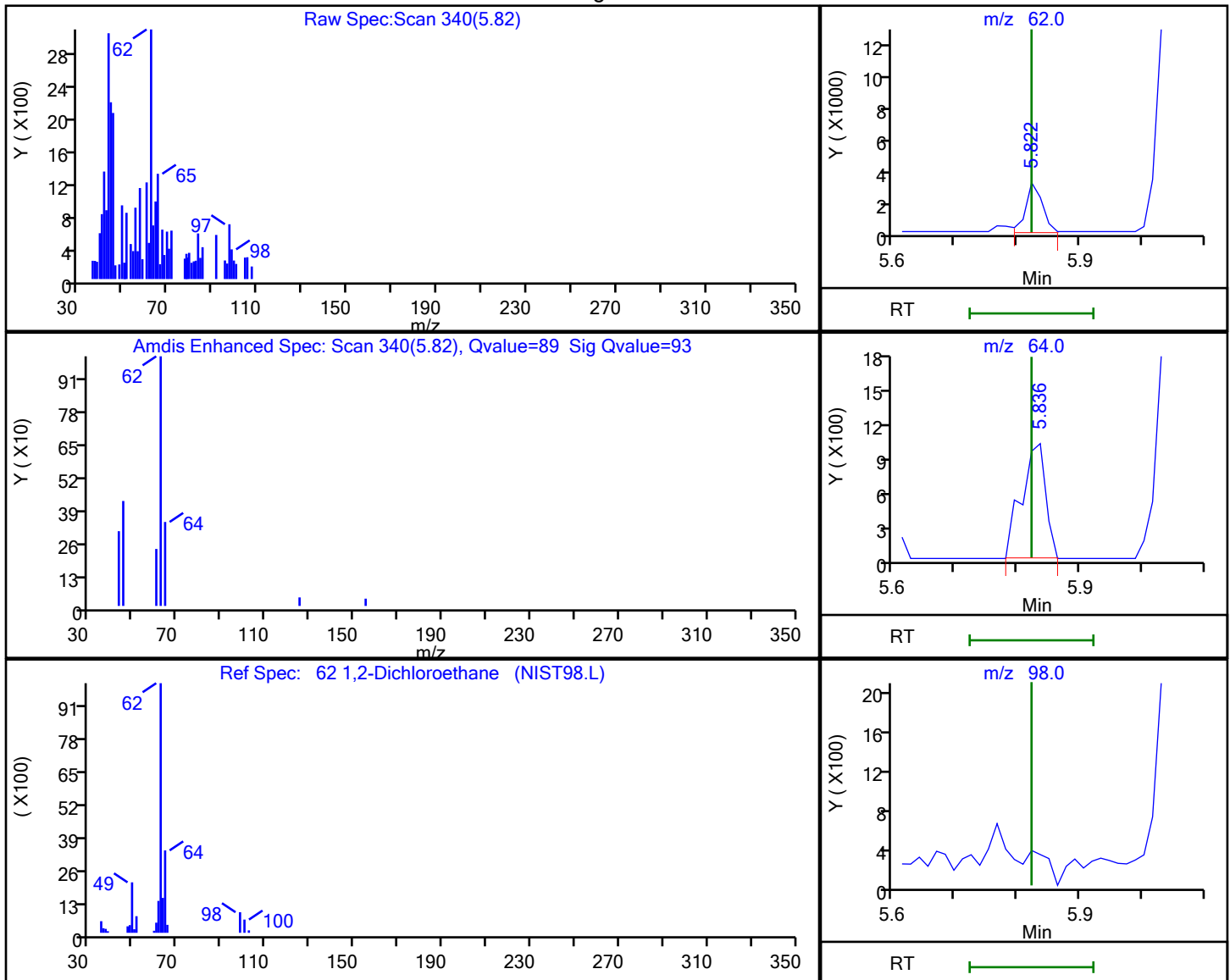
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

62 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.82	62.00	5536	0.654420
5.84	64.00	2718	
5.82	98.00	0	

Reviewer: Q2ZS, 01-Aug-2023 14:02:44 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

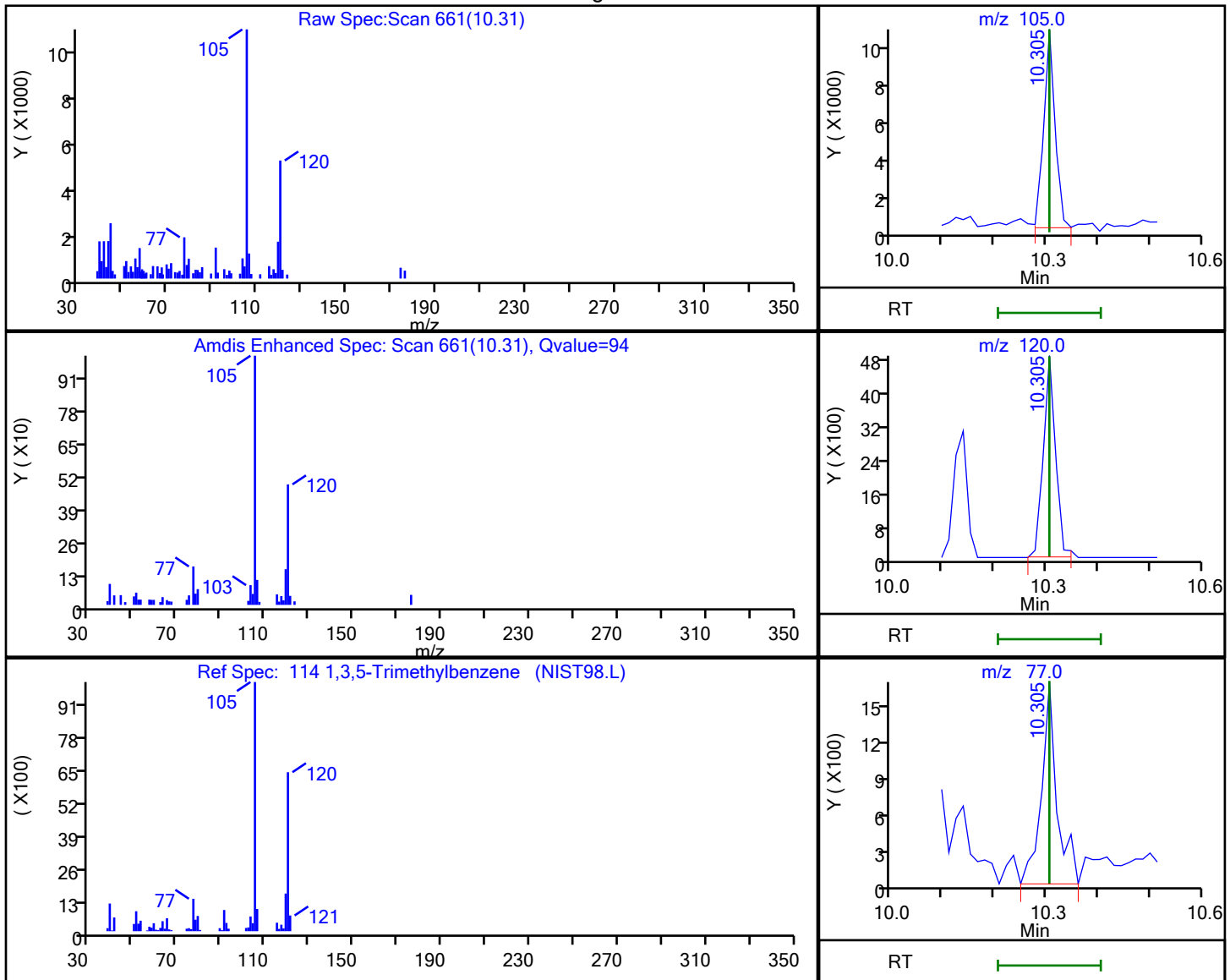
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

114 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
10.31	105.00	15325	0.458225
10.31	120.00	8083	
10.31	77.00	3546	

Reviewer: Q2ZS, 01-Aug-2023 14:04:28 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

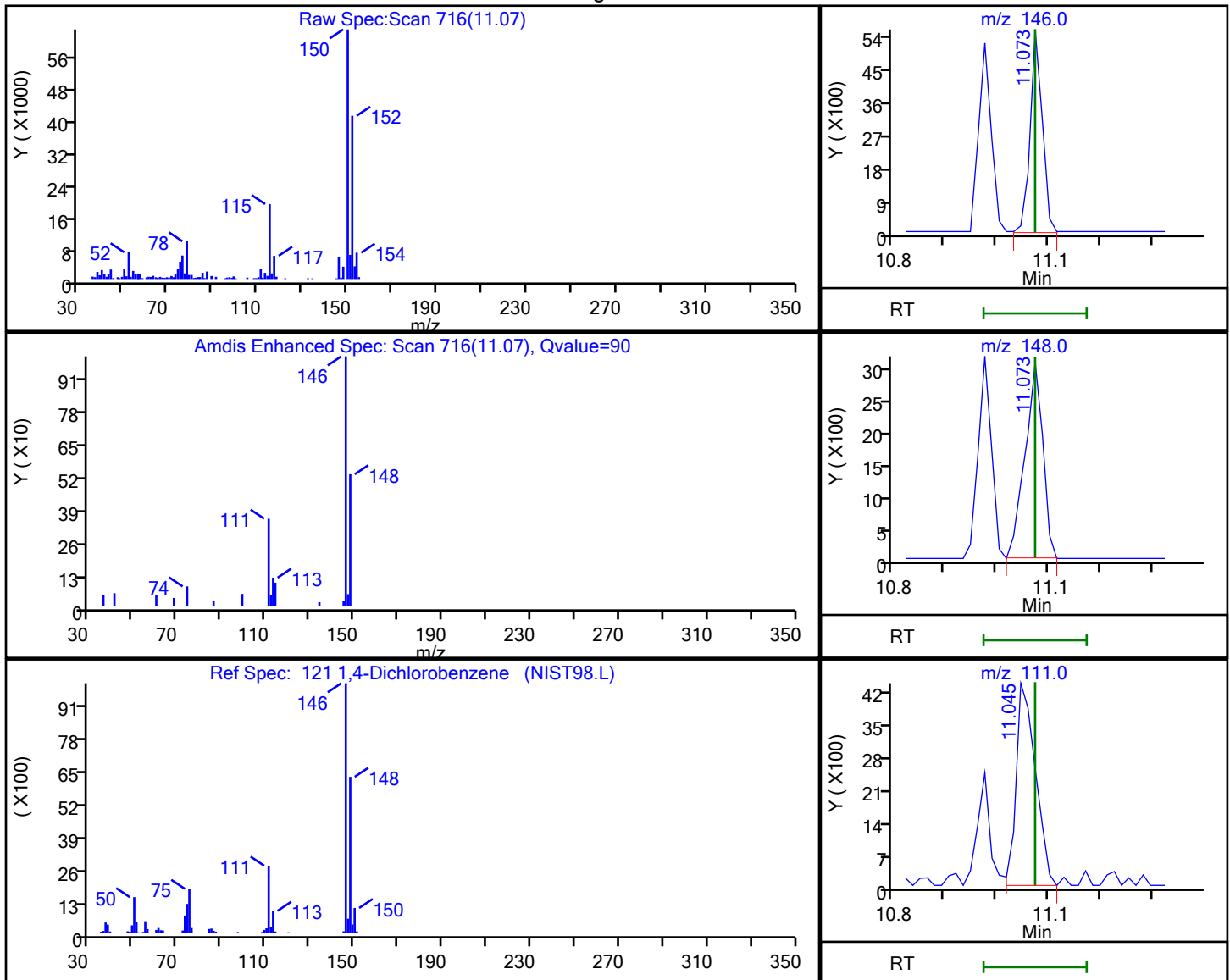
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

121 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
11.07	146.00	8965	0.483018
11.07	148.00	7466	
11.05	111.00	11340	

Reviewer: Q2ZS, 01-Aug-2023 14:05:07 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

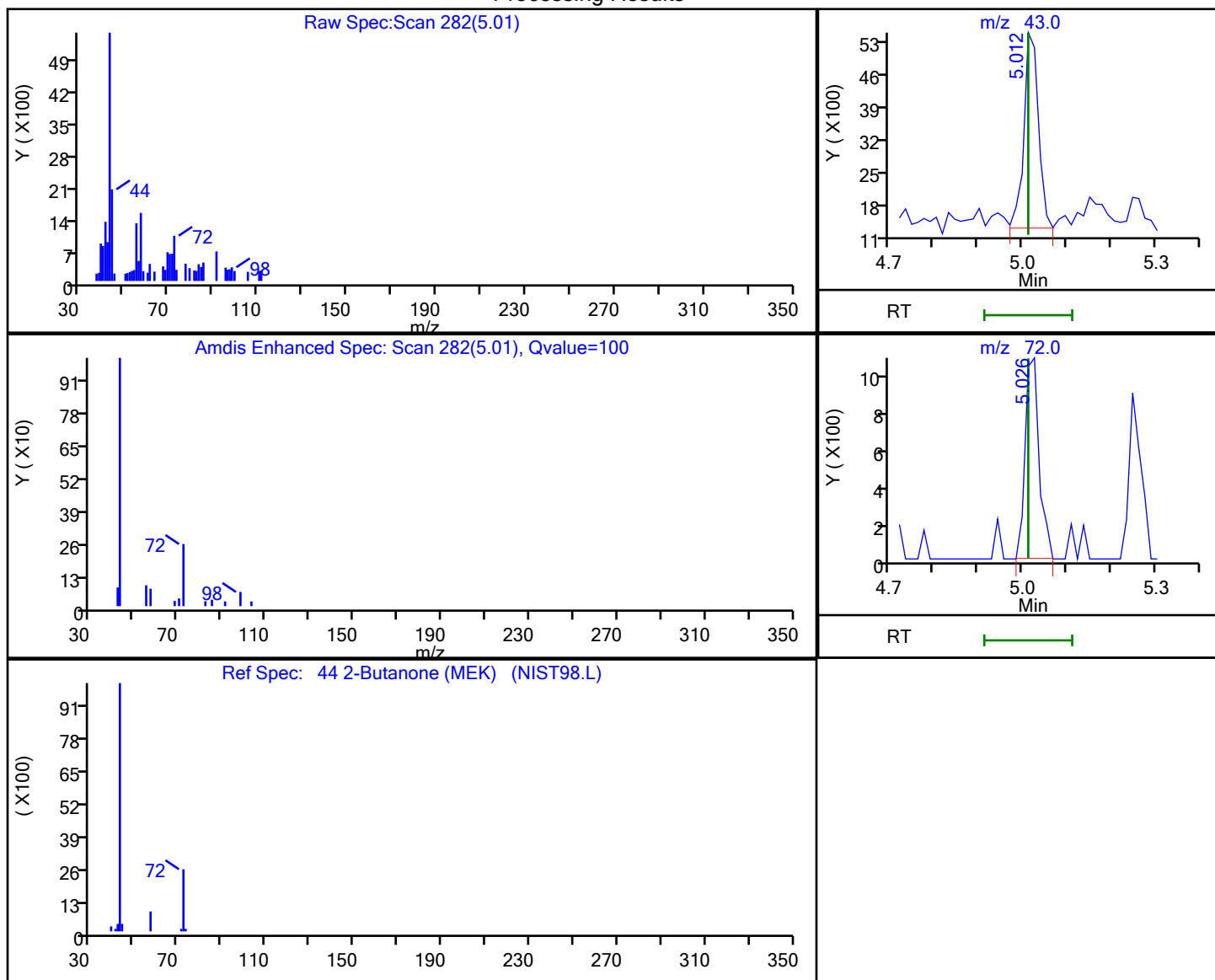
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
5.01	43.00	9711	2.054078
5.03	72.00	2332	

Reviewer: Q2ZS, 01-Aug-2023 14:00:47 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

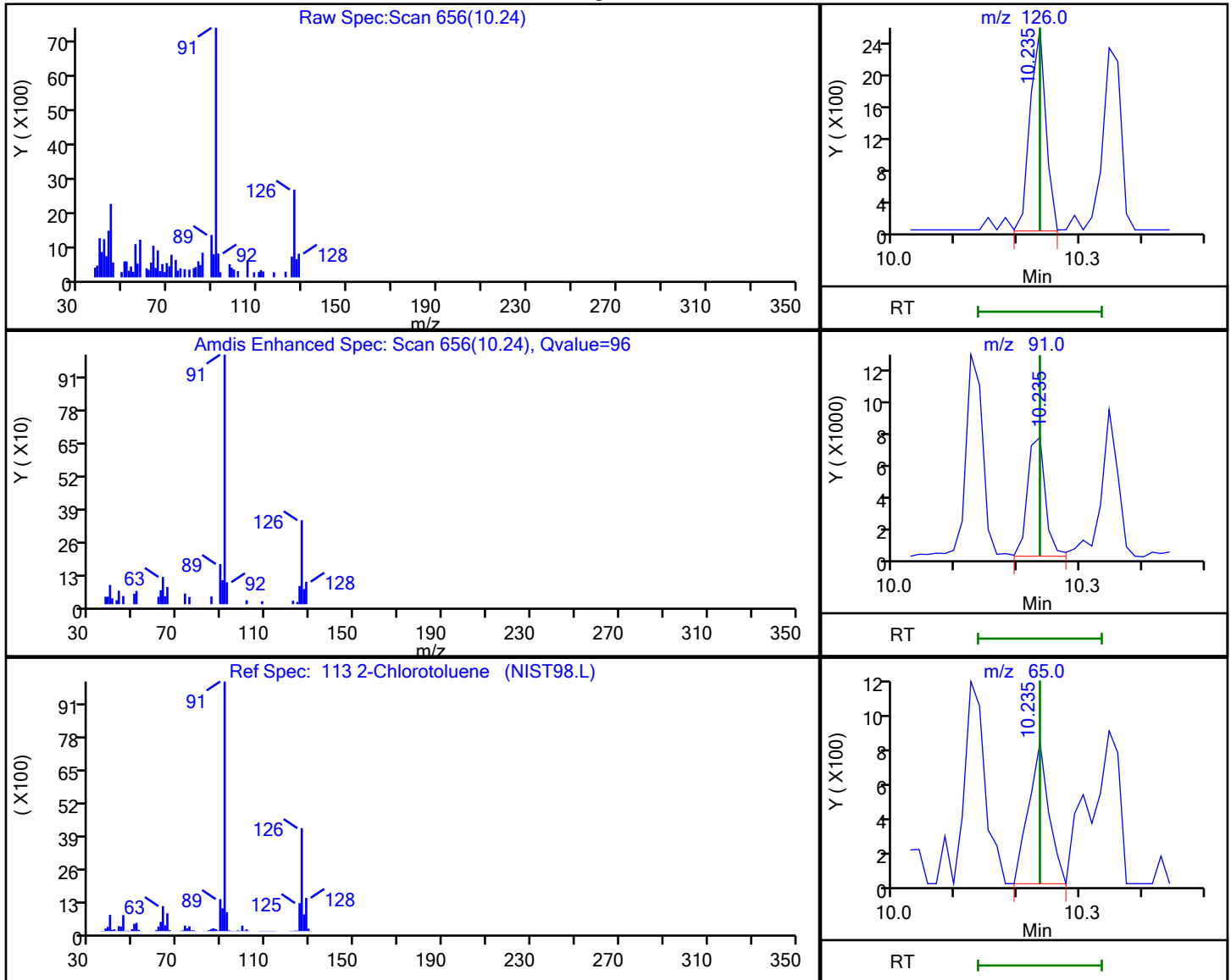
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

113 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
10.24	126.00	4512	0.478287
10.24	91.00	13846	
10.24	65.00	1795	

Reviewer: Q2ZS, 01-Aug-2023 14:04:26 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

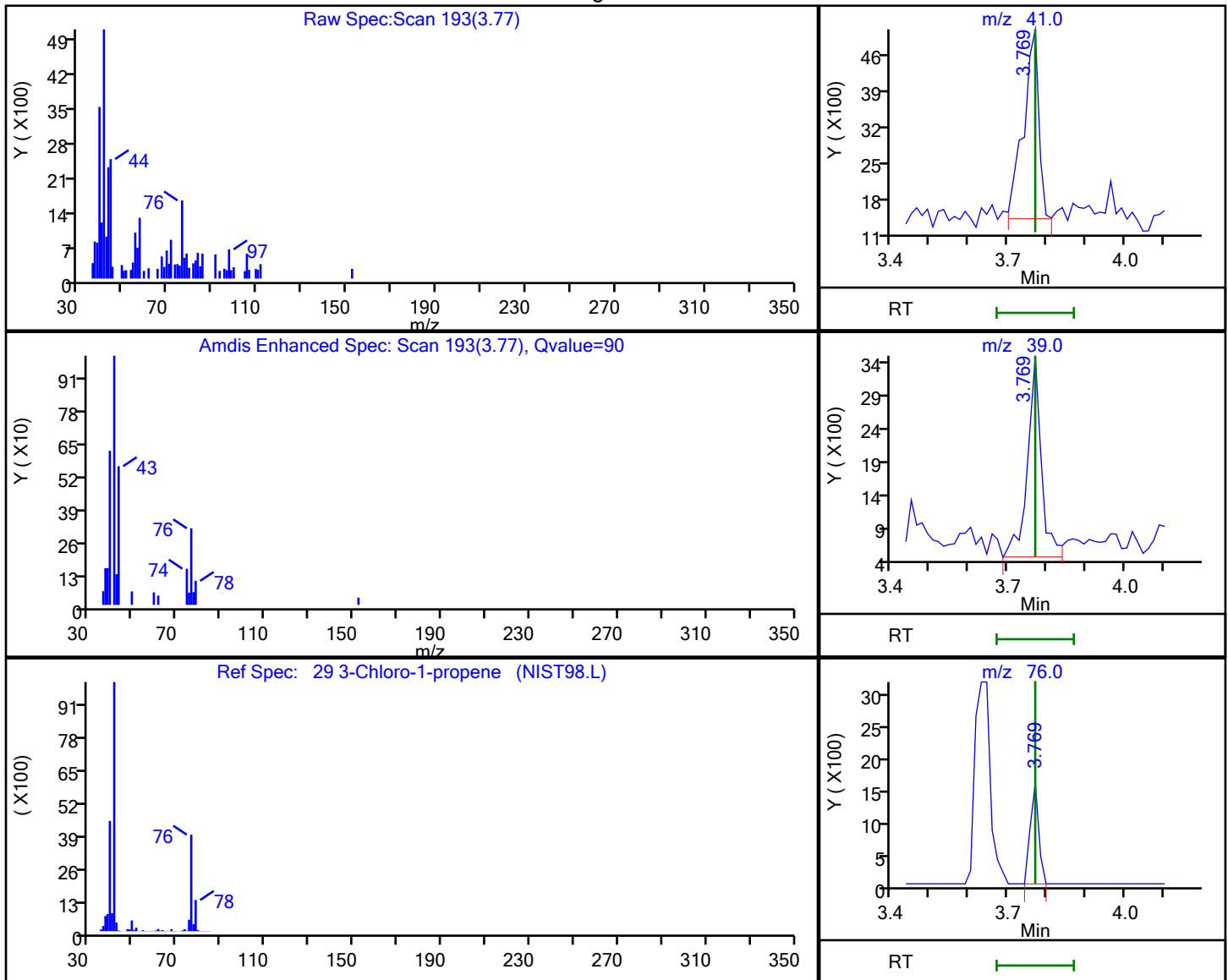
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

29 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.77	41.00	9954	0.121750
3.77	39.00	7581	
3.77	76.00	2388	

Reviewer: Q2ZS, 01-Aug-2023 13:59:34 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

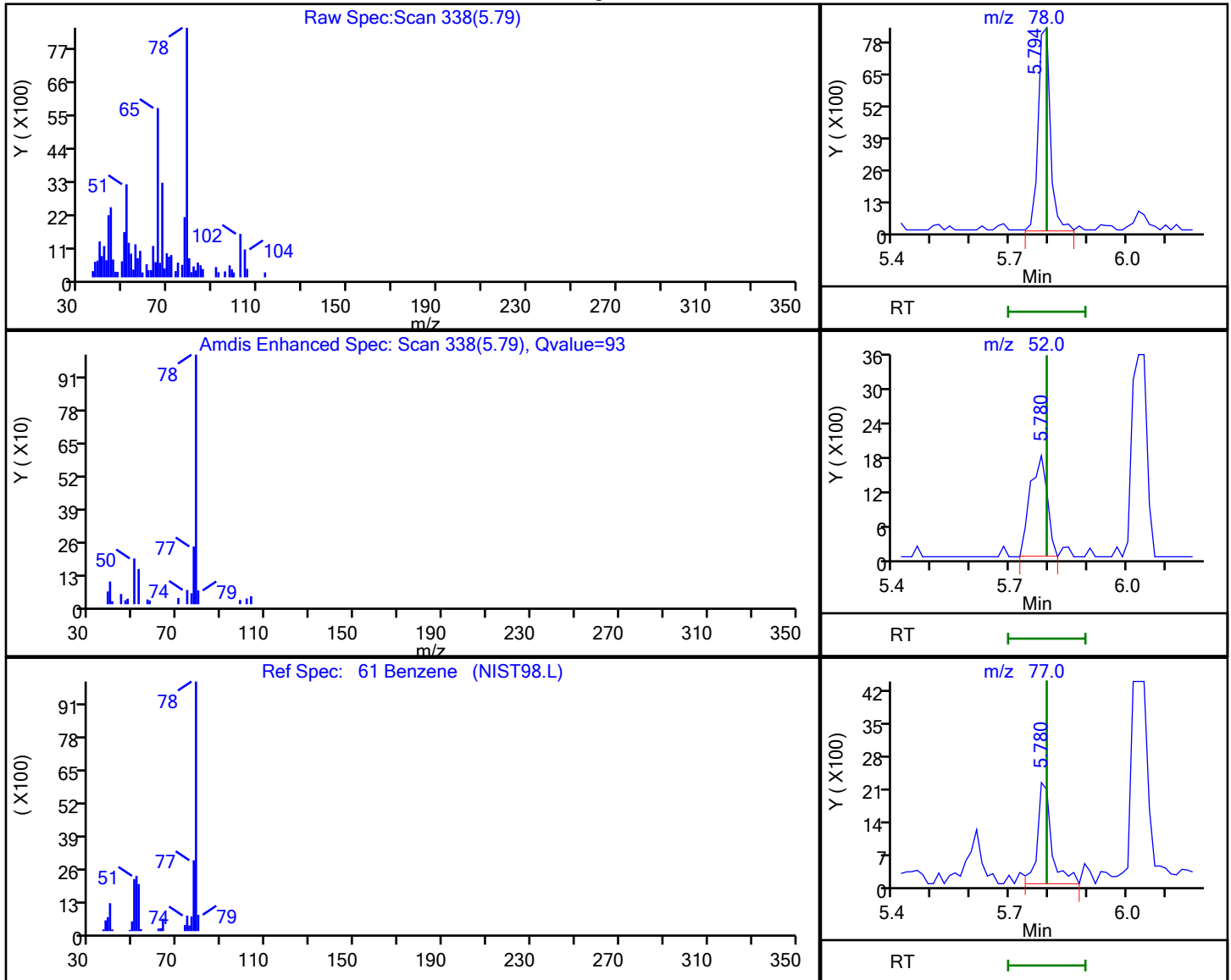
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

61 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
5.79	78.00	18144	0.467122
5.78	52.00	5438	
5.78	77.00	5548	

Reviewer: Q2ZS, 01-Aug-2023 14:02:28 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

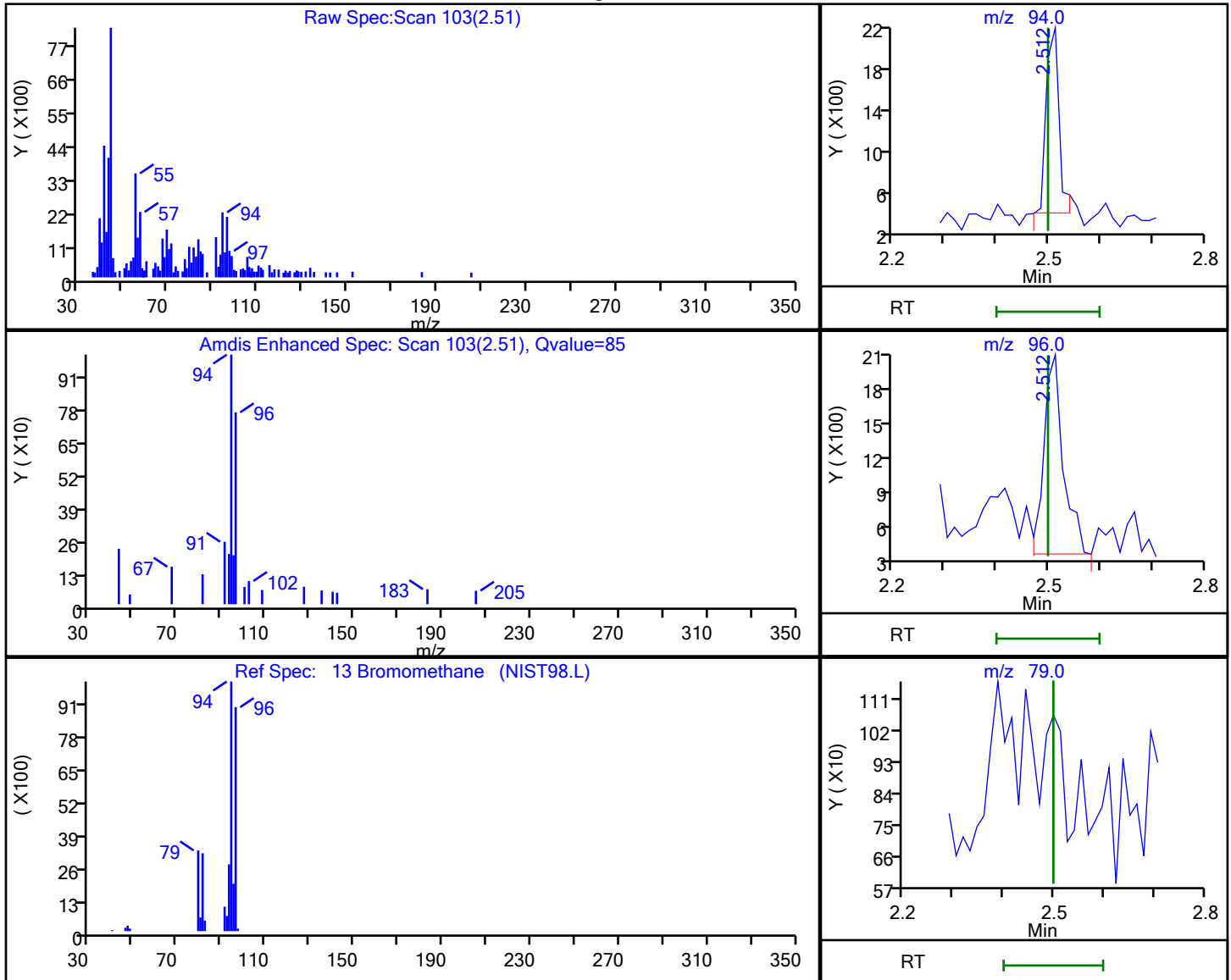
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

13 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.51	94.00	3075	0.274615
2.51	96.00	4167	
2.50	79.00	0	

Reviewer: Q2ZS, 01-Aug-2023 13:56:38 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

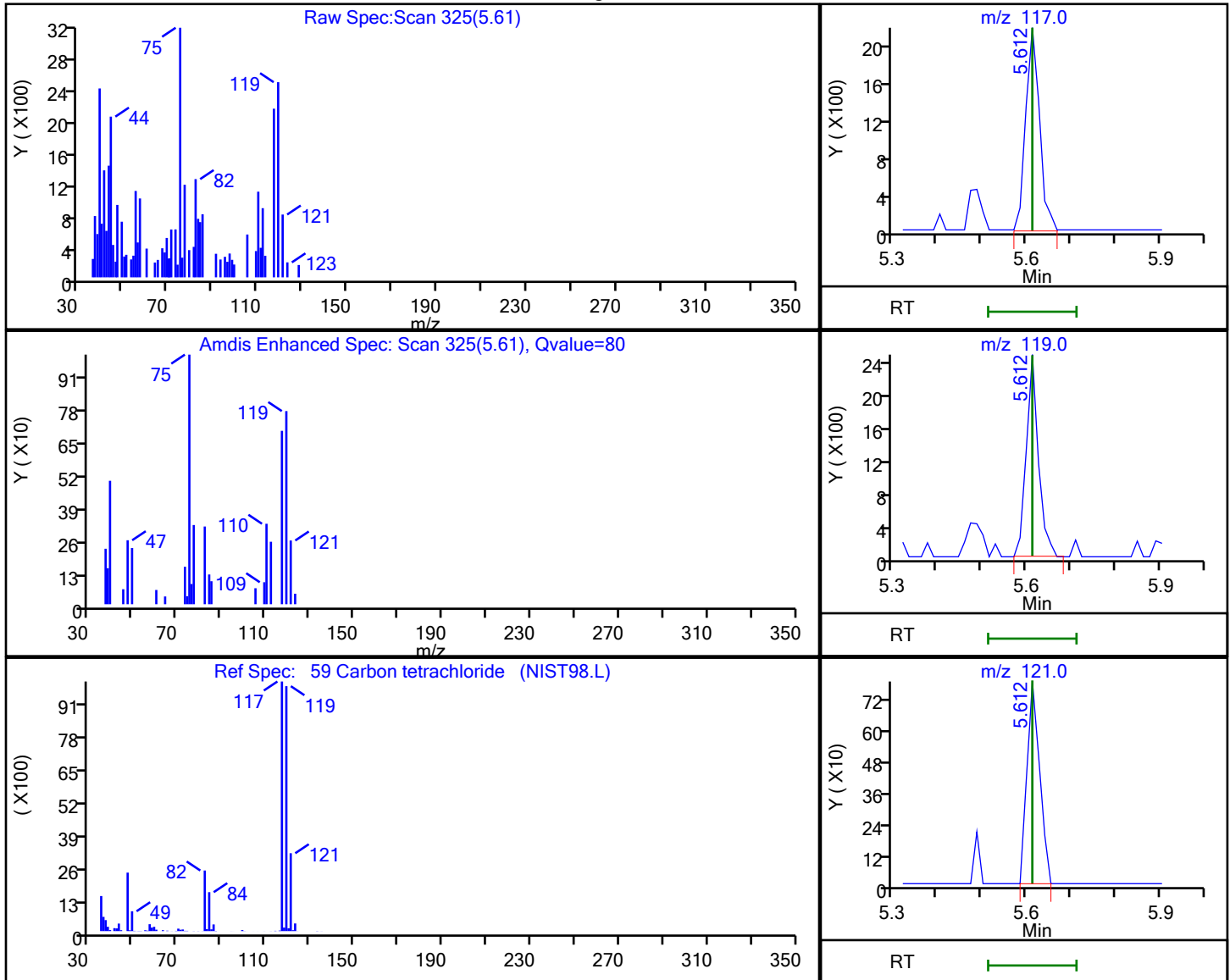
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

59 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
5.61	117.00	4588	0.459796
5.61	119.00	4693	
5.61	121.00	1575	

Reviewer: Q2ZS, 01-Aug-2023 14:02:22 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

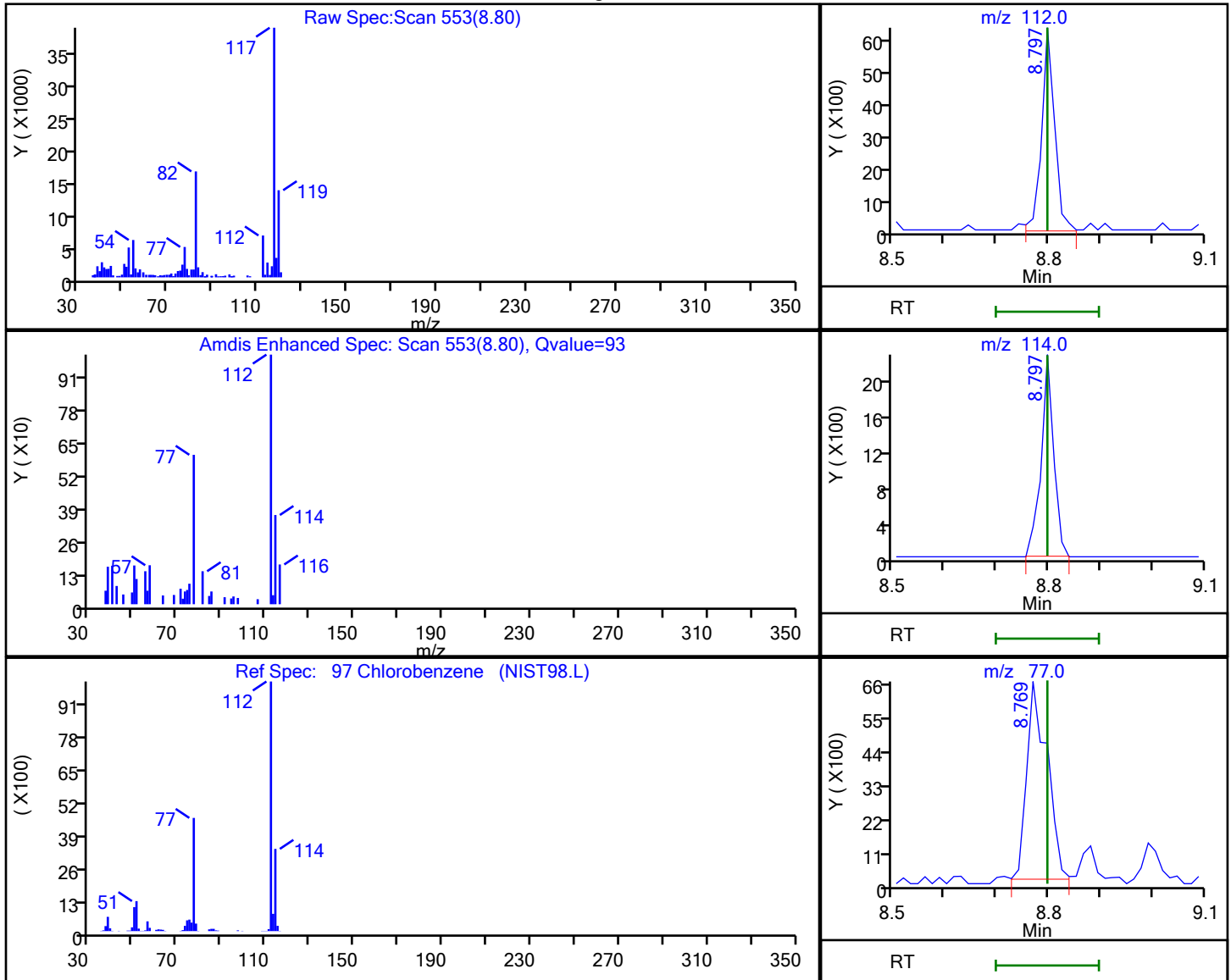
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

97 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
8.80	112.00	11043	0.460162
8.80	114.00	3849	
8.77	77.00	17919	

Reviewer: Q2ZS, 01-Aug-2023 14:03:30 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

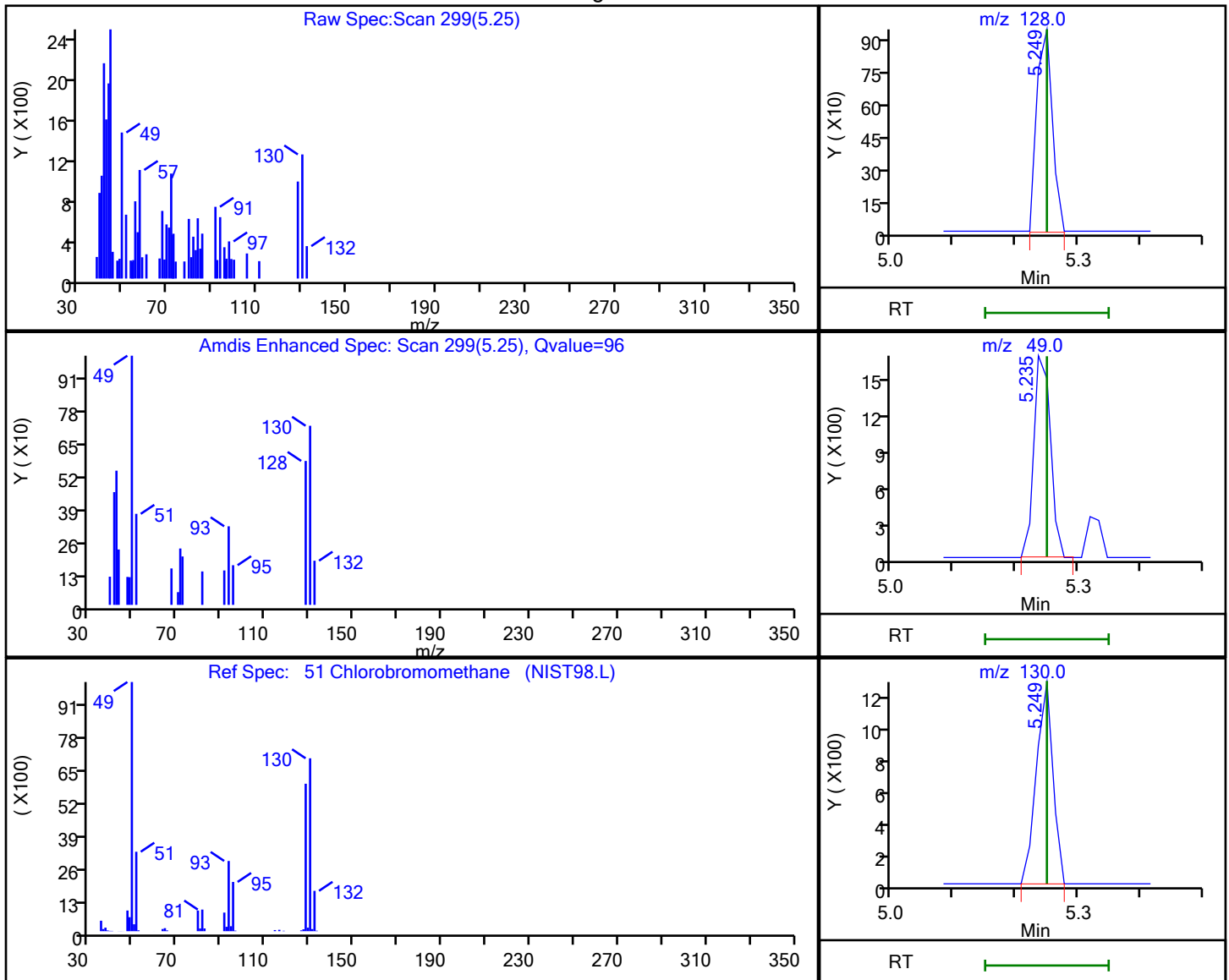
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

51 Chlorobromomethane, CAS: 74-97-5

Processing Results



RT	Mass	Response	Amount
5.25	128.00	1660	0.285627
5.24	49.00	3018	
5.25	130.00	2261	

Reviewer: Q2ZS, 01-Aug-2023 14:01:13 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

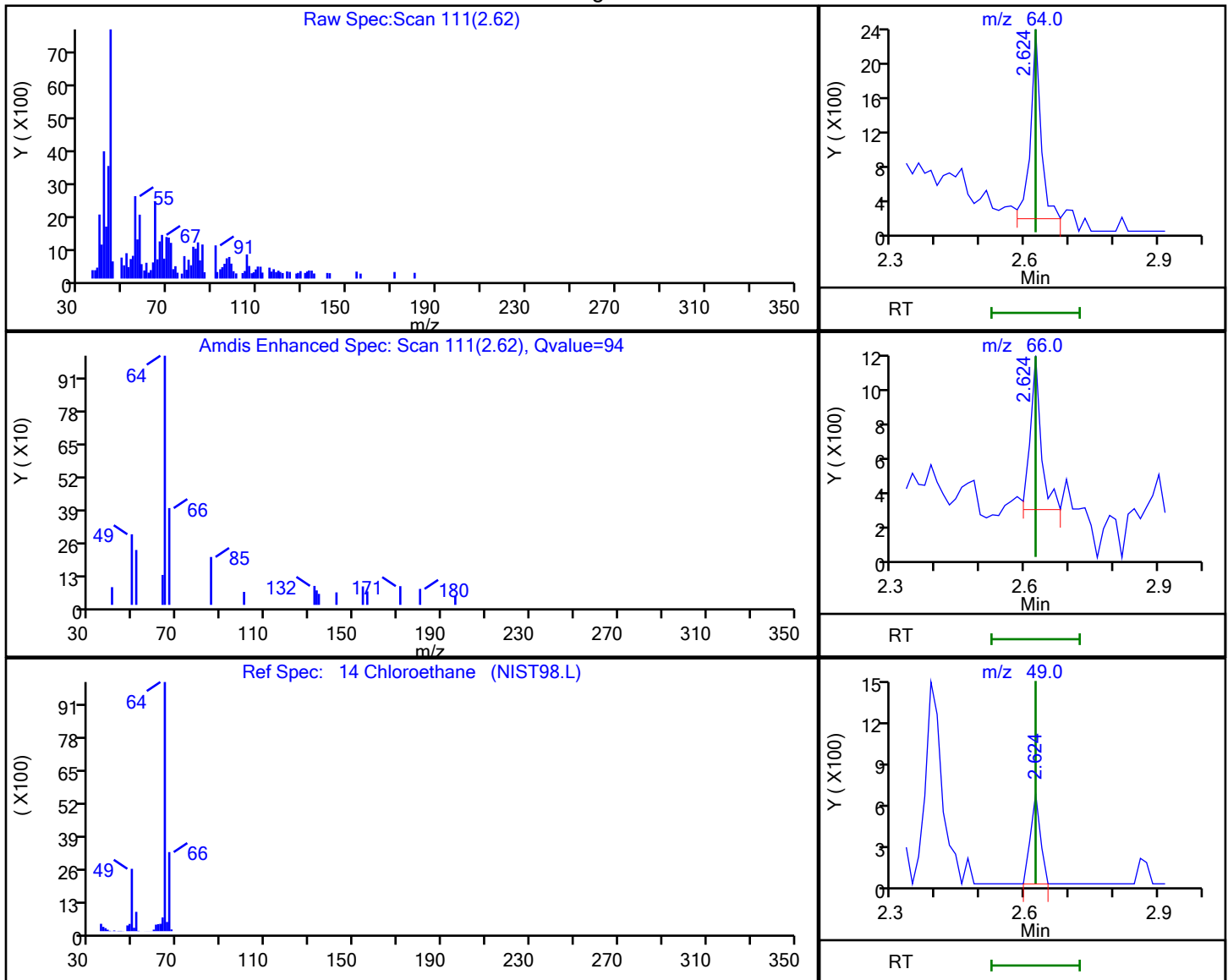
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

14 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.62	64.00	3600	0.174935
2.62	66.00	1448	
2.62	49.00	1001	

Reviewer: Q2ZS, 01-Aug-2023 13:57:39 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

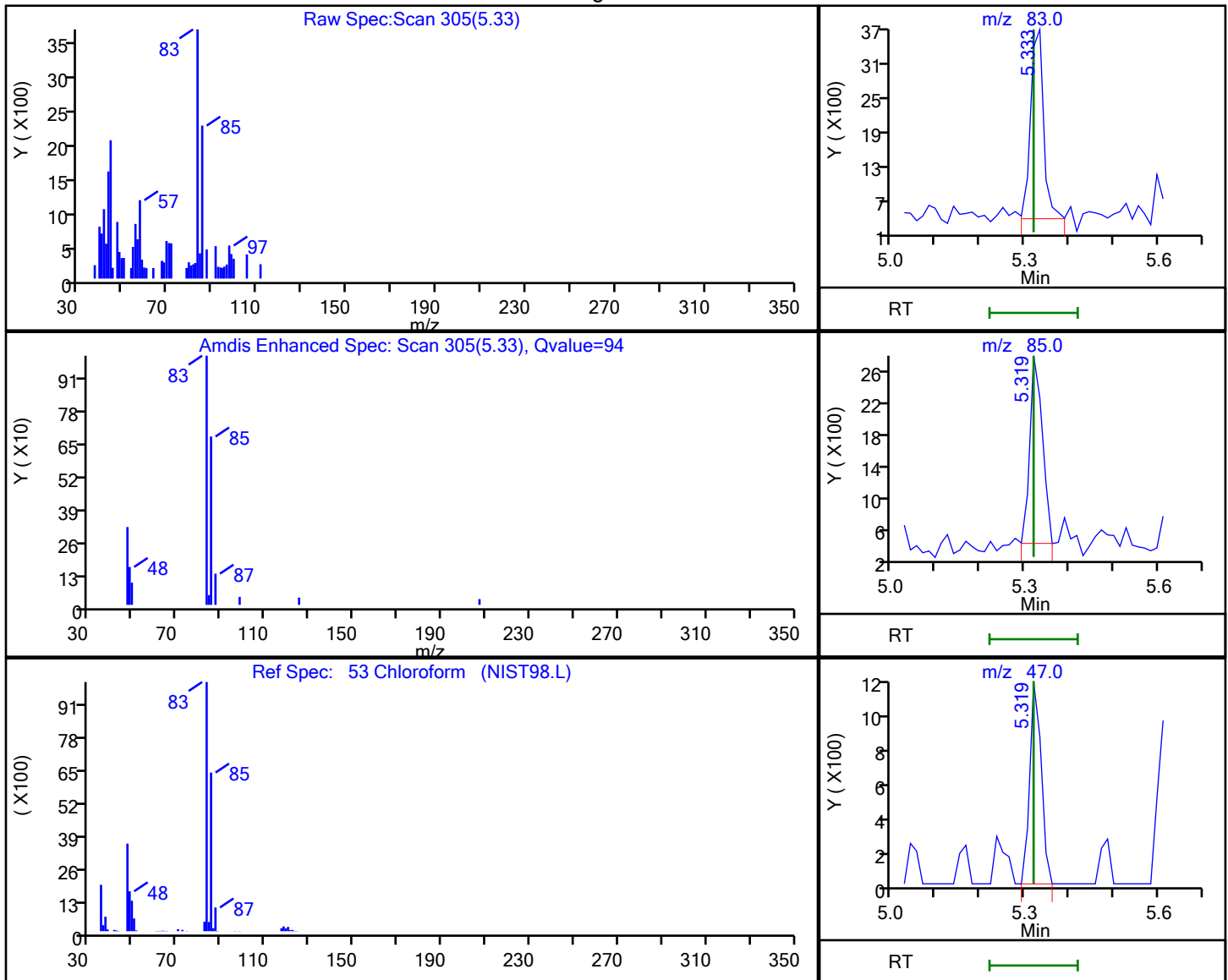
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
Injection Date: 01-Aug-2023 12:42:30 Instrument ID: VMS_MS1
Lims ID: ic
Client ID:
Operator ID: wickhamt ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

53 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
5.33	83.00	6515	0.601633
5.32	85.00	4498	
5.32	47.00	2032	

Reviewer: Q2ZS, 01-Aug-2023 14:01:38 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

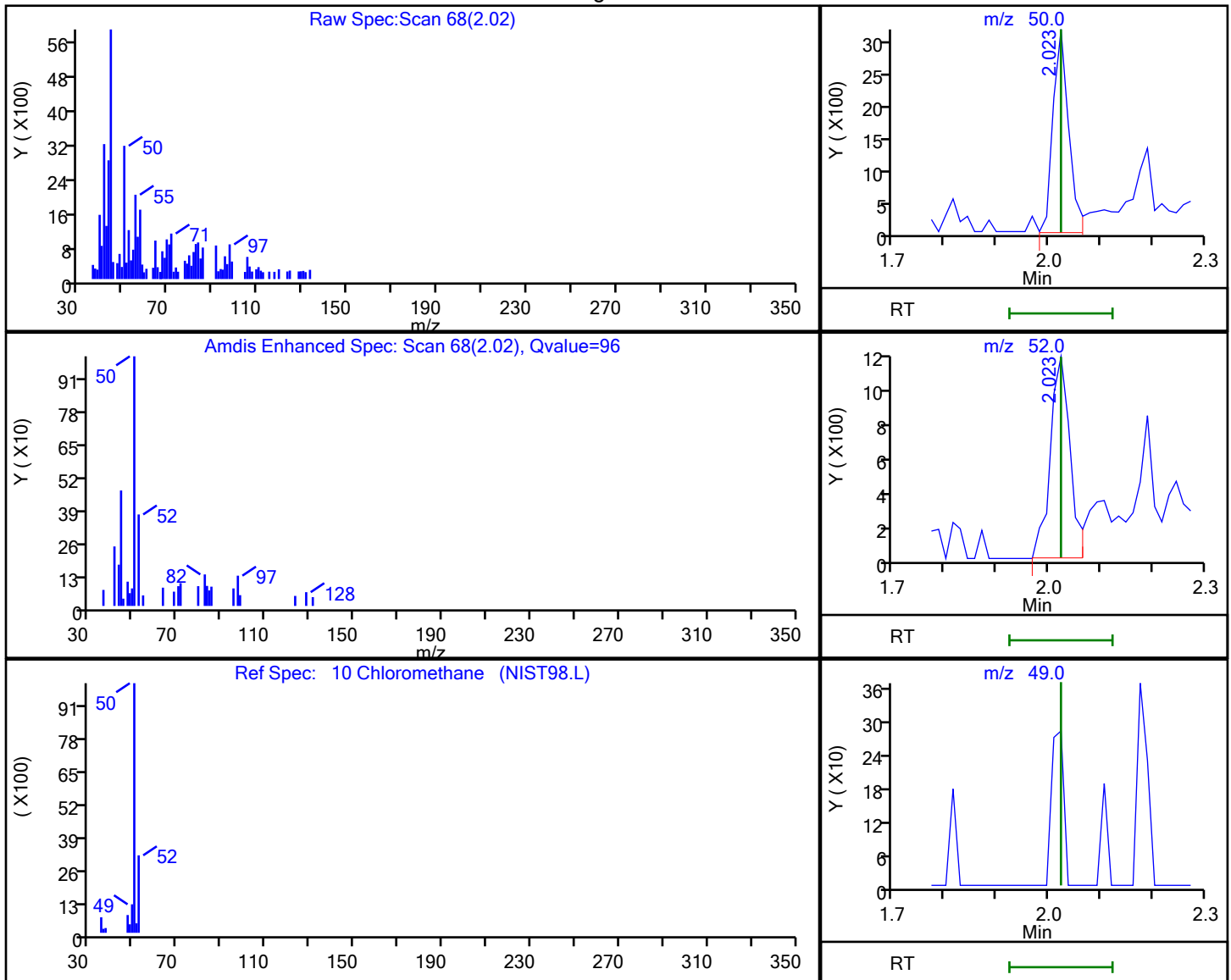
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
2.02	50.00	6547	0.277761
2.02	52.00	3076	
2.02	49.00	0	

Reviewer: Q2ZS, 01-Aug-2023 13:55:52 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

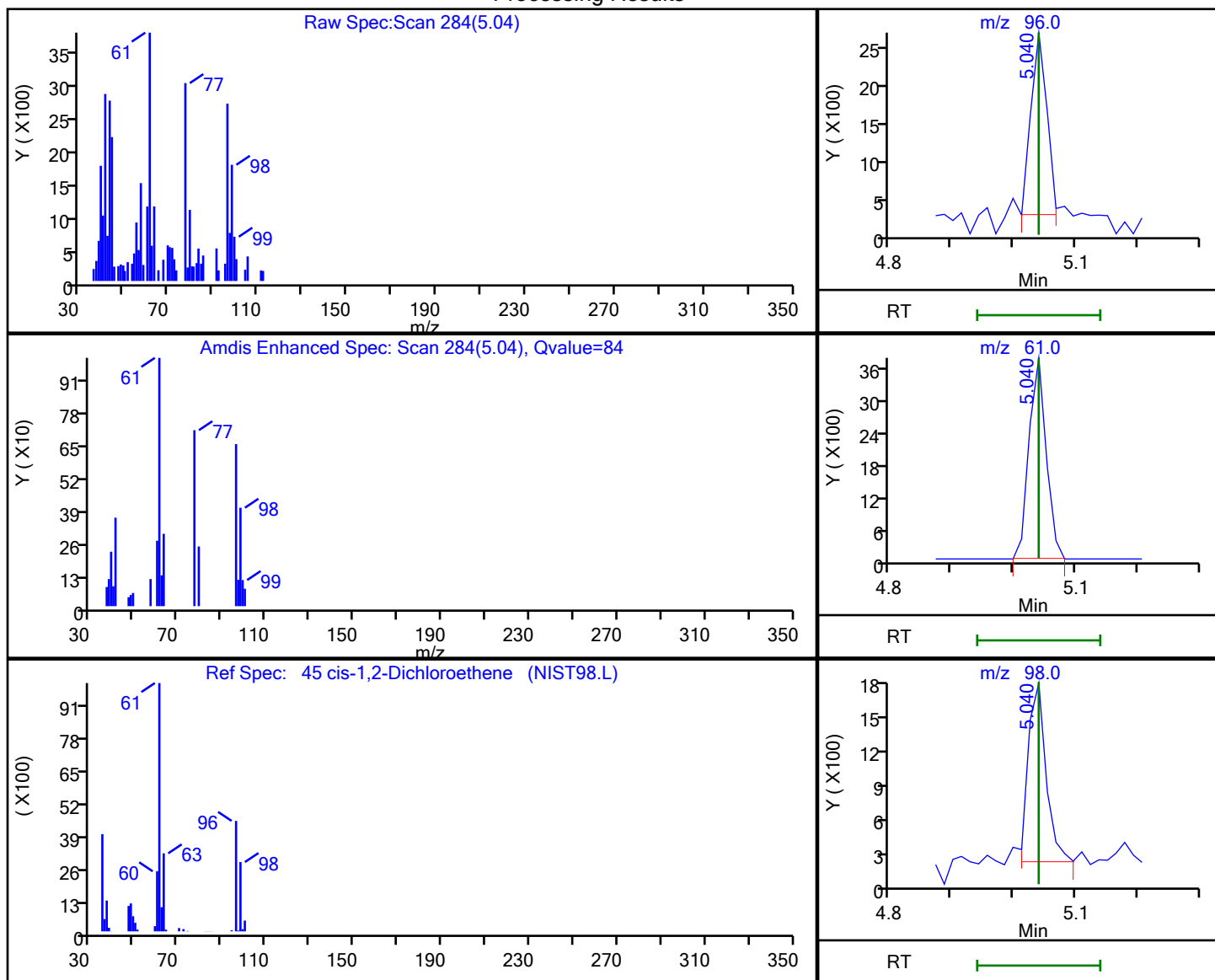
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

45 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



RT	Mass	Response	Amount
5.04	96.00	4386	0.370686
5.04	61.00	7322	
5.04	98.00	3136	

Reviewer: Q2ZS, 01-Aug-2023 14:00:55 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

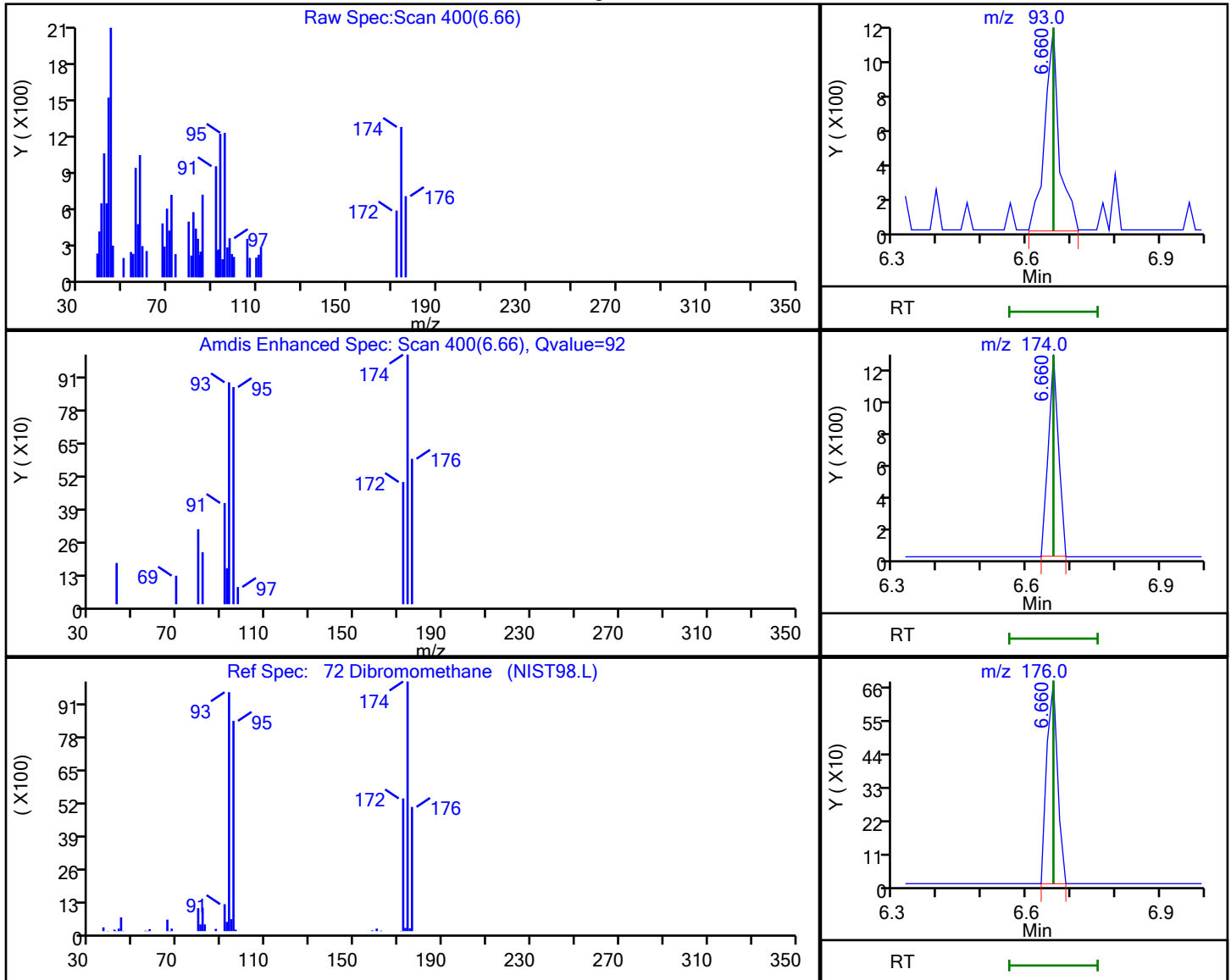
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

72 Dibromomethane, CAS: 74-95-3

Processing Results



RT	Mass	Response	Amount
6.66	93.00	2682	0.500357
6.66	174.00	1996	
6.66	176.00	1141	

Reviewer: Q2ZS, 01-Aug-2023 14:03:09 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

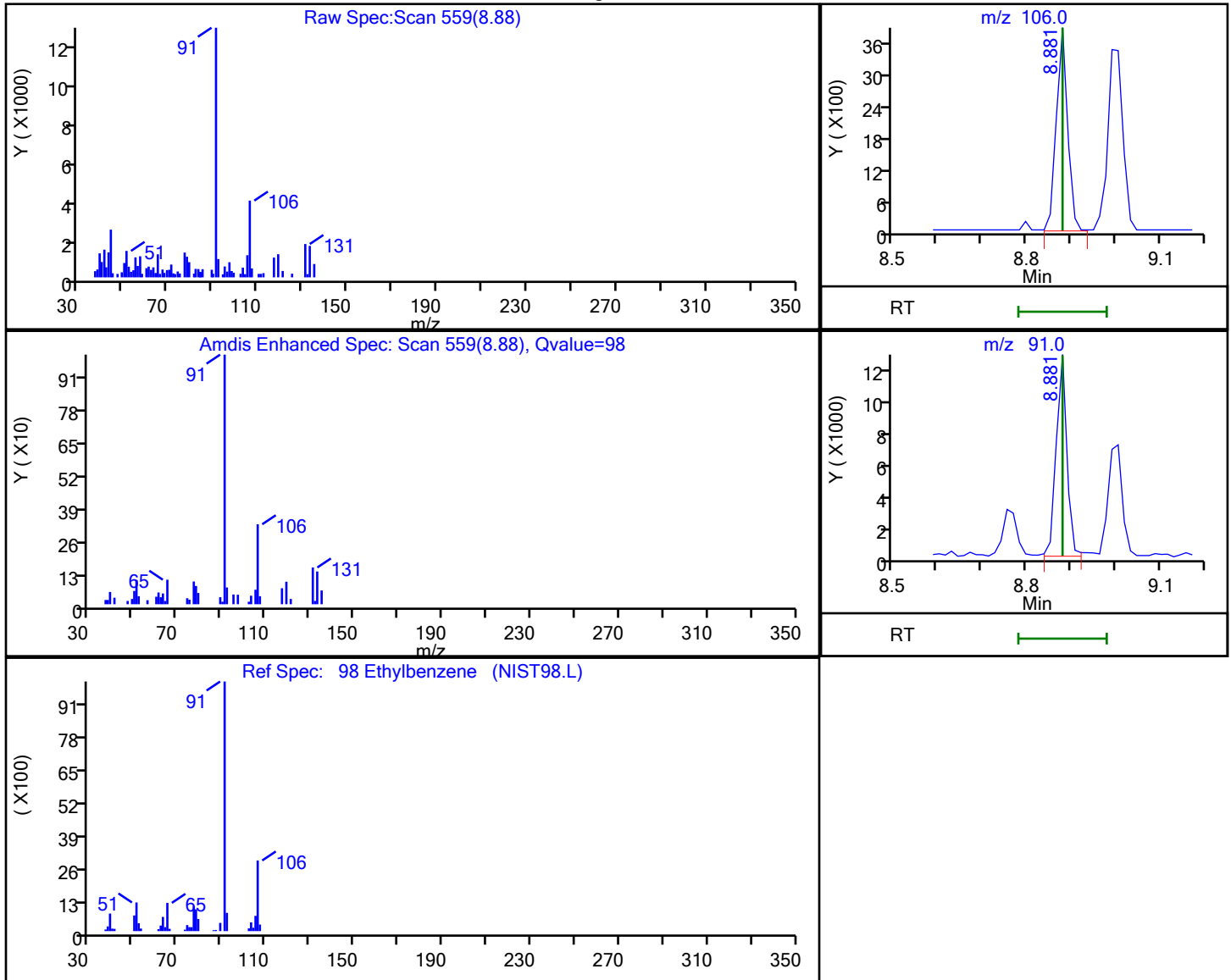
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

98 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
8.88	106.00	6796	0.703941
8.88	91.00	20469	

Reviewer: Q2ZS, 01-Aug-2023 14:03:37 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

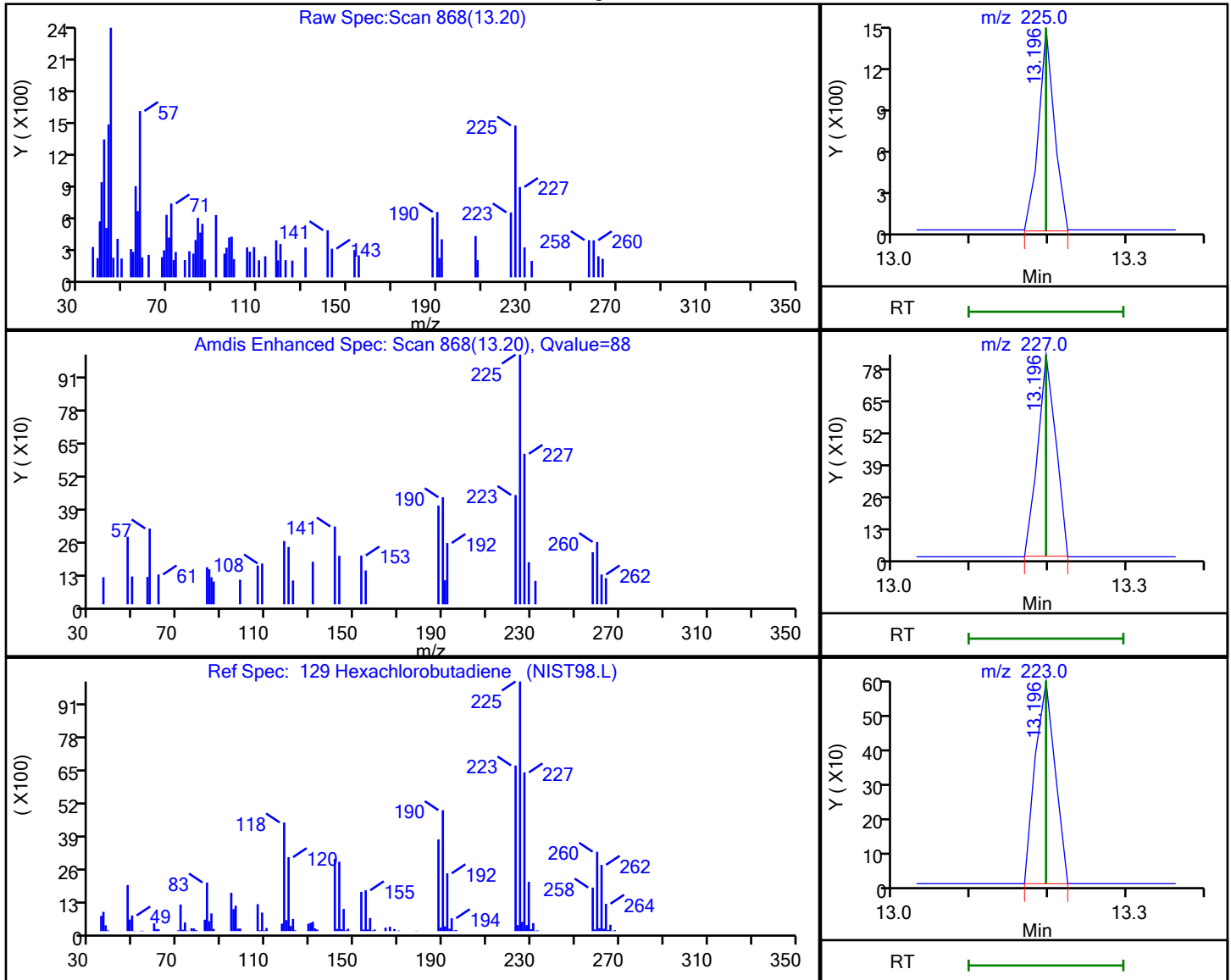
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

129 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
13.20	225.00	1966	0.479719
13.20	227.00	1355	
13.20	223.00	1065	

Reviewer: Q2ZS, 01-Aug-2023 14:05:27 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

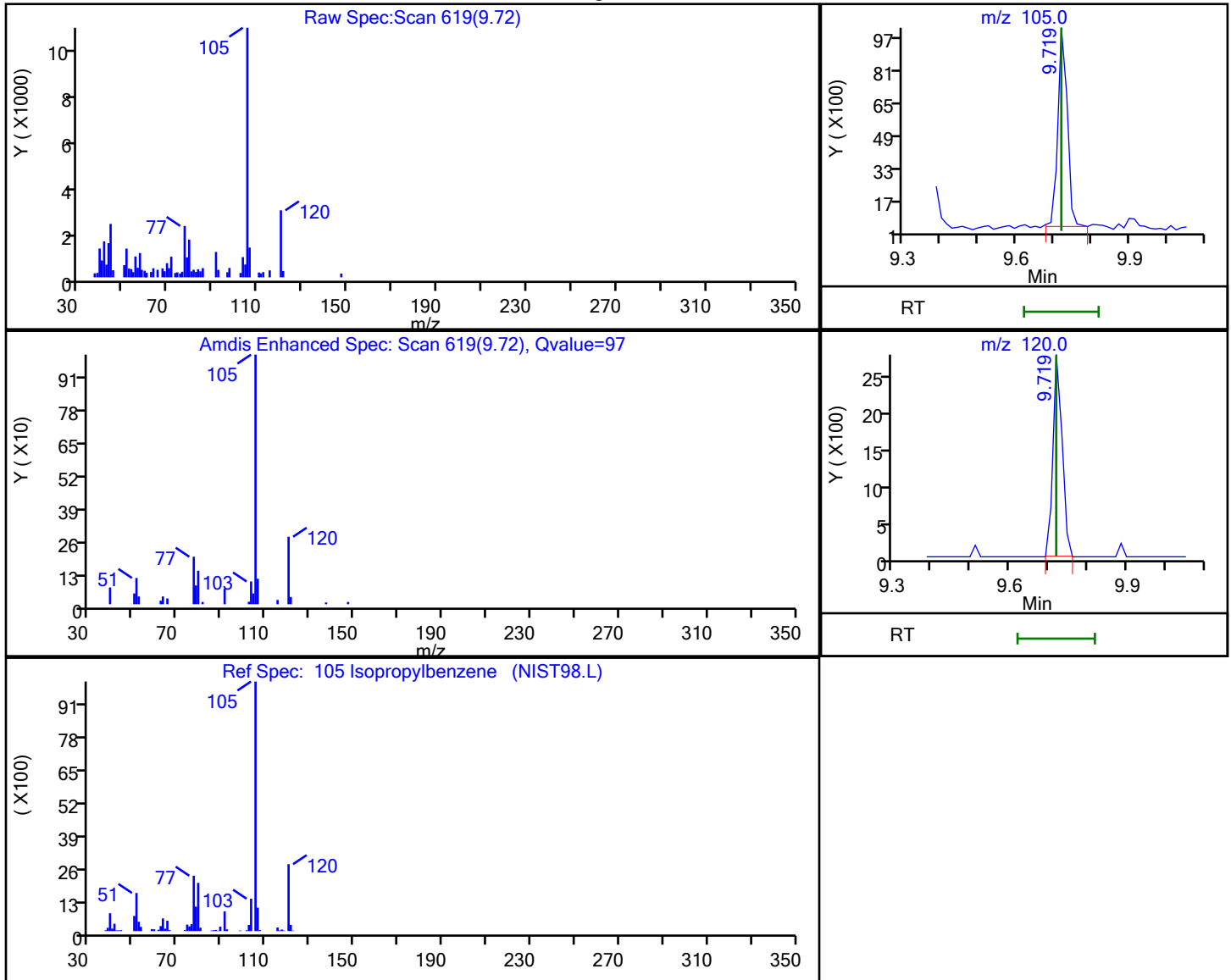
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

105 Isopropylbenzene, CAS: 98-82-8

Processing Results



RT	Mass	Response	Amount
9.72	105.00	17182	0.455346
9.72	120.00	4503	

Reviewer: Q2ZS, 01-Aug-2023 14:04:09 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

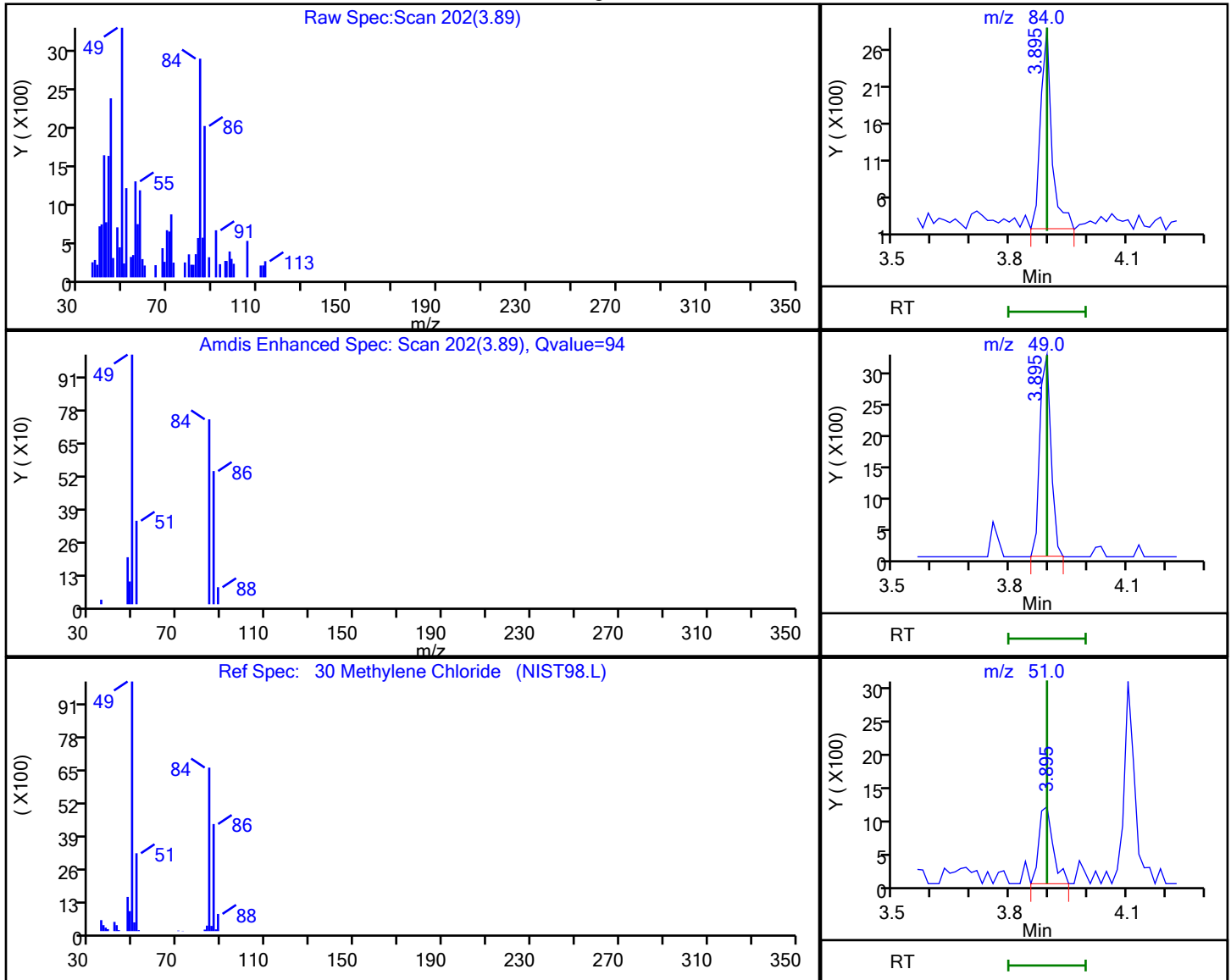
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.89	84.00	5344	0.472543
3.89	49.00	6418	
3.89	51.00	2893	

Reviewer: Q2ZS, 01-Aug-2023 13:59:48 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

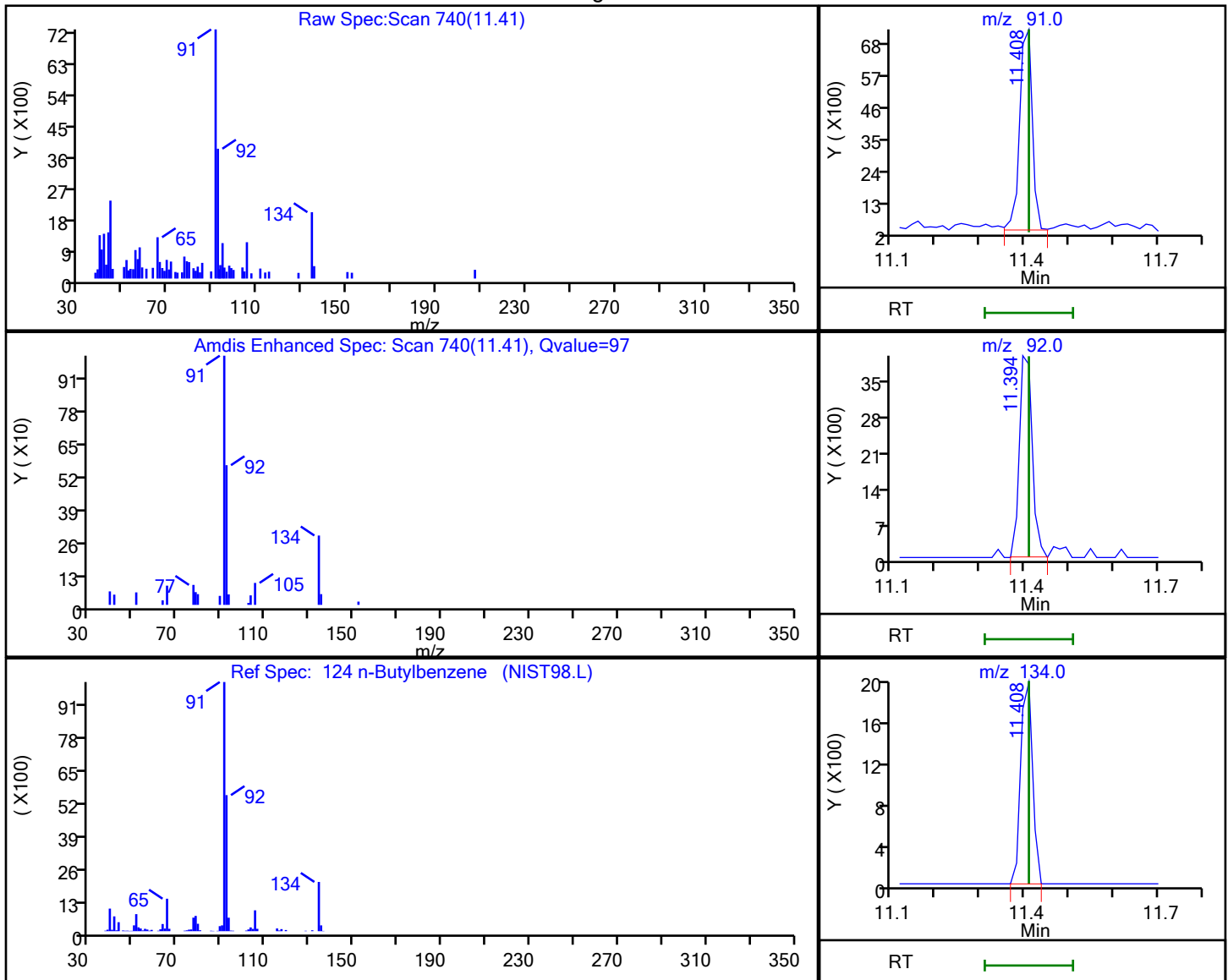
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

124 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
11.41	91.00	13623	0.460979
11.39	92.00	8013	
11.41	134.00	3605	

Reviewer: Q2ZS, 01-Aug-2023 14:05:11 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

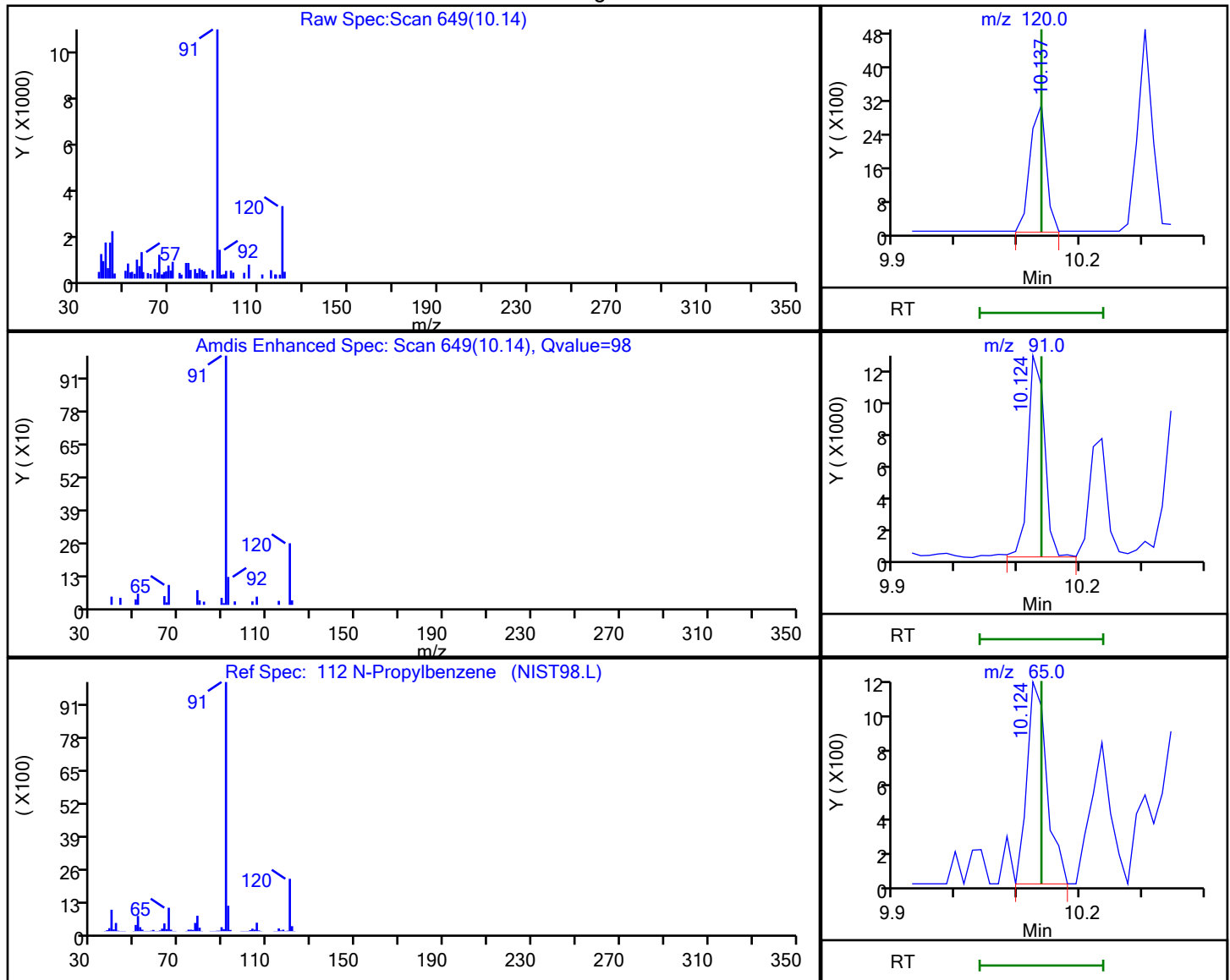
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

112 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
10.14	120.00	5493	0.482148
10.12	91.00	21907	
10.12	65.00	2542	

Reviewer: Q2ZS, 01-Aug-2023 14:04:23 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

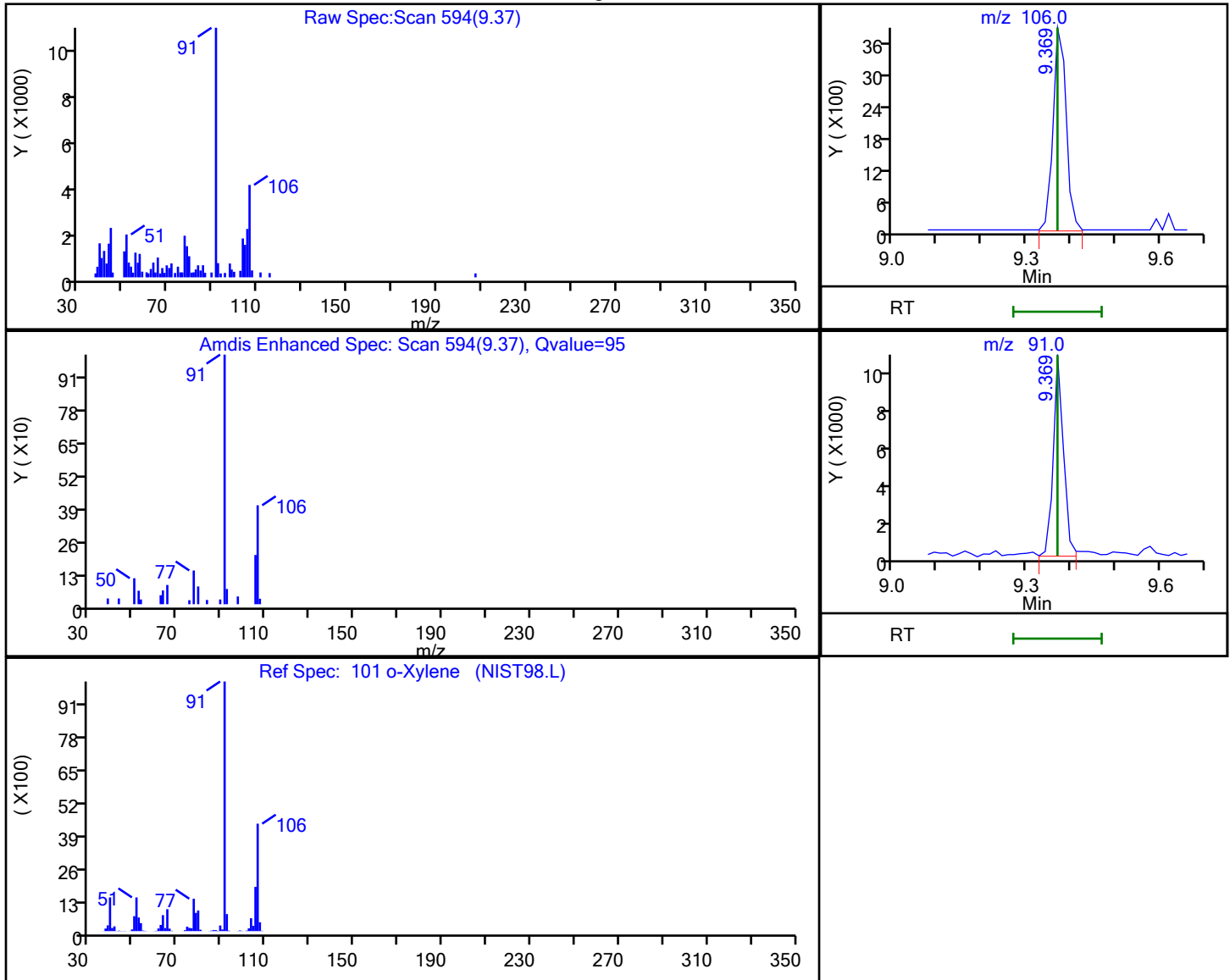
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

101 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
9.37	106.00	7826	0.464596
9.37	91.00	15965	

Reviewer: Q2ZS, 01-Aug-2023 14:03:49 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

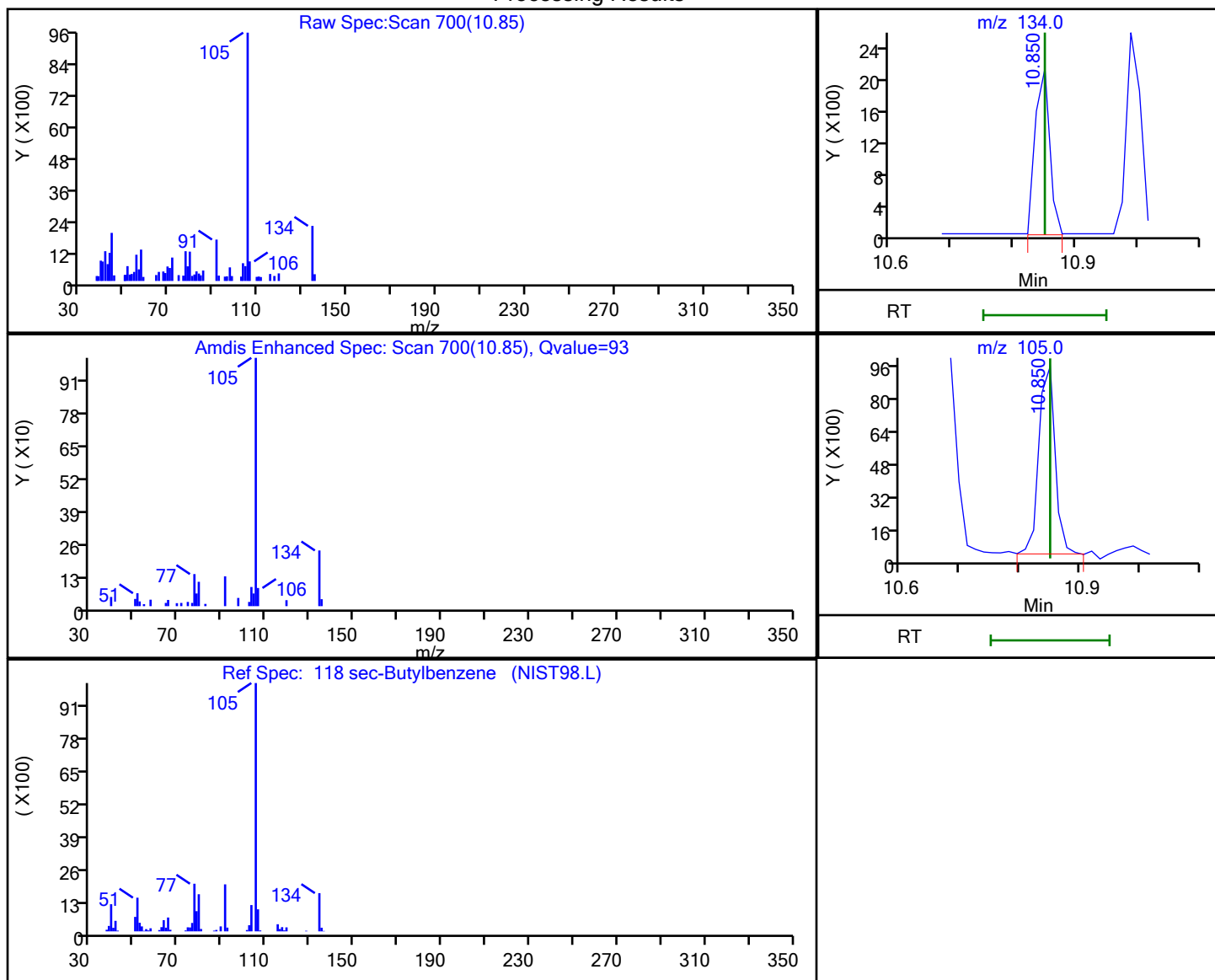
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

118 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
10.85	134.00	3455	0.491008
10.85	105.00	17984	

Reviewer: Q2ZS, 01-Aug-2023 14:04:52 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

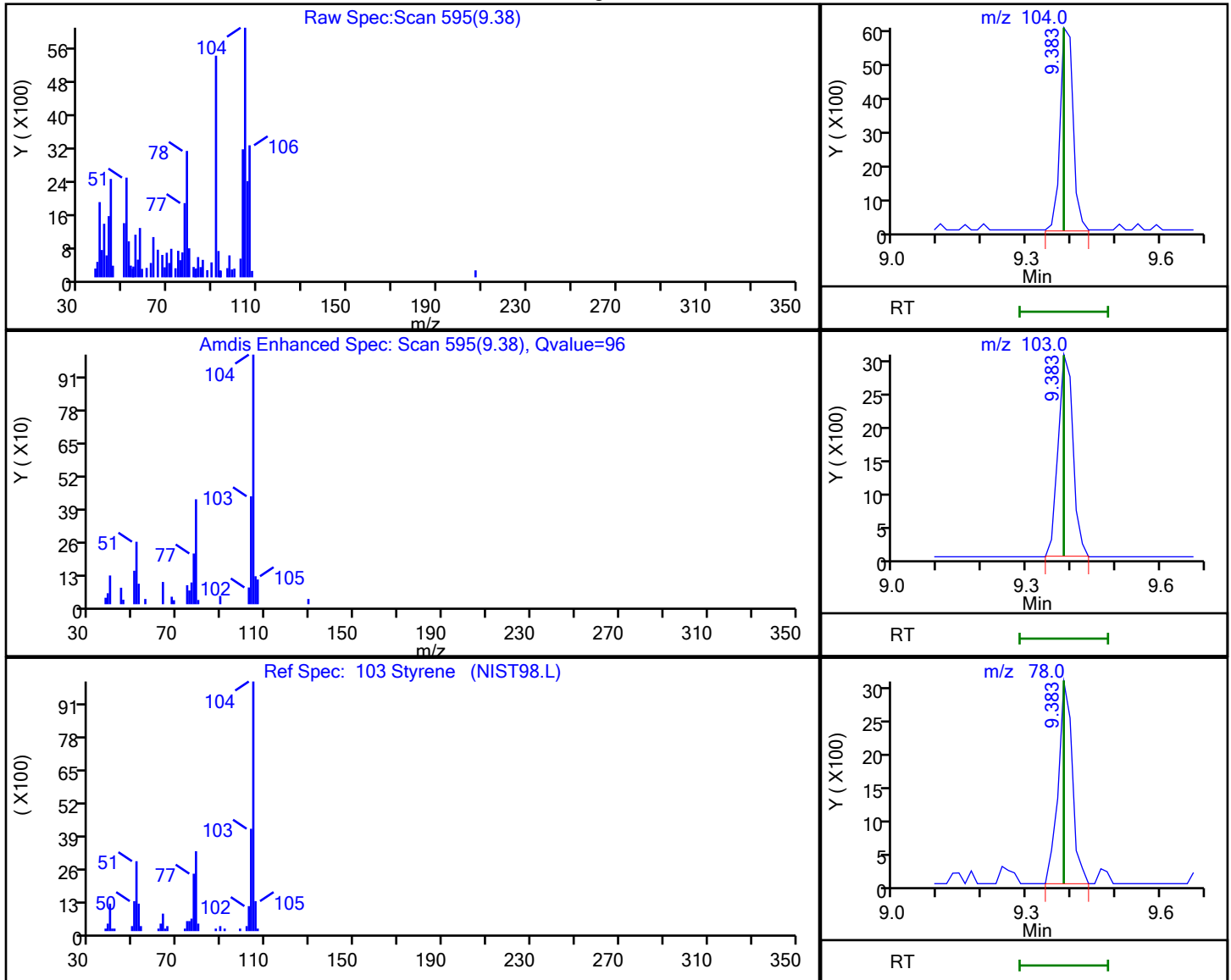
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

103 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
9.38	104.00	12257	0.625001
9.38	103.00	7229	
9.38	78.00	6771	

Reviewer: Q2ZS, 01-Aug-2023 14:03:57 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

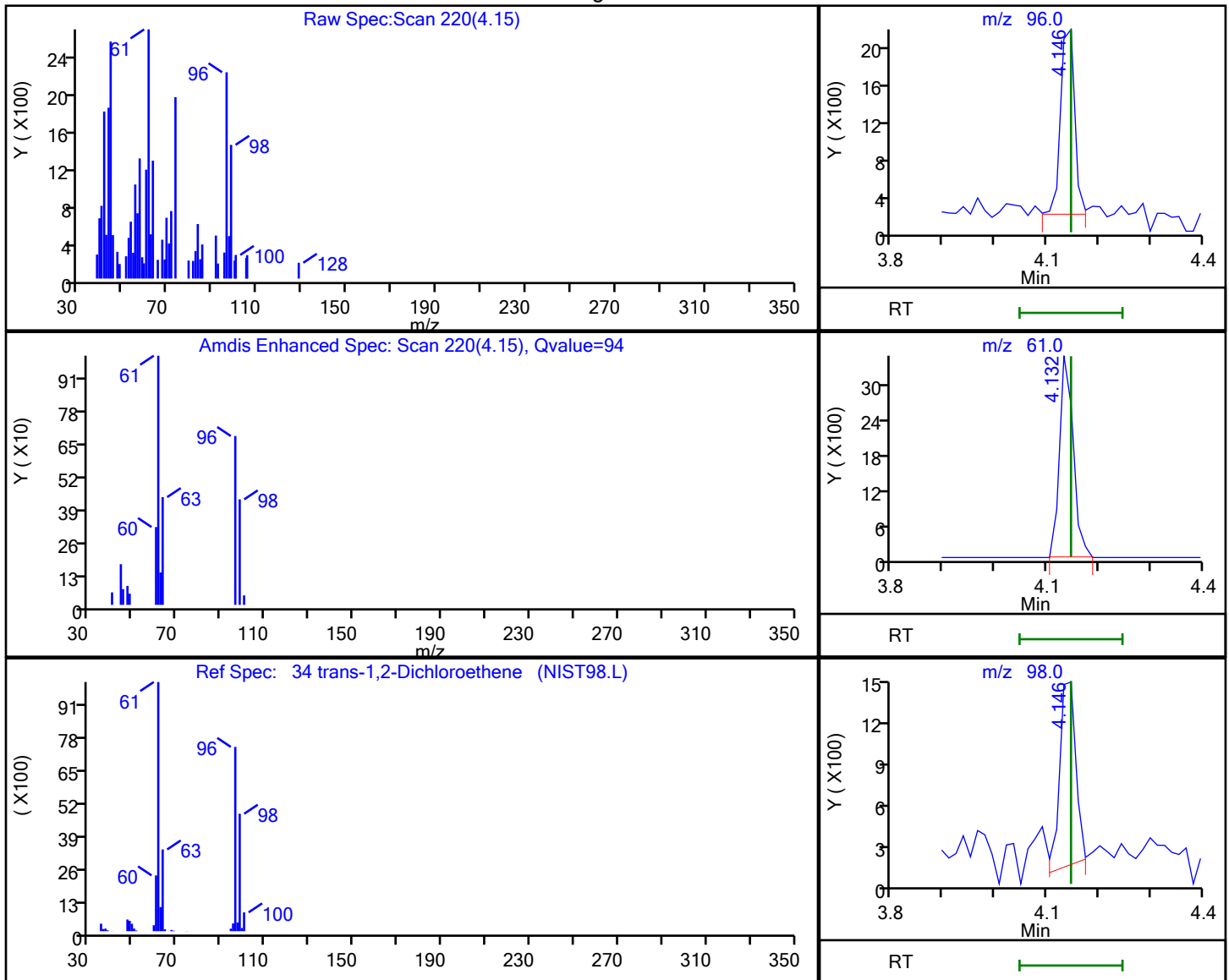
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

34 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
4.15	96.00	3768	0.299073
4.13	61.00	6467	
4.15	98.00	2821	

Reviewer: Q2ZS, 01-Aug-2023 14:00:27 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

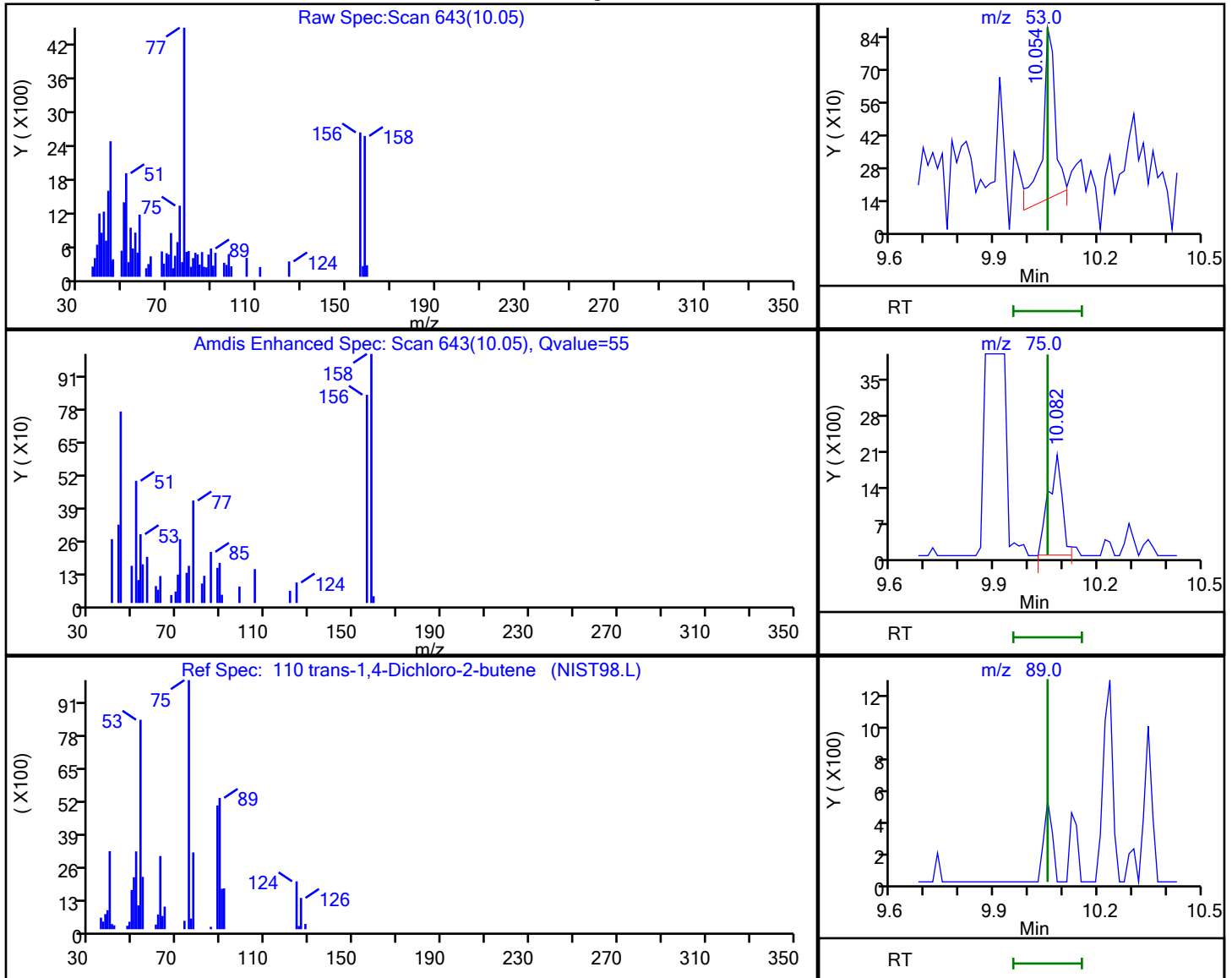
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

110 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
10.05	53.00	1883	0.501677
10.08	75.00	5480	
10.05	89.00	0	

Reviewer: Q2ZS, 01-Aug-2023 14:04:14 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

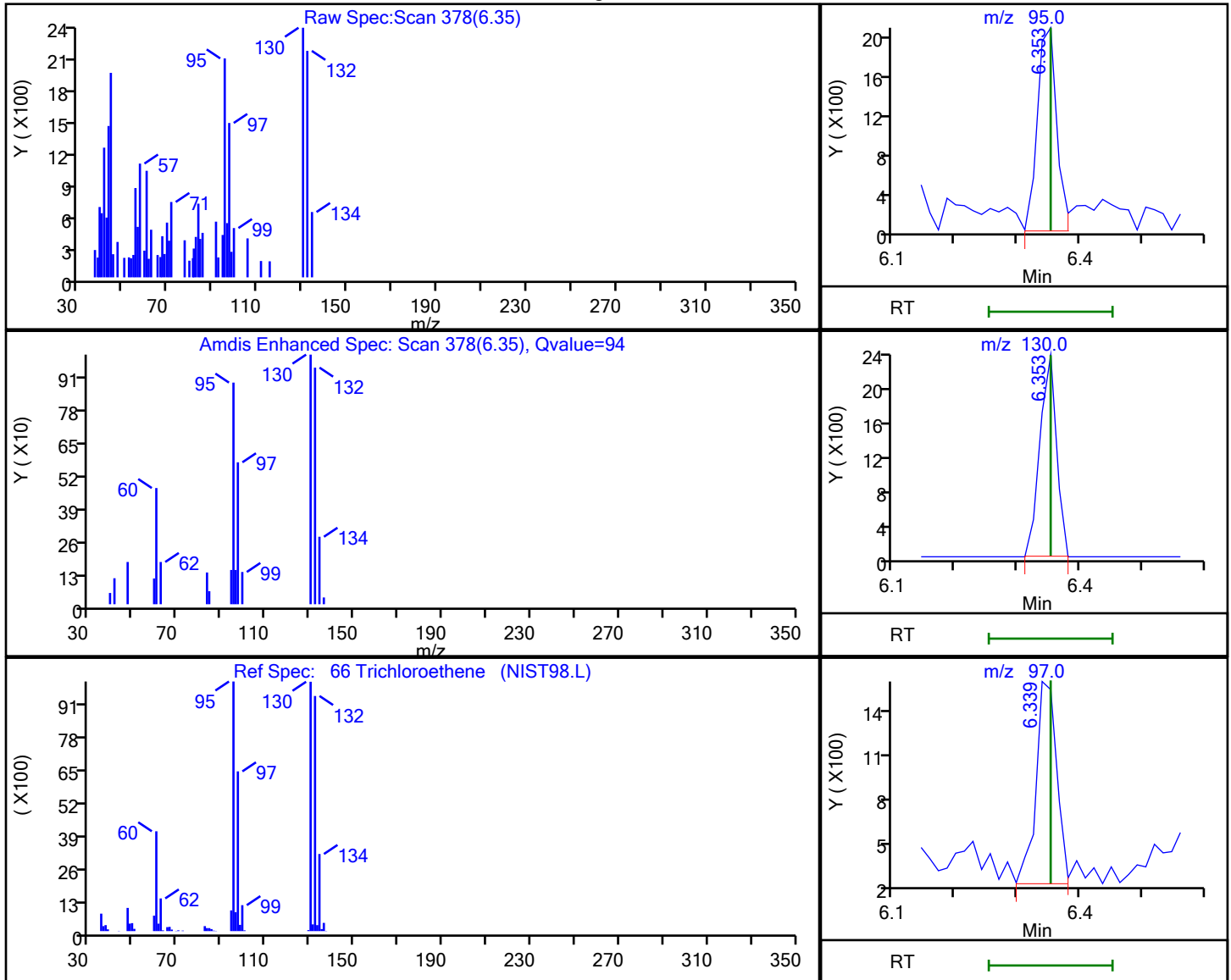
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

66 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
6.35	95.00	4539	0.348720
6.35	130.00	4461	
6.34	97.00	3013	

Reviewer: Q2ZS, 01-Aug-2023 14:02:59 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D

Injection Date: 01-Aug-2023 12:42:30

Instrument ID: VMS_MS1

Lims ID: ic

Client ID:

Operator ID: wickhamt

ALS Bottle#:

12

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

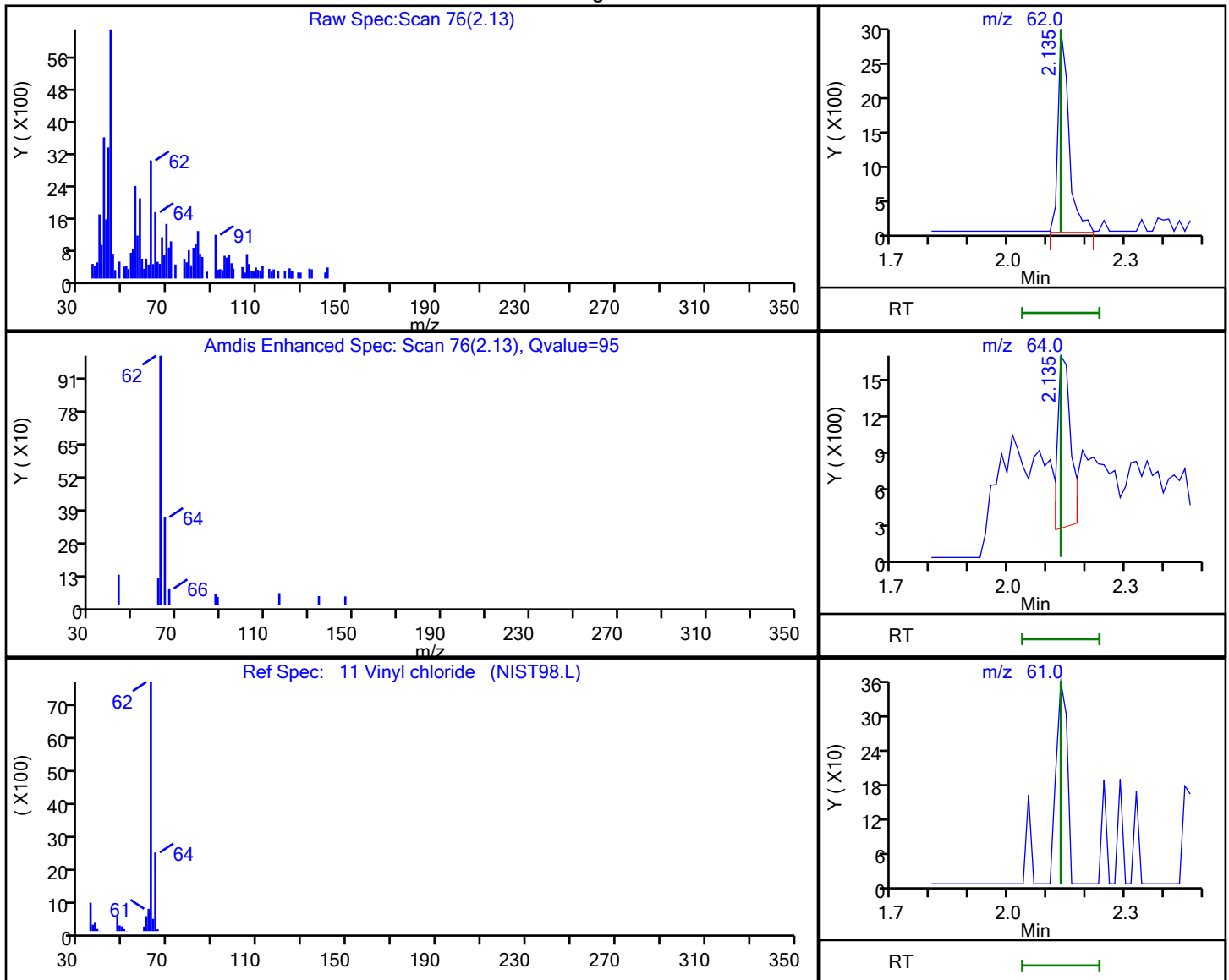
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

11 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
2.13	62.00	5709	0.772516
2.13	64.00	3456	
2.13	61.00	0	

Reviewer: Q2ZS, 01-Aug-2023 13:56:14 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Calibration

/ Dichlorodifluoromethane

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

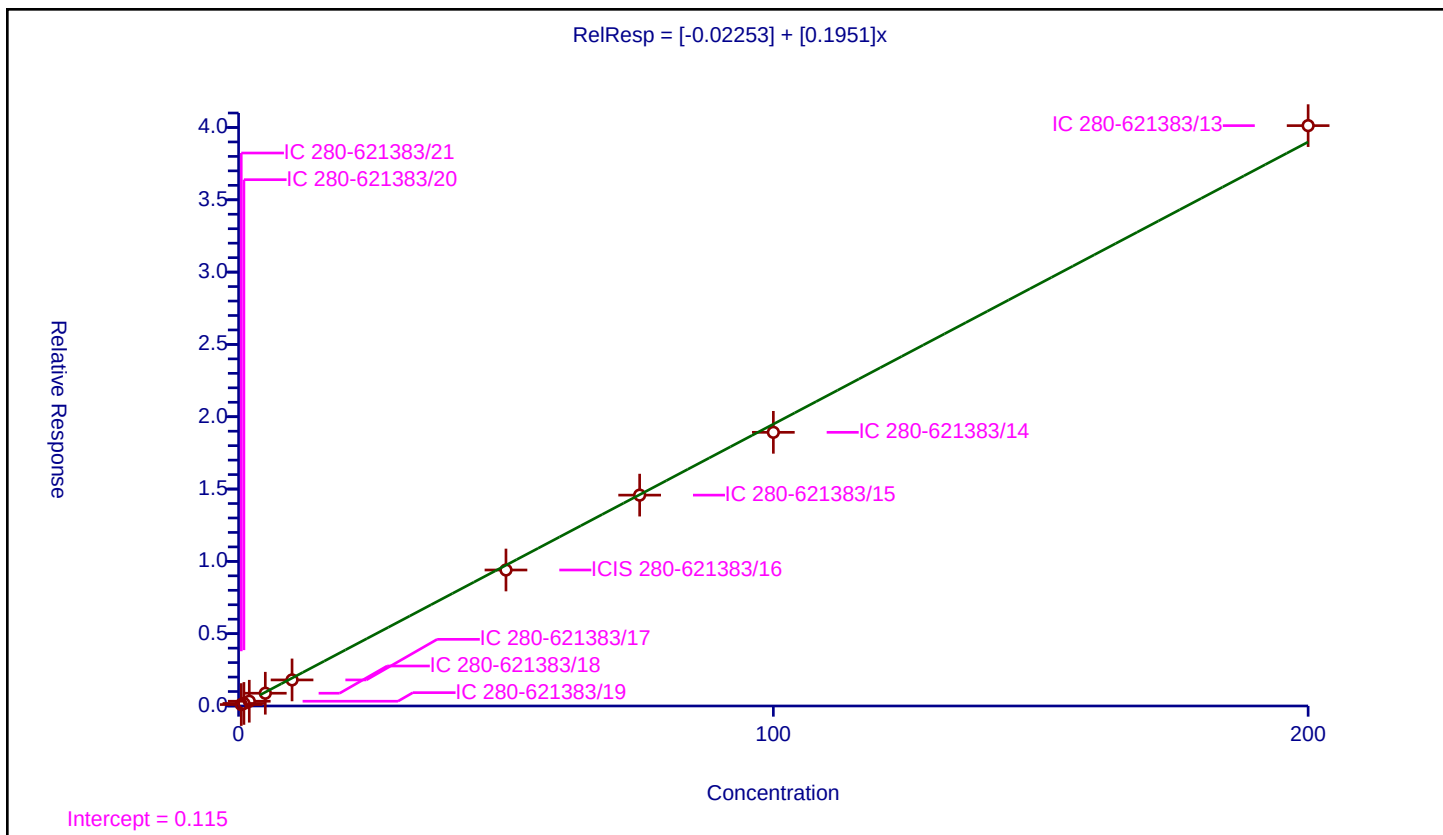
Curve Coefficients

Intercept: -0.02253
Slope: 0.1951

Error Coefficients

Standard Error: 586000
Relative Standard Error: 11.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.099502	50.0	1427607.0	0.199004	Y
2	IC 280-621383/20	1.0	0.176582	50.0	1421716.0	0.176582	Y
3	IC 280-621383/19	2.0	0.329376	50.0	1514225.0	0.164688	Y
4	IC 280-621383/18	5.0	0.881662	50.0	1505056.0	0.176332	Y
5	IC 280-621383/17	10.0	1.802662	50.0	1526132.0	0.180266	Y
6	ICIS 280-621383/16	50.0	9.403128	50.0	1619392.0	0.188063	Y
7	IC 280-621383/15	75.0	14.58044	50.0	1620318.0	0.194406	Y
8	IC 280-621383/14	100.0	18.923053	50.0	1615947.0	0.189231	Y
9	IC 280-621383/13	200.0	40.128621	50.0	1629600.0	0.200643	Y



Calibration

/ Chloromethane

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

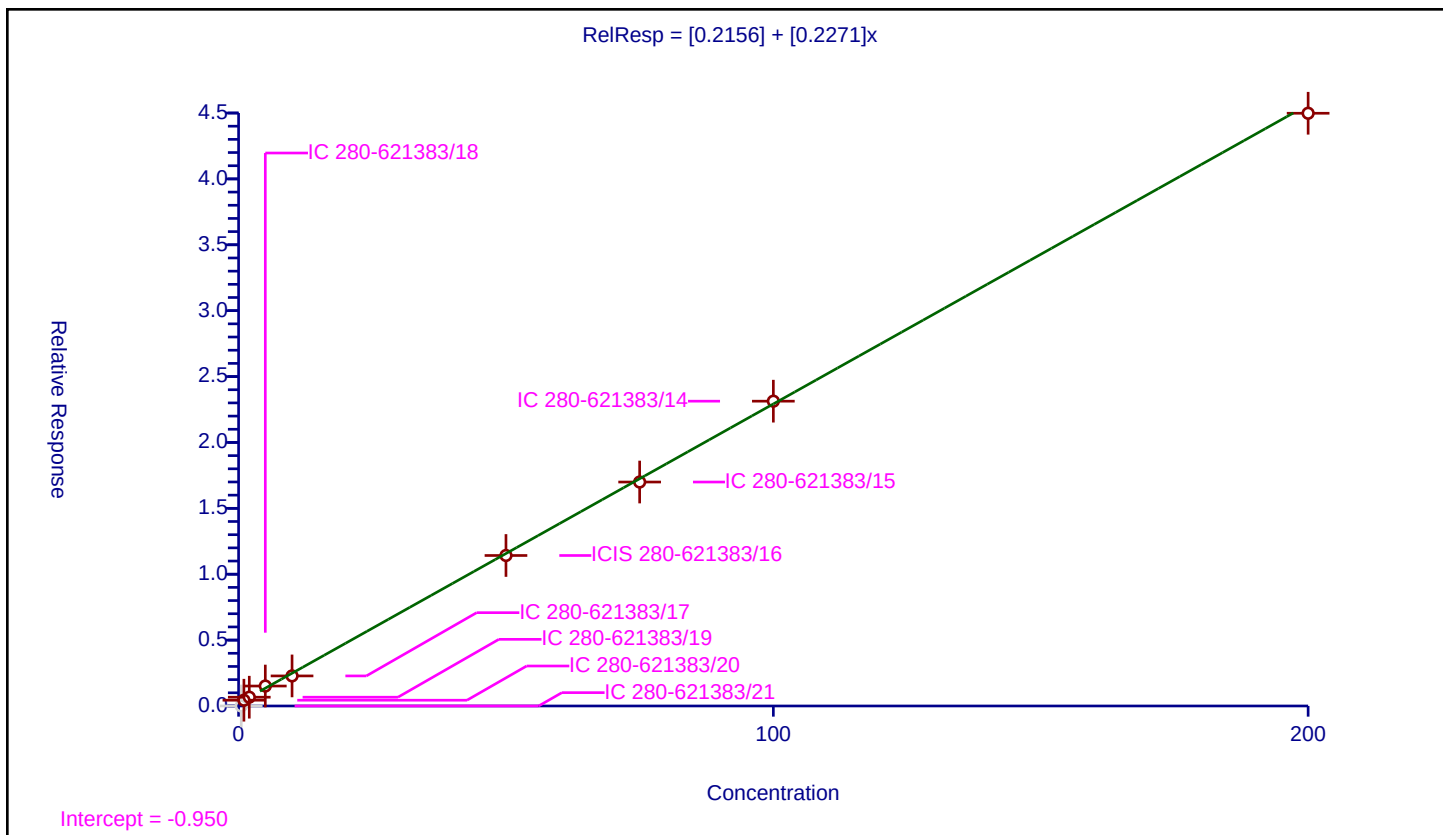
Curve Coefficients

Intercept: 0.2156
Slope: 0.2271

Error Coefficients

Standard Error: 725000
Relative Standard Error: 7.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.438836	50.0	1421716.0	0.438836	Y
3	IC 280-621383/19	2.0	0.66747	50.0	1514225.0	0.333735	Y
4	IC 280-621383/18	5.0	1.515193	50.0	1505056.0	0.303039	Y
5	IC 280-621383/17	10.0	2.28188	50.0	1526132.0	0.228188	Y
6	ICIS 280-621383/16	50.0	11.421571	50.0	1619392.0	0.228431	Y
7	IC 280-621383/15	75.0	16.996571	50.0	1620318.0	0.226621	Y
8	IC 280-621383/14	100.0	23.131266	50.0	1615947.0	0.231313	Y
9	IC 280-621383/13	200.0	44.98248	50.0	1629600.0	0.224912	Y



Calibration

/ Vinyl chloride

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

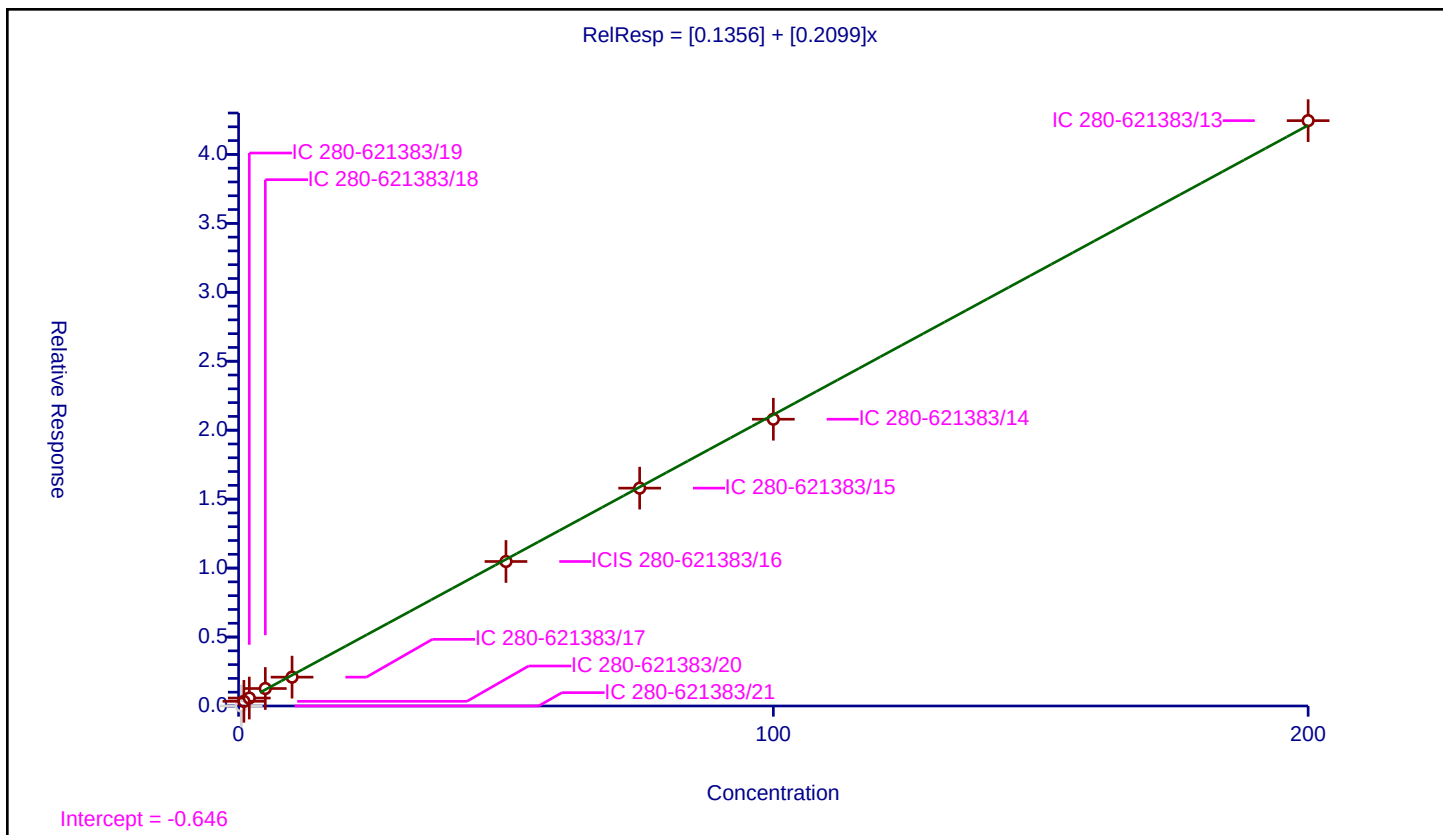
Curve Coefficients

Intercept: 0.1356
 Slope: 0.2099

Error Coefficients

Standard Error: 677000
 Relative Standard Error: 5.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.338535	50.0	1421716.0	0.338535	Y
3	IC 280-621383/19	2.0	0.576037	50.0	1514225.0	0.288019	Y
4	IC 280-621383/18	5.0	1.26776	50.0	1505056.0	0.253552	Y
5	IC 280-621383/17	10.0	2.090874	50.0	1526132.0	0.209087	Y
6	ICIS 280-621383/16	50.0	10.478099	50.0	1619392.0	0.209562	Y
7	IC 280-621383/15	75.0	15.797084	50.0	1620318.0	0.210628	Y
8	IC 280-621383/14	100.0	20.795113	50.0	1615947.0	0.207951	Y
9	IC 280-621383/13	200.0	42.44649	50.0	1629600.0	0.212232	Y



Calibration

/ Bromomethane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

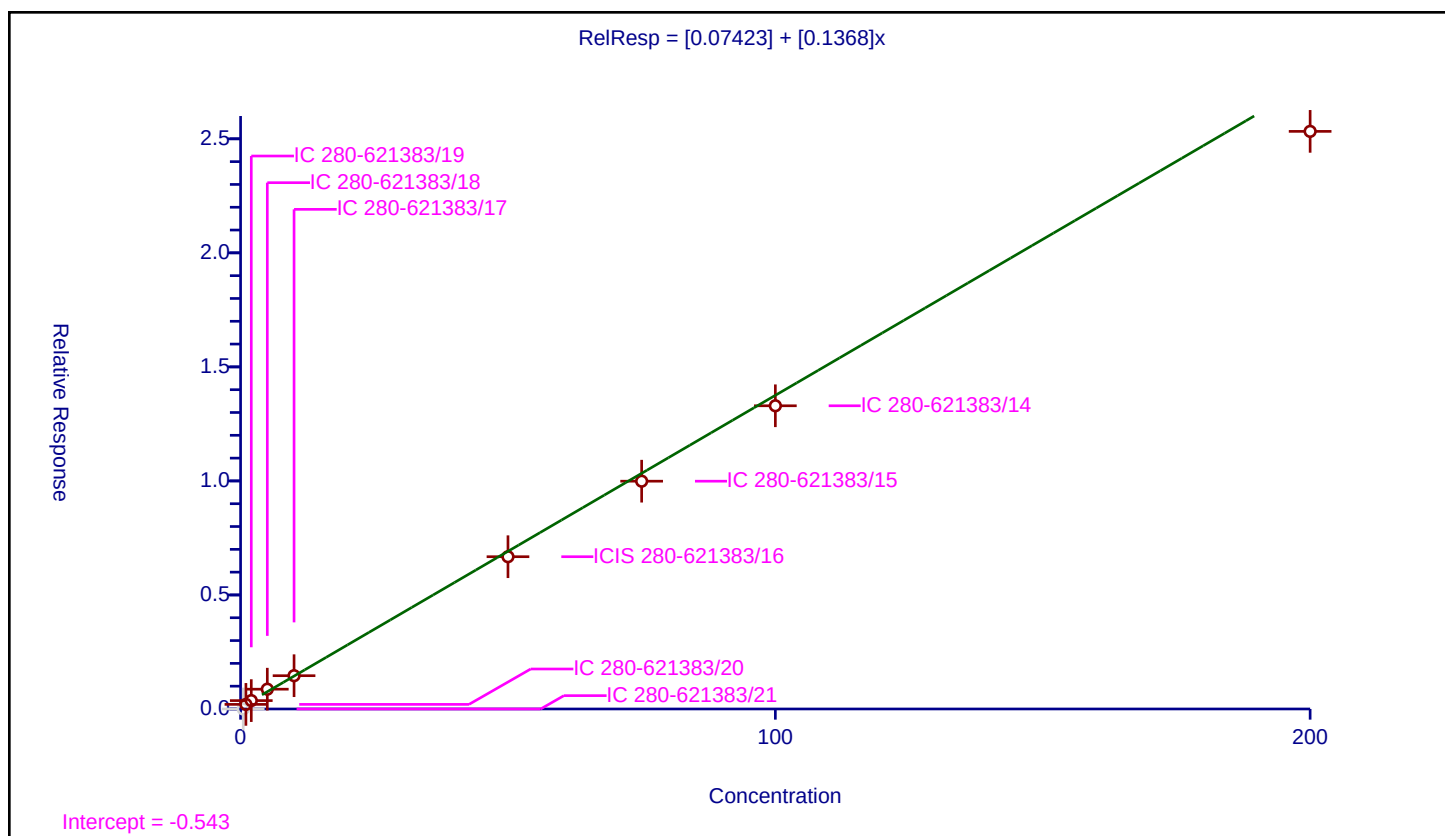
Curve Coefficients

Intercept: 0.07423
 Slope: 0.1368

Error Coefficients

Standard Error: 412000
 Relative Standard Error: 8.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.201728	50.0	1421716.0	0.201728	Y
3	IC 280-621383/19	2.0	0.367713	50.0	1514225.0	0.183856	Y
4	IC 280-621383/18	5.0	0.867808	50.0	1505056.0	0.173562	Y
5	IC 280-621383/17	10.0	1.460359	50.0	1526132.0	0.146036	Y
6	ICIS 280-621383/16	50.0	6.677506	50.0	1619392.0	0.13355	Y
7	IC 280-621383/15	75.0	9.988255	50.0	1620318.0	0.133177	Y
8	IC 280-621383/14	100.0	13.294774	50.0	1615947.0	0.132948	Y
9	IC 280-621383/13	200.0	25.326859	50.0	1629600.0	0.126634	Y



Calibration

/ Chloroethane

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

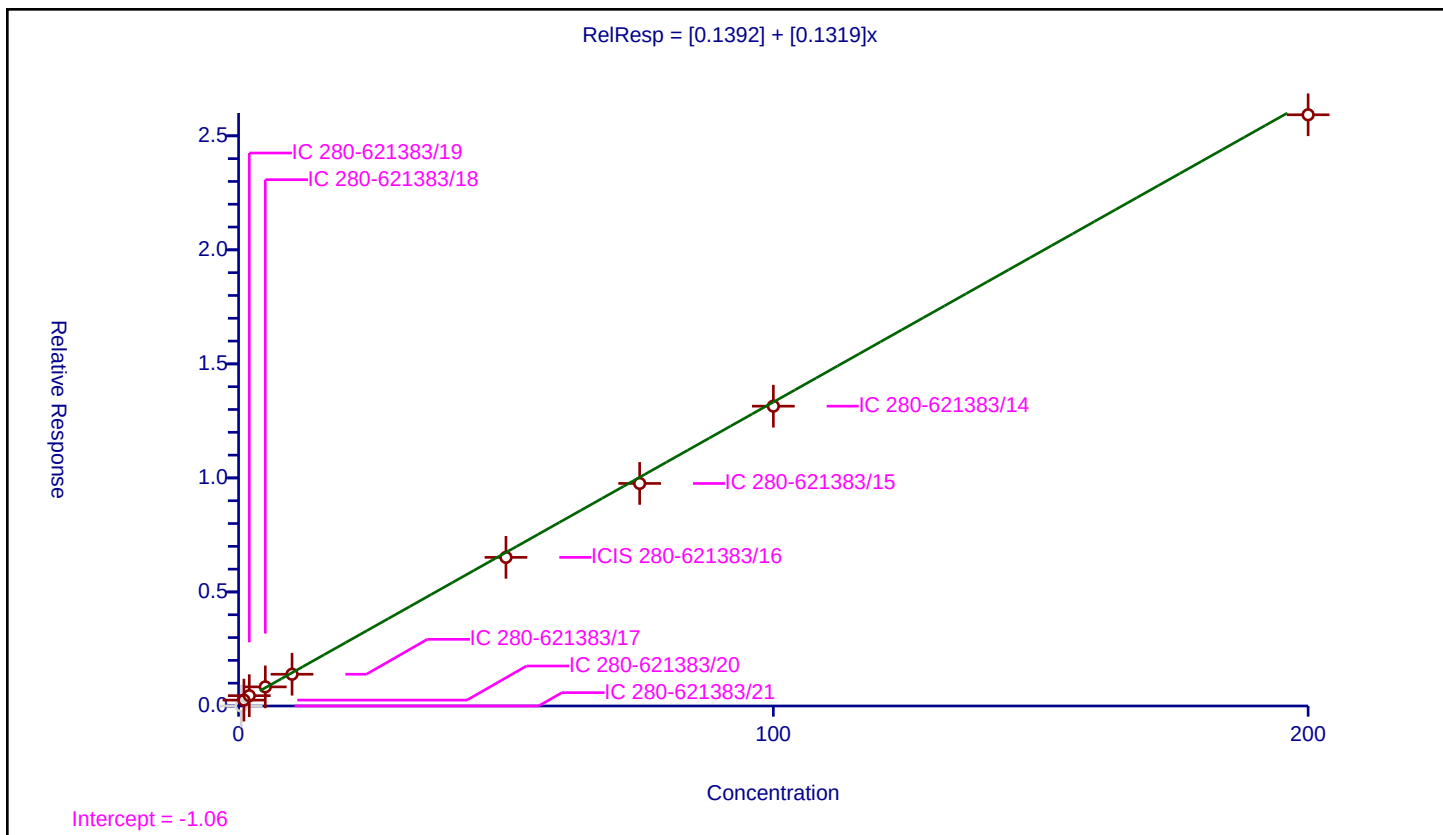
Curve Coefficients

Intercept: 0.1392
Slope: 0.1319

Error Coefficients

Standard Error: 417000
Relative Standard Error: 9.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.258209	50.0	1421716.0	0.258209	Y
3	IC 280-621383/19	2.0	0.451353	50.0	1514225.0	0.225677	Y
4	IC 280-621383/18	5.0	0.838208	50.0	1505056.0	0.167642	Y
5	IC 280-621383/17	10.0	1.391656	50.0	1526132.0	0.139166	Y
6	ICIS 280-621383/16	50.0	6.516365	50.0	1619392.0	0.130327	Y
7	IC 280-621383/15	75.0	9.758054	50.0	1620318.0	0.130107	Y
8	IC 280-621383/14	100.0	13.146192	50.0	1615947.0	0.131462	Y
9	IC 280-621383/13	200.0	25.922251	50.0	1629600.0	0.129611	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

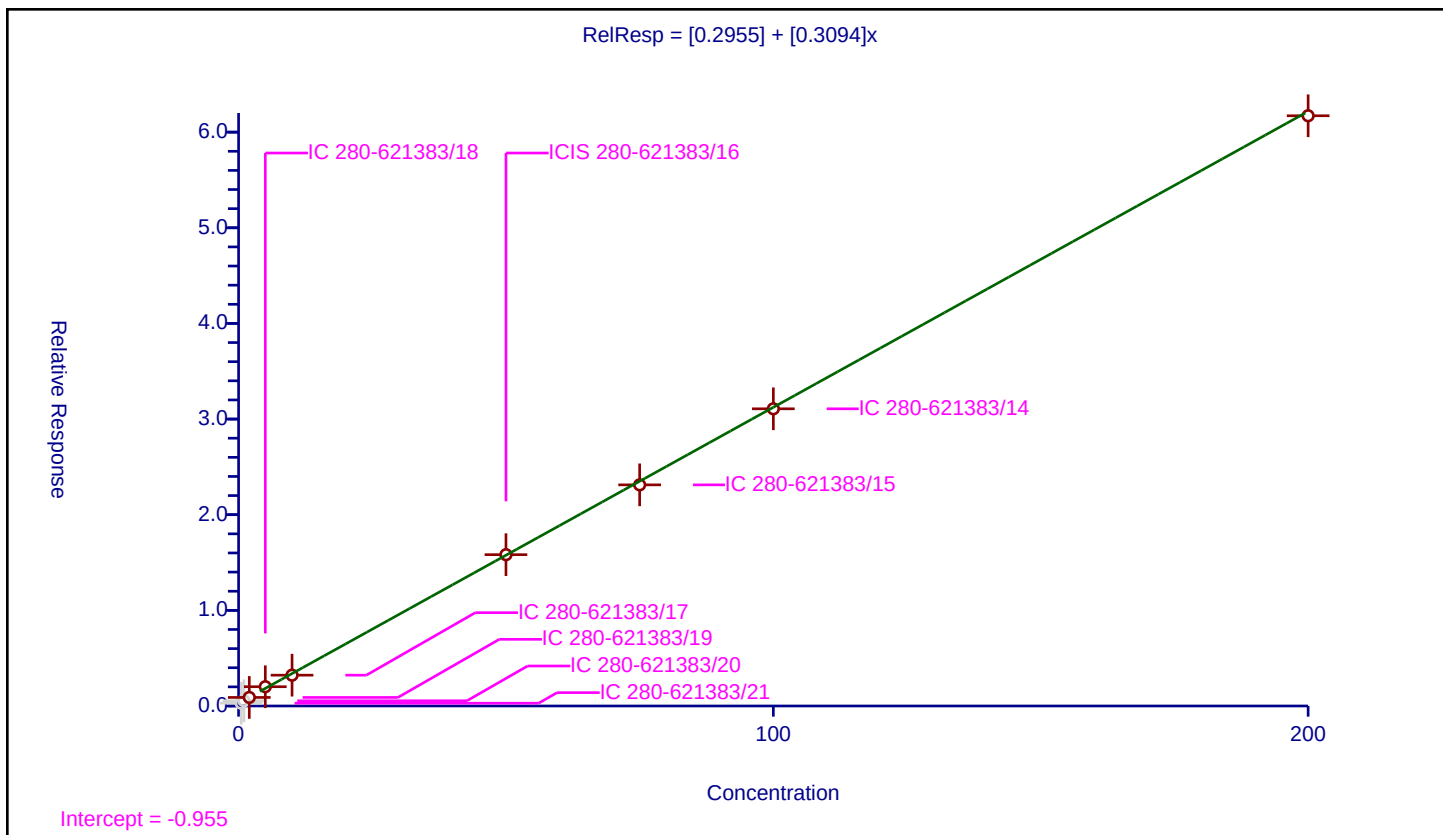
Curve Coefficients

Intercept: 0.2955
 Slope: 0.3094

Error Coefficients

Standard Error: 1090000
 Relative Standard Error: 5.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.291187	50.0	1427607.0	0.582373	N
2	IC 280-621383/20	1.0	0.545503	50.0	1421716.0	0.545503	N
3	IC 280-621383/19	2.0	0.893394	50.0	1514225.0	0.446697	Y
4	IC 280-621383/18	5.0	2.01544	50.0	1505056.0	0.403088	Y
5	IC 280-621383/17	10.0	3.223116	50.0	1526132.0	0.322312	Y
6	ICIS 280-621383/16	50.0	15.82103	50.0	1619392.0	0.316421	Y
7	IC 280-621383/15	75.0	23.122282	50.0	1620318.0	0.308297	Y
8	IC 280-621383/14	100.0	31.074472	50.0	1615947.0	0.310745	Y
9	IC 280-621383/13	200.0	61.713181	50.0	1629600.0	0.308566	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

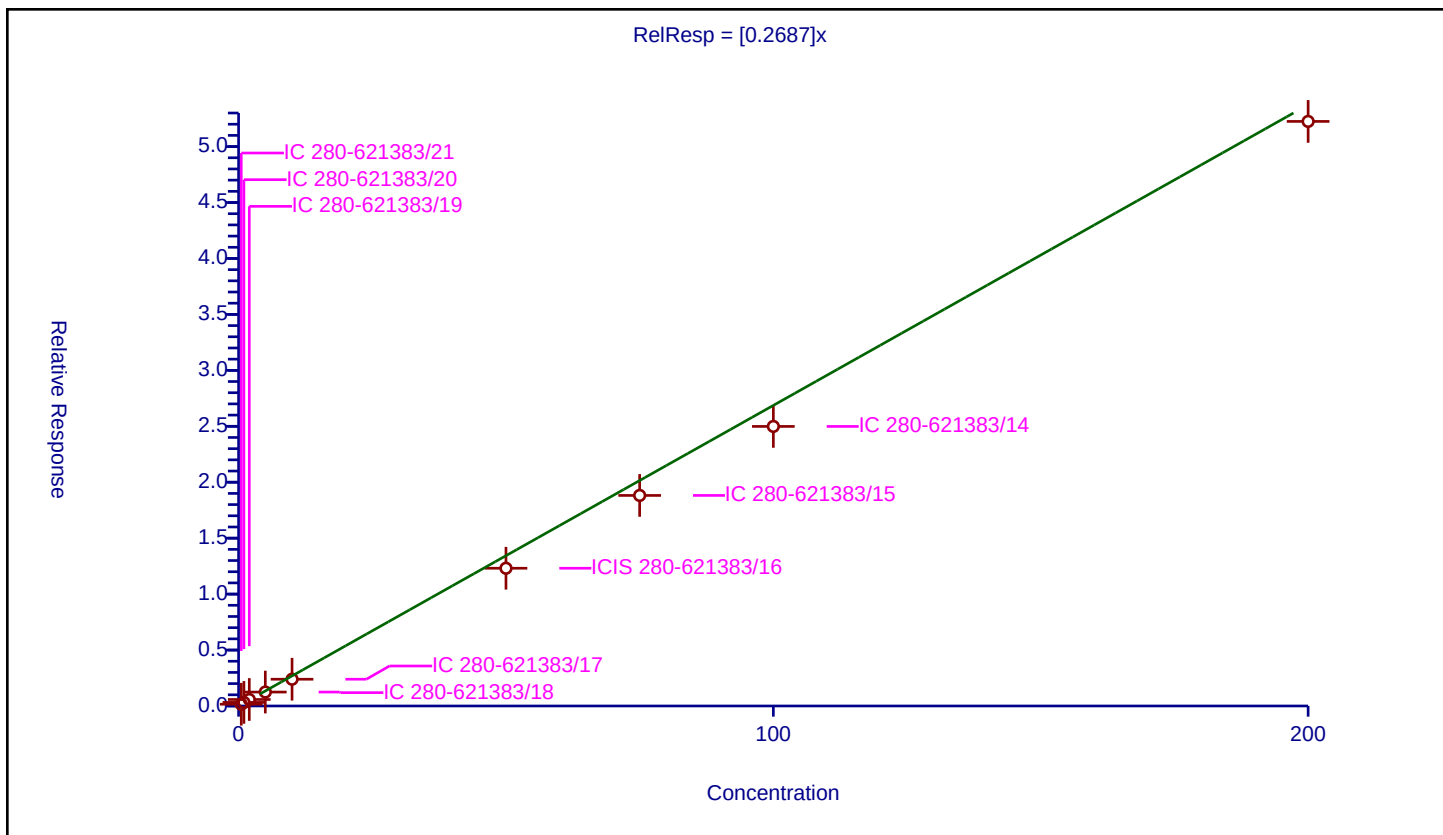
Curve Coefficients

Intercept: 0
 Slope: 0.2687

Error Coefficients

Standard Error: 715000
 Relative Standard Error: 11.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.15554	50.0	1427607.0	0.31108	Y
2	IC 280-621383/20	1.0	0.320176	50.0	1421716.0	0.320176	Y
3	IC 280-621383/19	2.0	0.581221	50.0	1514225.0	0.290611	Y
4	IC 280-621383/18	5.0	1.244439	50.0	1505056.0	0.248888	Y
5	IC 280-621383/17	10.0	2.391045	50.0	1526132.0	0.239104	Y
6	ICIS 280-621383/16	50.0	12.311287	50.0	1619392.0	0.246226	Y
7	IC 280-621383/15	75.0	18.81751	50.0	1620318.0	0.2509	Y
8	IC 280-621383/14	100.0	24.987422	50.0	1615947.0	0.249874	Y
9	IC 280-621383/13	200.0	52.249969	50.0	1629600.0	0.26125	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

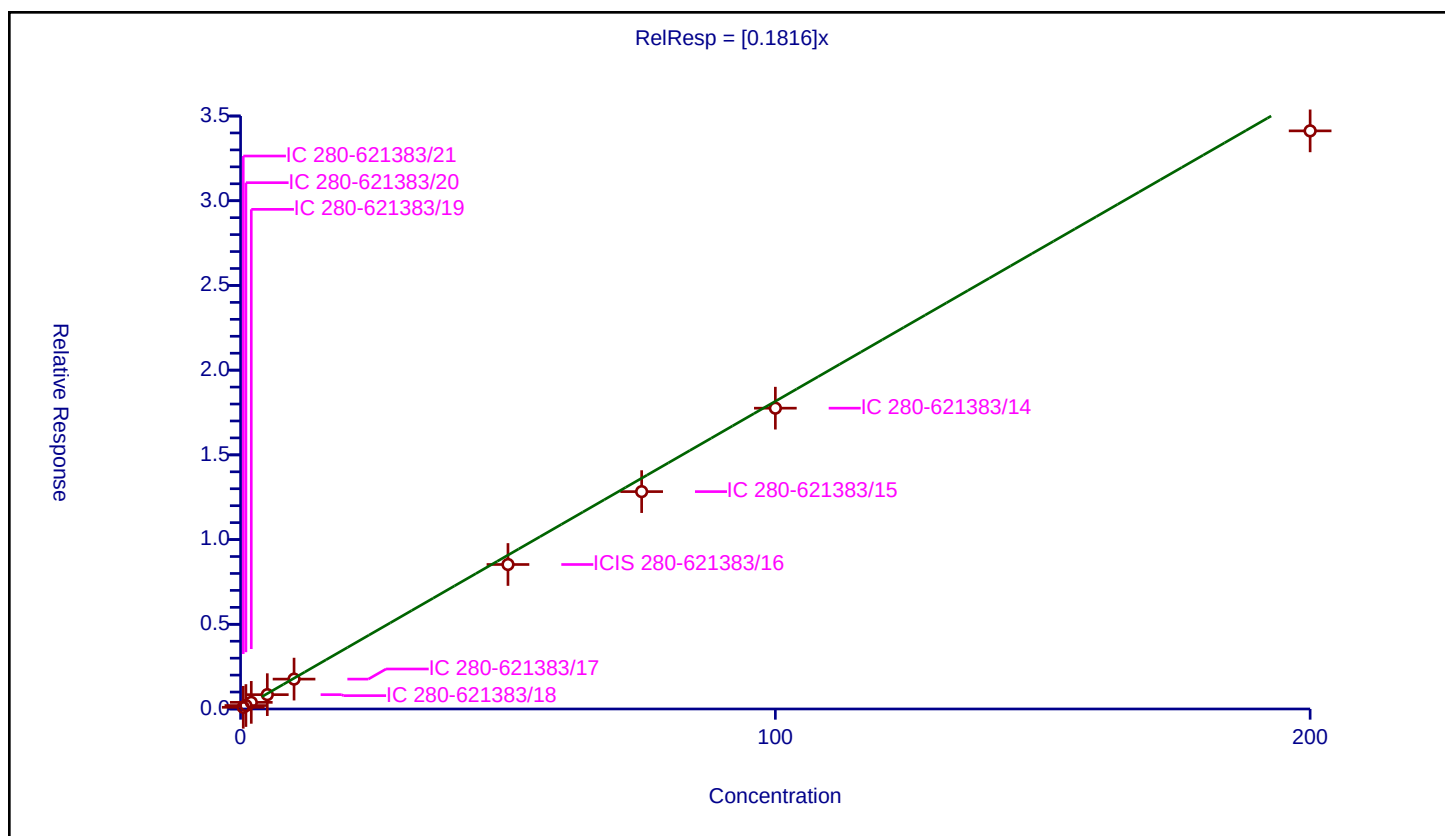
Curve Coefficients

Intercept: 0
Slope: 0.1816

Error Coefficients

Standard Error: 477000
Relative Standard Error: 7.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.100028	50.0	1427607.0	0.200055	Y
2	IC 280-621383/20	1.0	0.203698	50.0	1421716.0	0.203698	Y
3	IC 280-621383/19	2.0	0.390761	50.0	1514225.0	0.19538	Y
4	IC 280-621383/18	5.0	0.846347	50.0	1505056.0	0.169269	Y
5	IC 280-621383/17	10.0	1.763281	50.0	1526132.0	0.176328	Y
6	ICIS 280-621383/16	50.0	8.528633	50.0	1619392.0	0.170573	Y
7	IC 280-621383/15	75.0	12.830414	50.0	1620318.0	0.171072	Y
8	IC 280-621383/14	100.0	17.754605	50.0	1615947.0	0.177546	Y
9	IC 280-621383/13	200.0	34.123497	50.0	1629600.0	0.170617	Y



Calibration

/ Acrolein

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

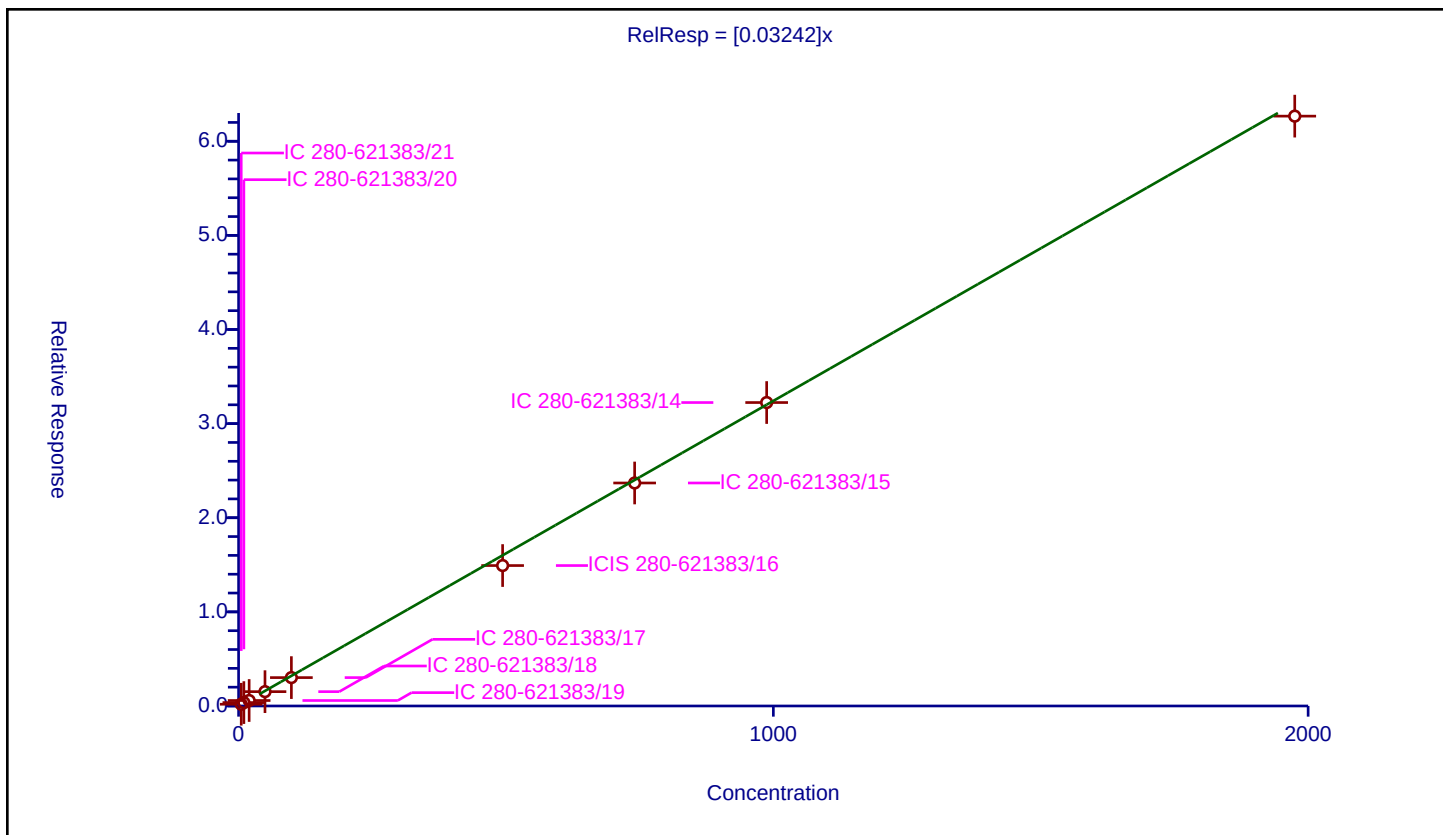
Curve Coefficients

Intercept: 0
 Slope: 0.03242

Error Coefficients

Standard Error: 873000
 Relative Standard Error: 8.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	4.9375	0.186746	50.0	1427607.0	0.037822	Y
2	IC 280-621383/20	9.875	0.360128	50.0	1421716.0	0.036469	Y
3	IC 280-621383/19	19.75	0.58241	50.0	1514225.0	0.029489	Y
4	IC 280-621383/18	49.375	1.522269	50.0	1505056.0	0.030831	Y
5	IC 280-621383/17	98.75	3.016417	50.0	1526132.0	0.030546	Y
6	ICIS 280-621383/16	493.75	14.920415	50.0	1619392.0	0.030219	Y
7	IC 280-621383/15	740.625	23.693003	50.0	1620318.0	0.031991	Y
8	IC 280-621383/14	987.5	32.240723	50.0	1615947.0	0.032649	Y
9	IC 280-621383/13	1975.0	62.66817	50.0	1629600.0	0.031731	Y



Calibration

/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

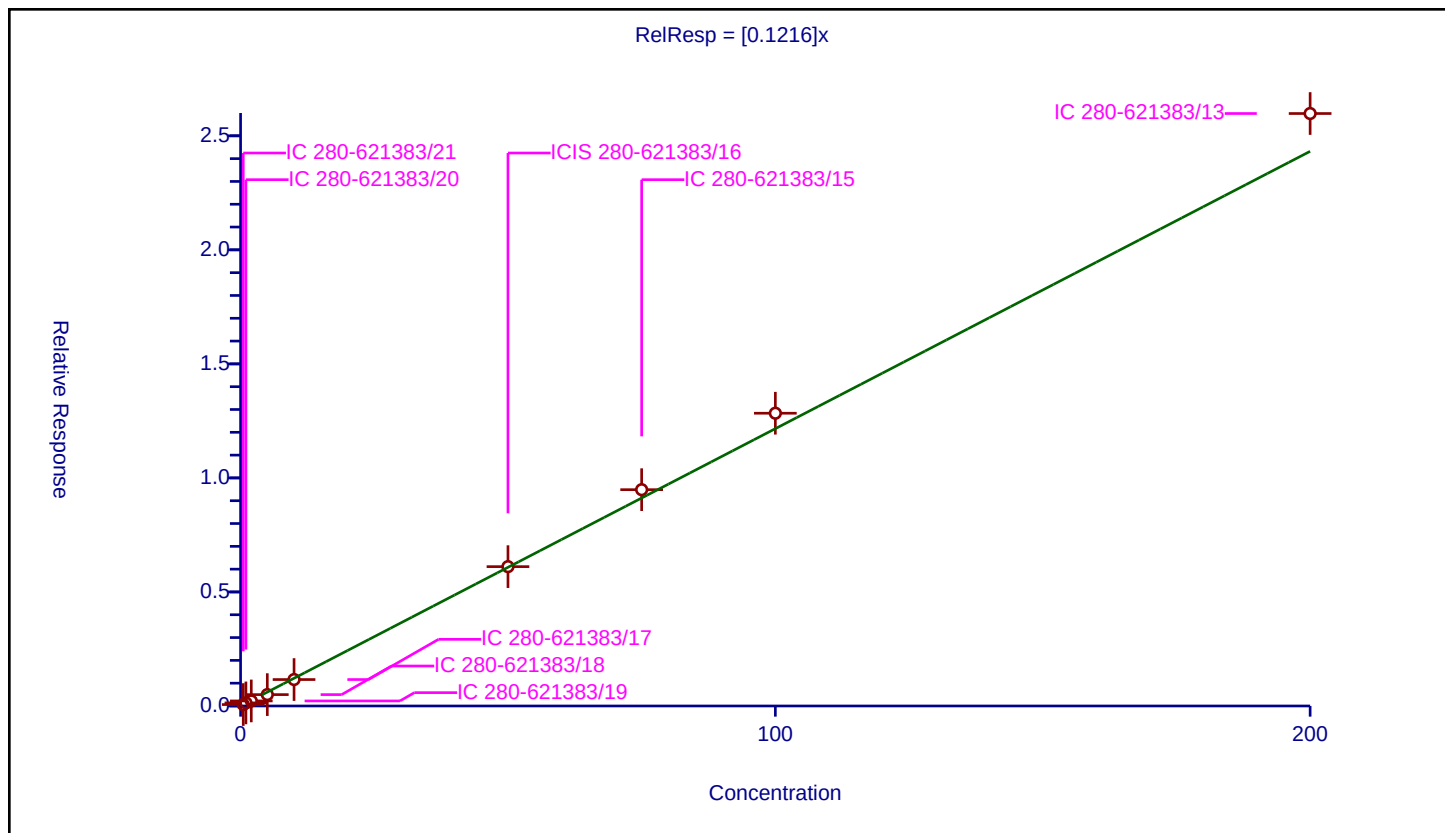
Curve Coefficients

Intercept: 0
 Slope: 0.1216

Error Coefficients

Standard Error: 358000
 Relative Standard Error: 9.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.063113	50.0	1427607.0	0.126225	Y
2	IC 280-621383/20	1.0	0.134556	50.0	1421716.0	0.134556	Y
3	IC 280-621383/19	2.0	0.221995	50.0	1514225.0	0.110997	Y
4	IC 280-621383/18	5.0	0.498852	50.0	1505056.0	0.09977	Y
5	IC 280-621383/17	10.0	1.159434	50.0	1526132.0	0.115943	Y
6	ICIS 280-621383/16	50.0	6.109762	50.0	1619392.0	0.122195	Y
7	IC 280-621383/15	75.0	9.484774	50.0	1620318.0	0.126464	Y
8	IC 280-621383/14	100.0	12.837024	50.0	1615947.0	0.12837	Y
9	IC 280-621383/13	200.0	25.977571	50.0	1629600.0	0.129888	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

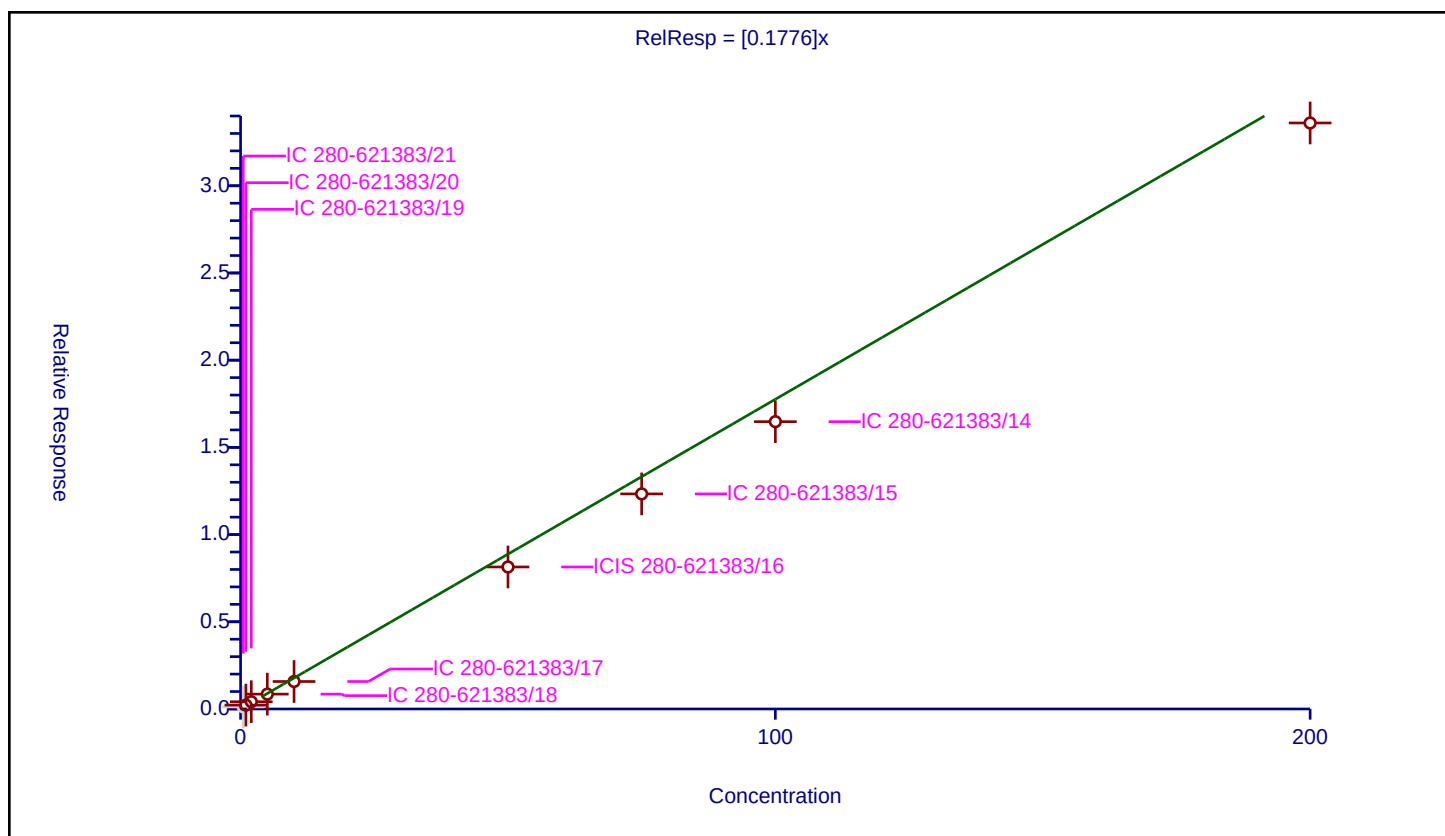
Curve Coefficients

Intercept: 0
 Slope: 0.1776

Error Coefficients

Standard Error: 495000
 Relative Standard Error: 13.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.120306	50.0	1427607.0	0.240612	N
2	IC 280-621383/20	1.0	0.224306	50.0	1421716.0	0.224306	Y
3	IC 280-621383/19	2.0	0.416186	50.0	1514225.0	0.208093	Y
4	IC 280-621383/18	5.0	0.853058	50.0	1505056.0	0.170612	Y
5	IC 280-621383/17	10.0	1.575879	50.0	1526132.0	0.157588	Y
6	ICIS 280-621383/16	50.0	8.143519	50.0	1619392.0	0.16287	Y
7	IC 280-621383/15	75.0	12.33261	50.0	1620318.0	0.164435	Y
8	IC 280-621383/14	100.0	16.474055	50.0	1615947.0	0.164741	Y
9	IC 280-621383/13	200.0	33.600792	50.0	1629600.0	0.168004	Y



Calibration

/ Acetone

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

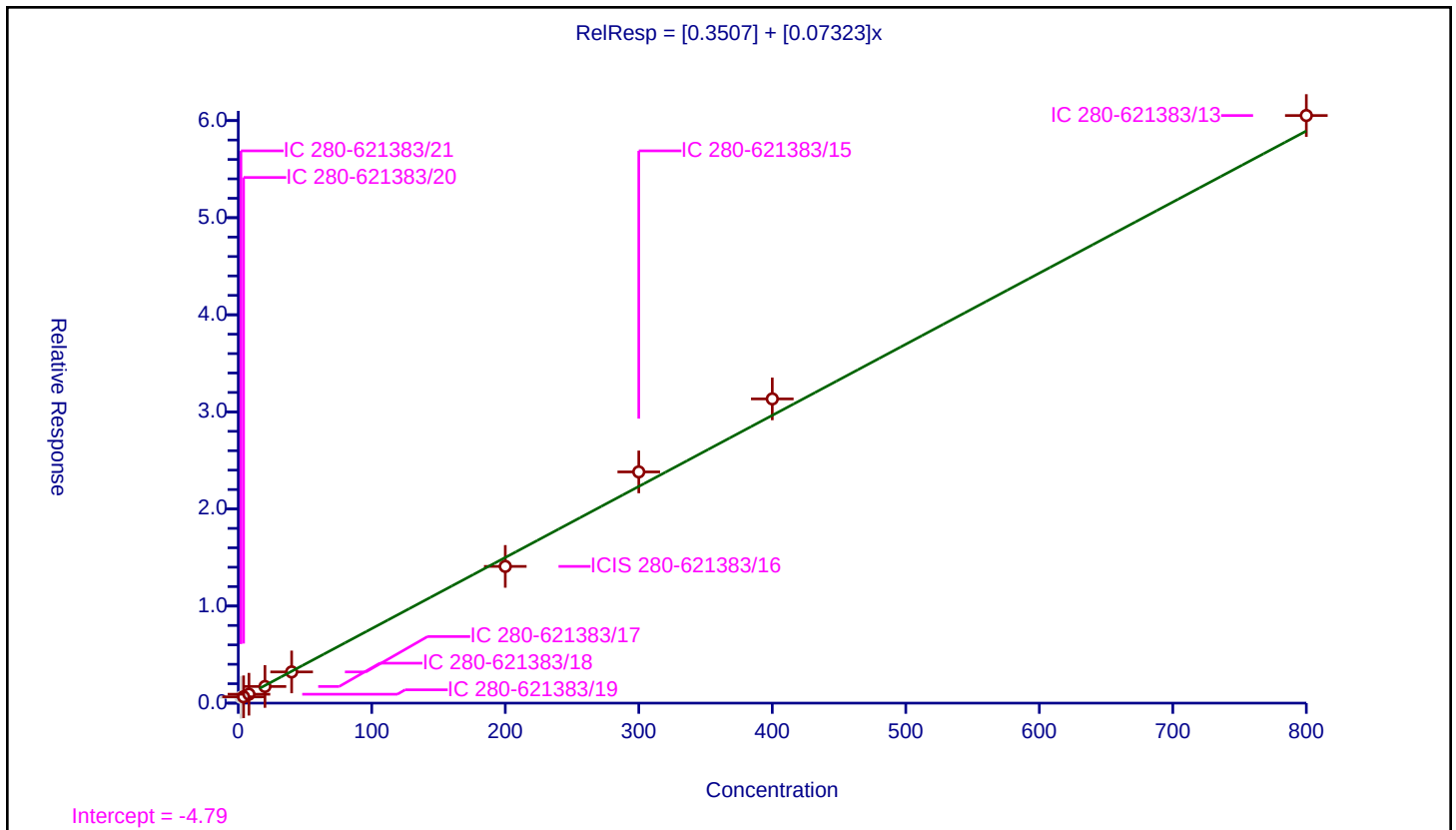
Curve Coefficients

Intercept: 0.3507
Slope: 0.07323

Error Coefficients

Standard Error: 978000
Relative Standard Error: 5.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	2.0	0.598974	50.0	1427607.0	0.299487	N
2	IC 280-621383/20	4.0	0.652662	50.0	1421716.0	0.163165	Y
3	IC 280-621383/19	8.0	0.918688	50.0	1514225.0	0.114836	Y
4	IC 280-621383/18	20.0	1.714521	50.0	1505056.0	0.085726	Y
5	IC 280-621383/17	40.0	3.21427	50.0	1526132.0	0.080357	Y
6	ICIS 280-621383/16	200.0	14.082693	50.0	1619392.0	0.070413	Y
7	IC 280-621383/15	300.0	23.816714	50.0	1620318.0	0.079389	Y
8	IC 280-621383/14	400.0	31.335588	50.0	1615947.0	0.078339	Y
9	IC 280-621383/13	800.0	60.522981	50.0	1629600.0	0.075654	Y



Calibration

/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

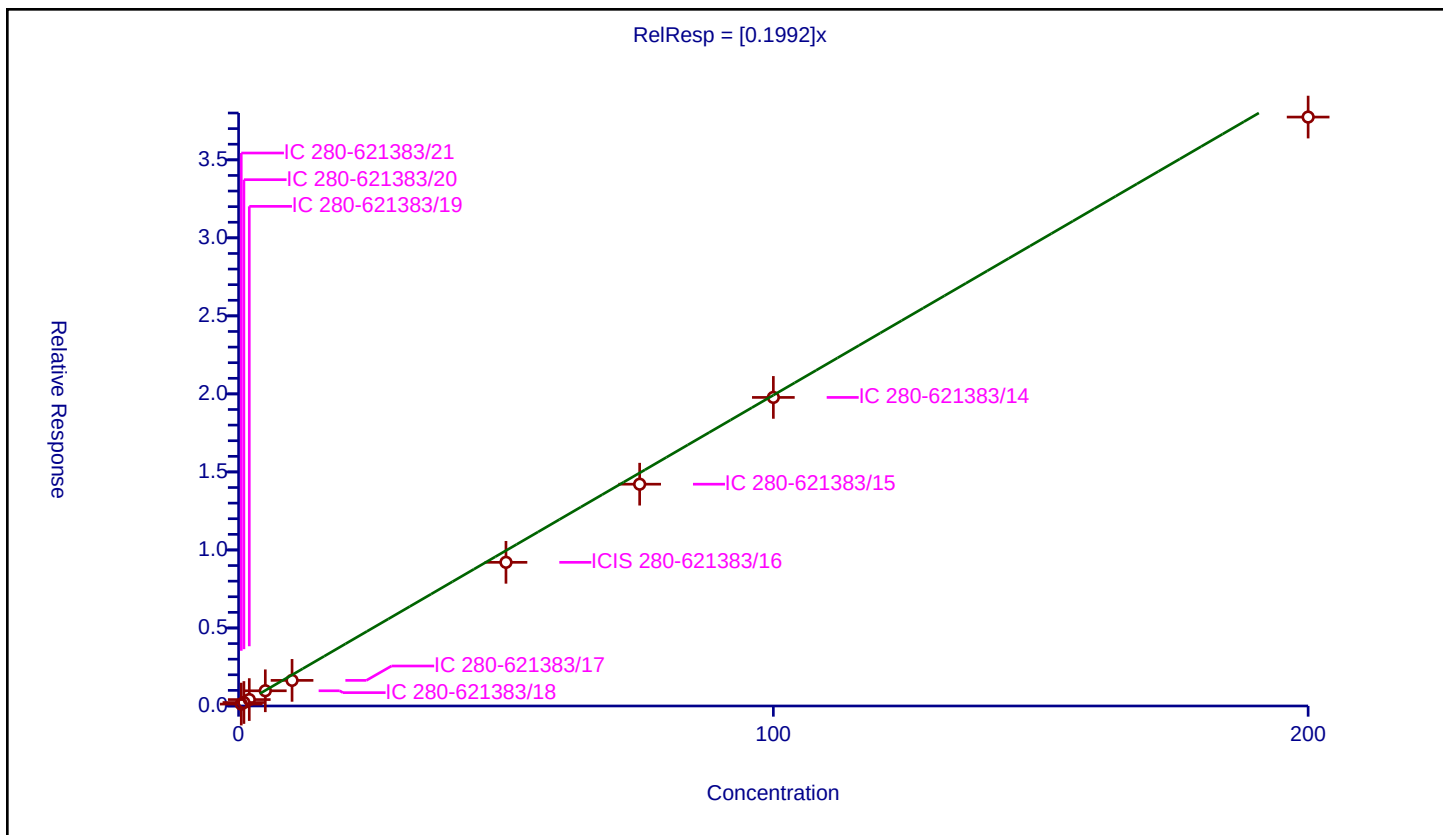
Curve Coefficients

Intercept: 0
Slope: 0.1992

Error Coefficients

Standard Error: 527000
Relative Standard Error: 11.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.122197	50.0	1427607.0	0.244395	Y
2	IC 280-621383/20	1.0	0.223146	50.0	1421716.0	0.223146	Y
3	IC 280-621383/19	2.0	0.411696	50.0	1514225.0	0.205848	Y
4	IC 280-621383/18	5.0	0.974648	50.0	1505056.0	0.19493	Y
5	IC 280-621383/17	10.0	1.641273	50.0	1526132.0	0.164127	Y
6	ICIS 280-621383/16	50.0	9.206881	50.0	1619392.0	0.184138	Y
7	IC 280-621383/15	75.0	14.214586	50.0	1620318.0	0.189528	Y
8	IC 280-621383/14	100.0	19.775123	50.0	1615947.0	0.197751	Y
9	IC 280-621383/13	200.0	37.740611	50.0	1629600.0	0.188703	Y



Calibration

/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

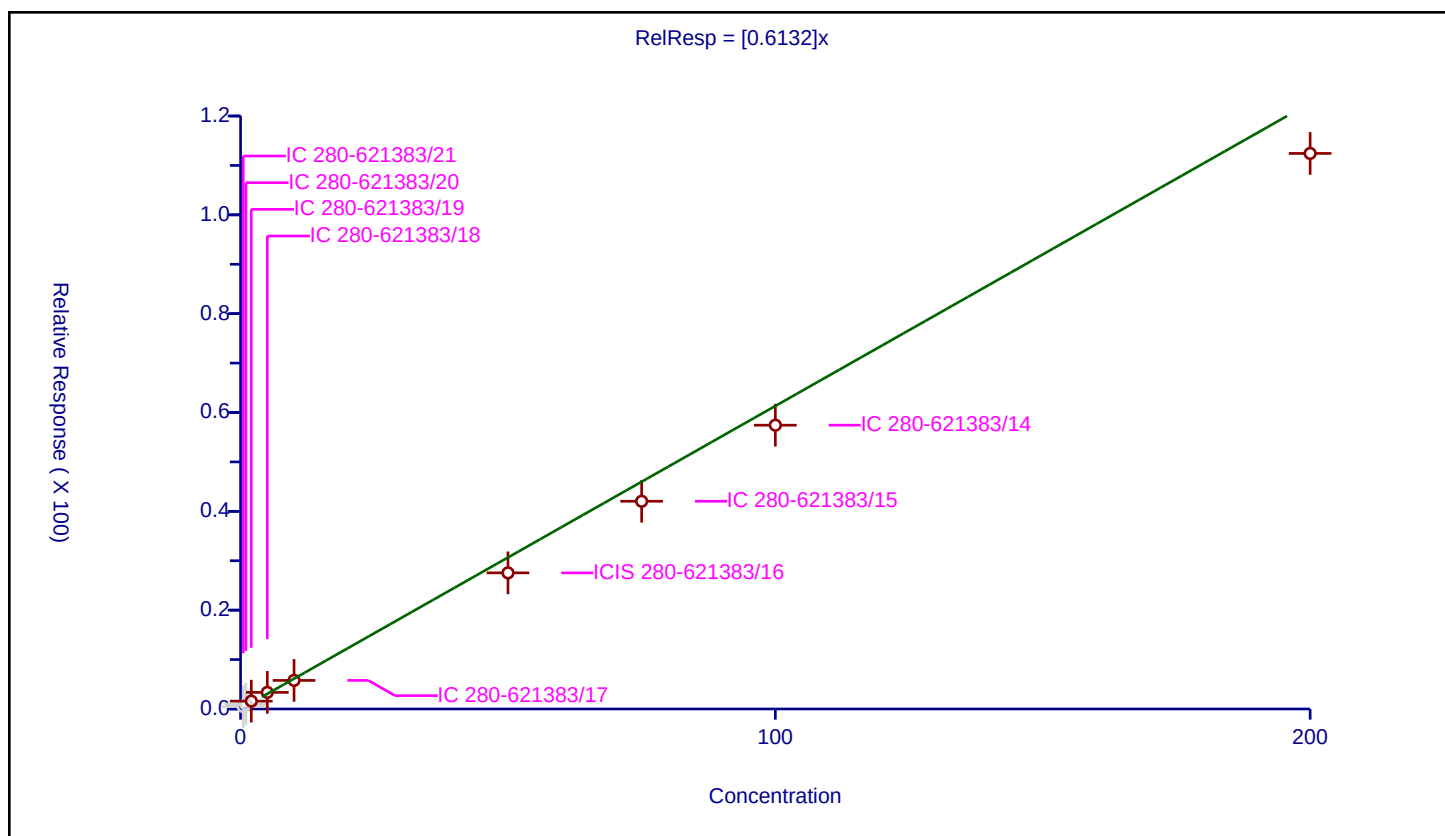
Curve Coefficients

Intercept: 0
 Slope: 0.6132

Error Coefficients

Standard Error: 1810000
 Relative Standard Error: 14.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.493203	50.0	1427607.0	0.986406	N
2	IC 280-621383/20	1.0	0.970236	50.0	1421716.0	0.970236	N
3	IC 280-621383/19	2.0	1.588734	50.0	1514225.0	0.794367	Y
4	IC 280-621383/18	5.0	3.359078	50.0	1505056.0	0.671816	Y
5	IC 280-621383/17	10.0	5.784297	50.0	1526132.0	0.57843	Y
6	ICIS 280-621383/16	50.0	27.546203	50.0	1619392.0	0.550924	Y
7	IC 280-621383/15	75.0	42.035545	50.0	1620318.0	0.560474	Y
8	IC 280-621383/14	100.0	57.431617	50.0	1615947.0	0.574316	Y
9	IC 280-621383/13	200.0	112.431241	50.0	1629600.0	0.562156	Y



Calibration

/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

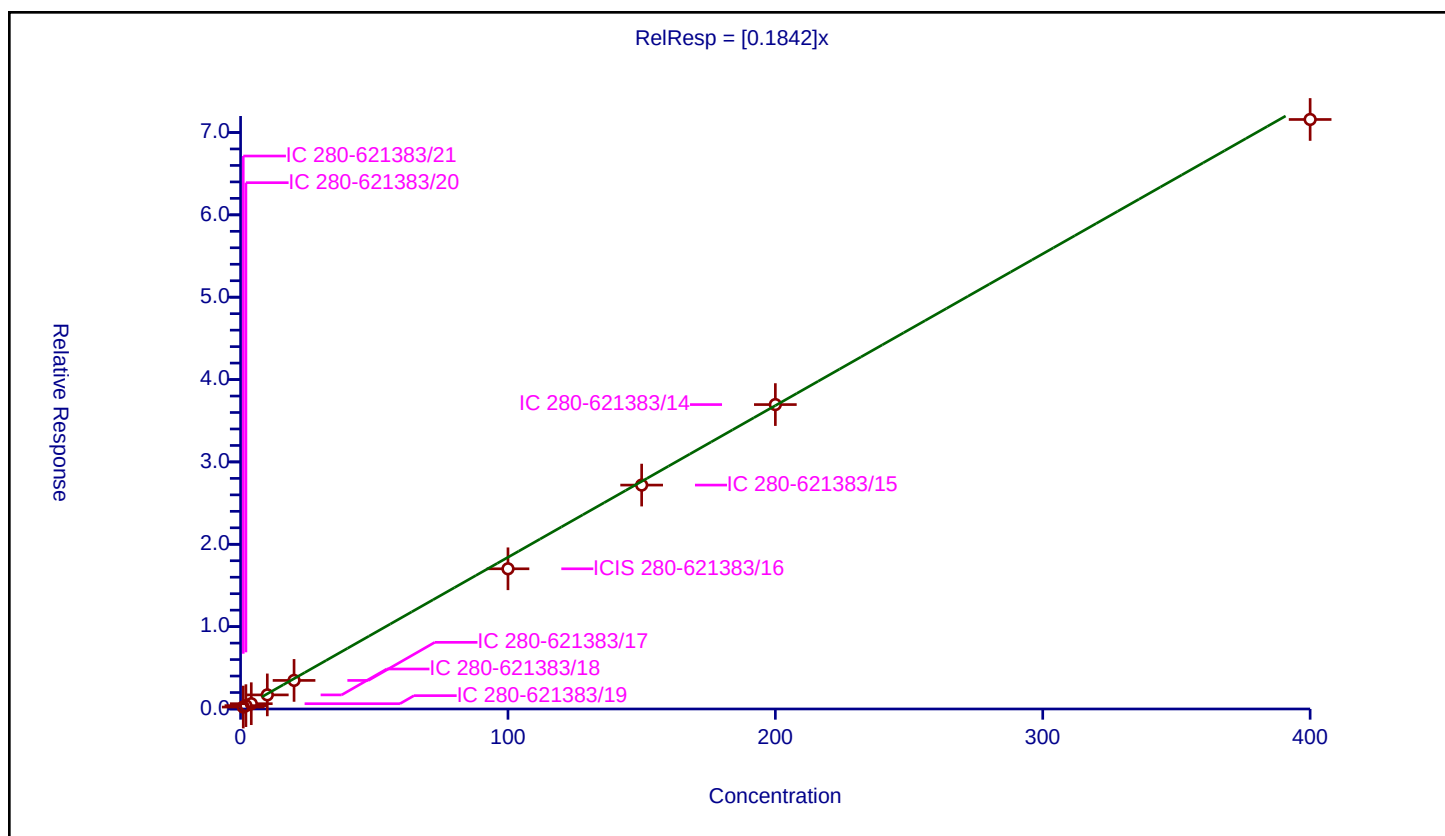
Curve Coefficients

Intercept: 0
Slope: 0.1842

Error Coefficients

Standard Error: 998000
Relative Standard Error: 12.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	1.0	0.234693	50.0	1427607.0	0.234693	Y
2	IC 280-621383/20	2.0	0.405039	50.0	1421716.0	0.202519	Y
3	IC 280-621383/19	4.0	0.643167	50.0	1514225.0	0.160792	Y
4	IC 280-621383/18	10.0	1.712262	50.0	1505056.0	0.171226	Y
5	IC 280-621383/17	20.0	3.469654	50.0	1526132.0	0.173483	Y
6	ICIS 280-621383/16	100.0	17.022284	50.0	1619392.0	0.170223	Y
7	IC 280-621383/15	150.0	27.188151	50.0	1620318.0	0.181254	Y
8	IC 280-621383/14	200.0	36.963341	50.0	1615947.0	0.184817	Y
9	IC 280-621383/13	400.0	71.580541	50.0	1629600.0	0.178951	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

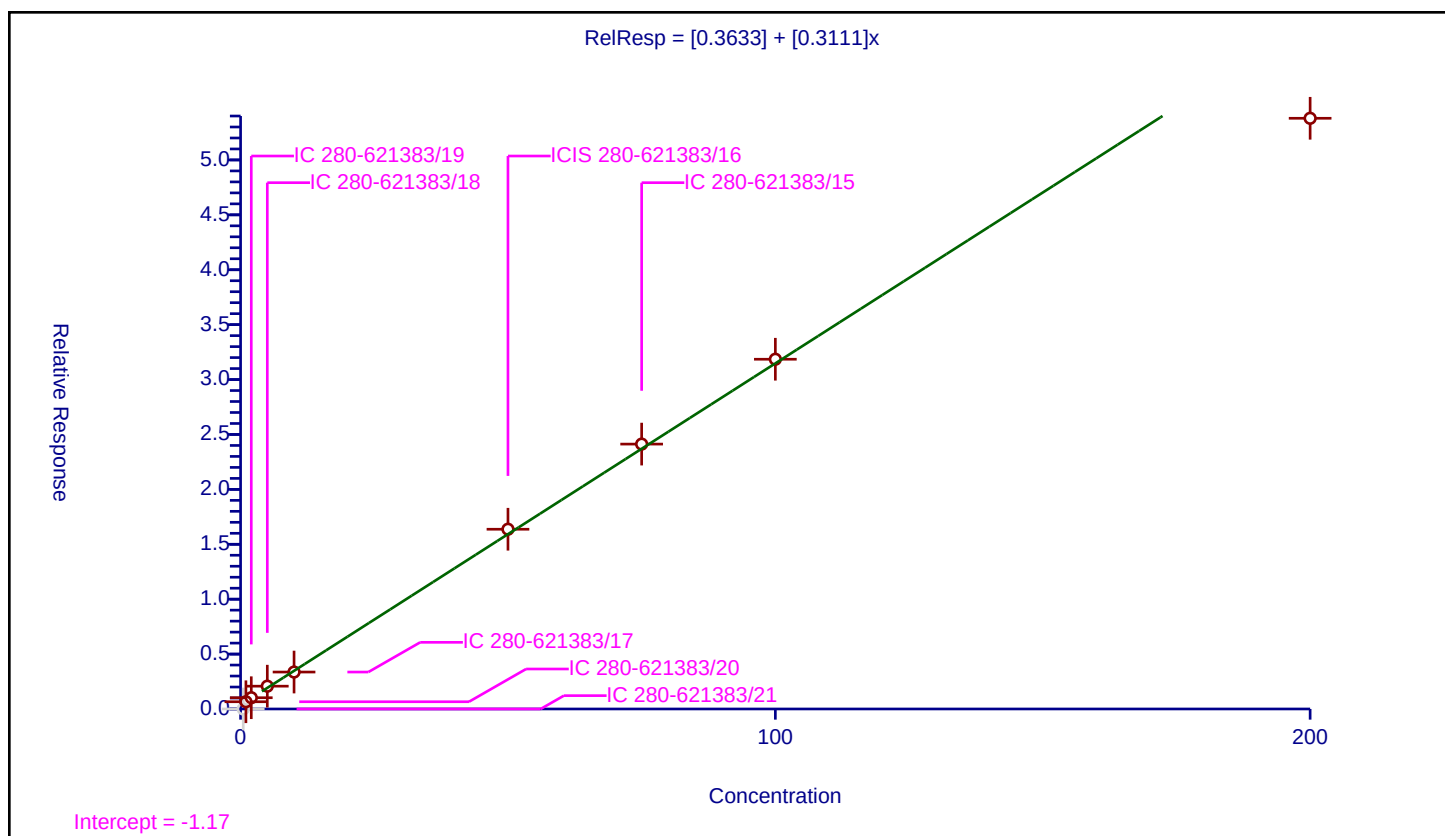
Curve Coefficients

Intercept: 0.3633
Slope: 0.3111

Error Coefficients

Standard Error: 917000
Relative Standard Error: 8.1
Correlation Coefficient: 0.991
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.659028	50.0	1421716.0	0.659028	Y
3	IC 280-621383/19	2.0	1.025838	50.0	1514225.0	0.512919	Y
4	IC 280-621383/18	5.0	2.077863	50.0	1505056.0	0.415573	Y
5	IC 280-621383/17	10.0	3.364486	50.0	1526132.0	0.336449	Y
6	ICIS 280-621383/16	50.0	16.369446	50.0	1619392.0	0.327389	Y
7	IC 280-621383/15	75.0	24.121716	50.0	1620318.0	0.321623	Y
8	IC 280-621383/14	100.0	31.849528	50.0	1615947.0	0.318495	Y
9	IC 280-621383/13	200.0	53.793139	50.0	1629600.0	0.268966	Y



Calibration

/ Methylene Chloride

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

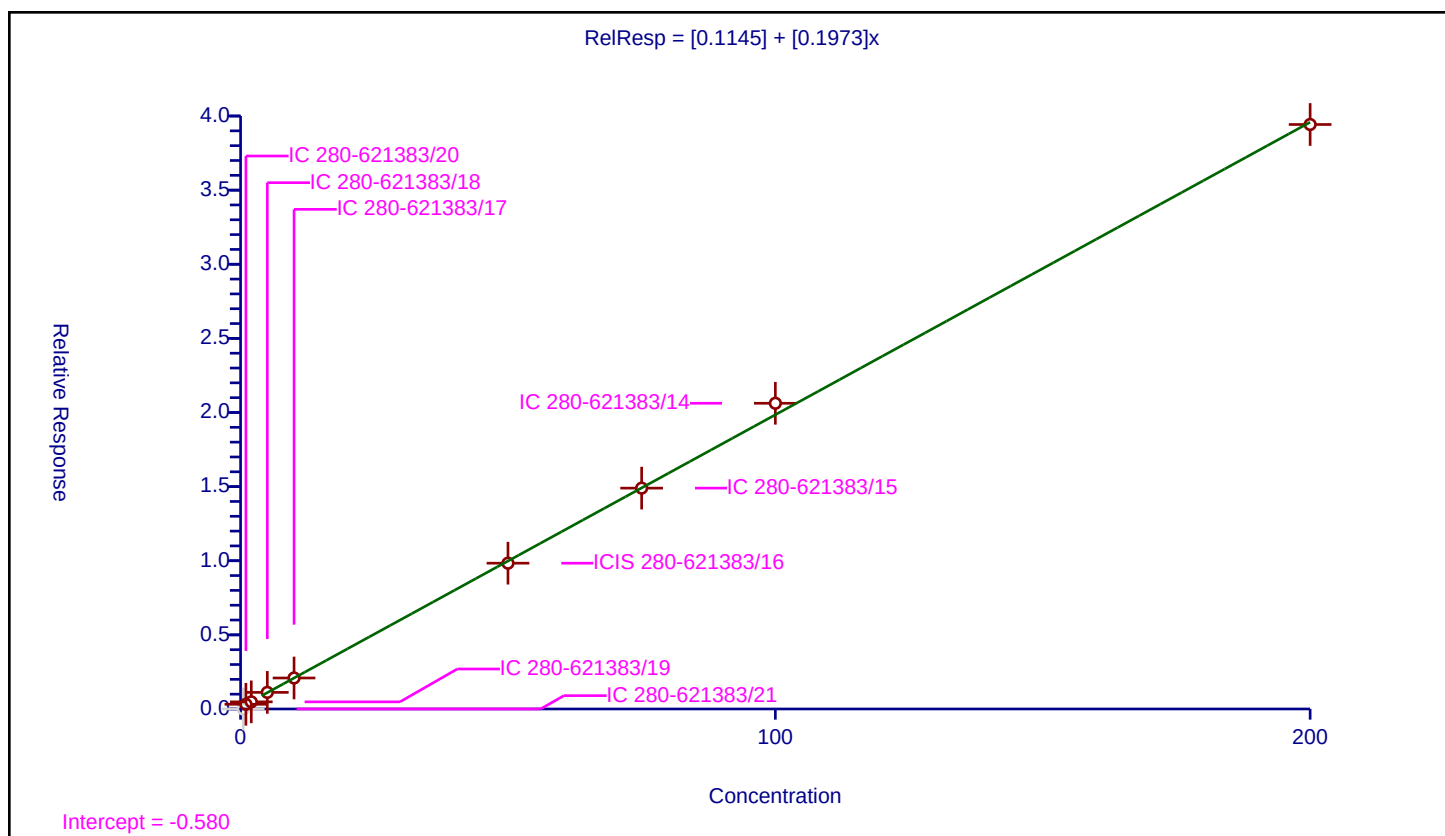
Curve Coefficients

Intercept: 0.1145
 Slope: 0.1973

Error Coefficients

Standard Error: 637000
 Relative Standard Error: 3.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.318172	50.0	1421716.0	0.318172	Y
3	IC 280-621383/19	2.0	0.480609	50.0	1514225.0	0.240304	Y
4	IC 280-621383/18	5.0	1.119493	50.0	1505056.0	0.223899	Y
5	IC 280-621383/17	10.0	2.091366	50.0	1526132.0	0.209137	Y
6	ICIS 280-621383/16	50.0	9.83579	50.0	1619392.0	0.196716	Y
7	IC 280-621383/15	75.0	14.898218	50.0	1620318.0	0.198643	Y
8	IC 280-621383/14	100.0	20.622737	50.0	1615947.0	0.206227	Y
9	IC 280-621383/13	200.0	39.428449	50.0	1629600.0	0.197142	Y



Calibration

/ 2-Methyl-2-propanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

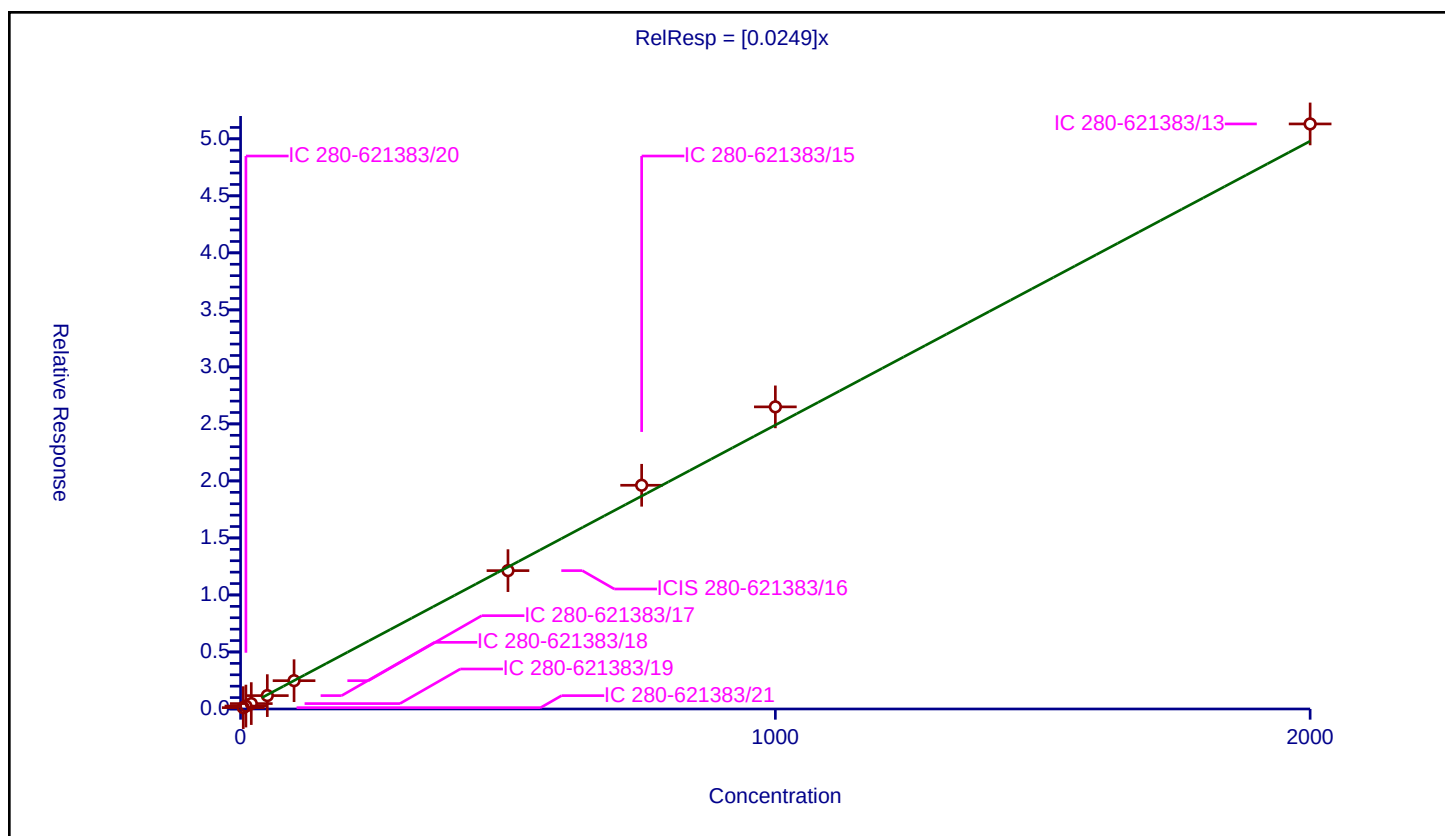
Curve Coefficients

Intercept: 0
Slope: 0.0249

Error Coefficients

Standard Error: 715000
Relative Standard Error: 4.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	5.0	0.119115	50.0	1427607.0	0.023823	Y
2	IC 280-621383/20	10.0	0.256908	50.0	1421716.0	0.025691	Y
3	IC 280-621383/19	20.0	0.474533	50.0	1514225.0	0.023727	Y
4	IC 280-621383/18	50.0	1.172614	50.0	1505056.0	0.023452	Y
5	IC 280-621383/17	100.0	2.482223	50.0	1526132.0	0.024822	Y
6	ICIS 280-621383/16	500.0	12.1323	50.0	1619392.0	0.024265	Y
7	IC 280-621383/15	750.0	19.619822	50.0	1620318.0	0.02616	Y
8	IC 280-621383/14	1000.0	26.493969	50.0	1615947.0	0.026494	Y
9	IC 280-621383/13	2000.0	51.305811	50.0	1629600.0	0.025653	Y



Calibration

/ Acrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

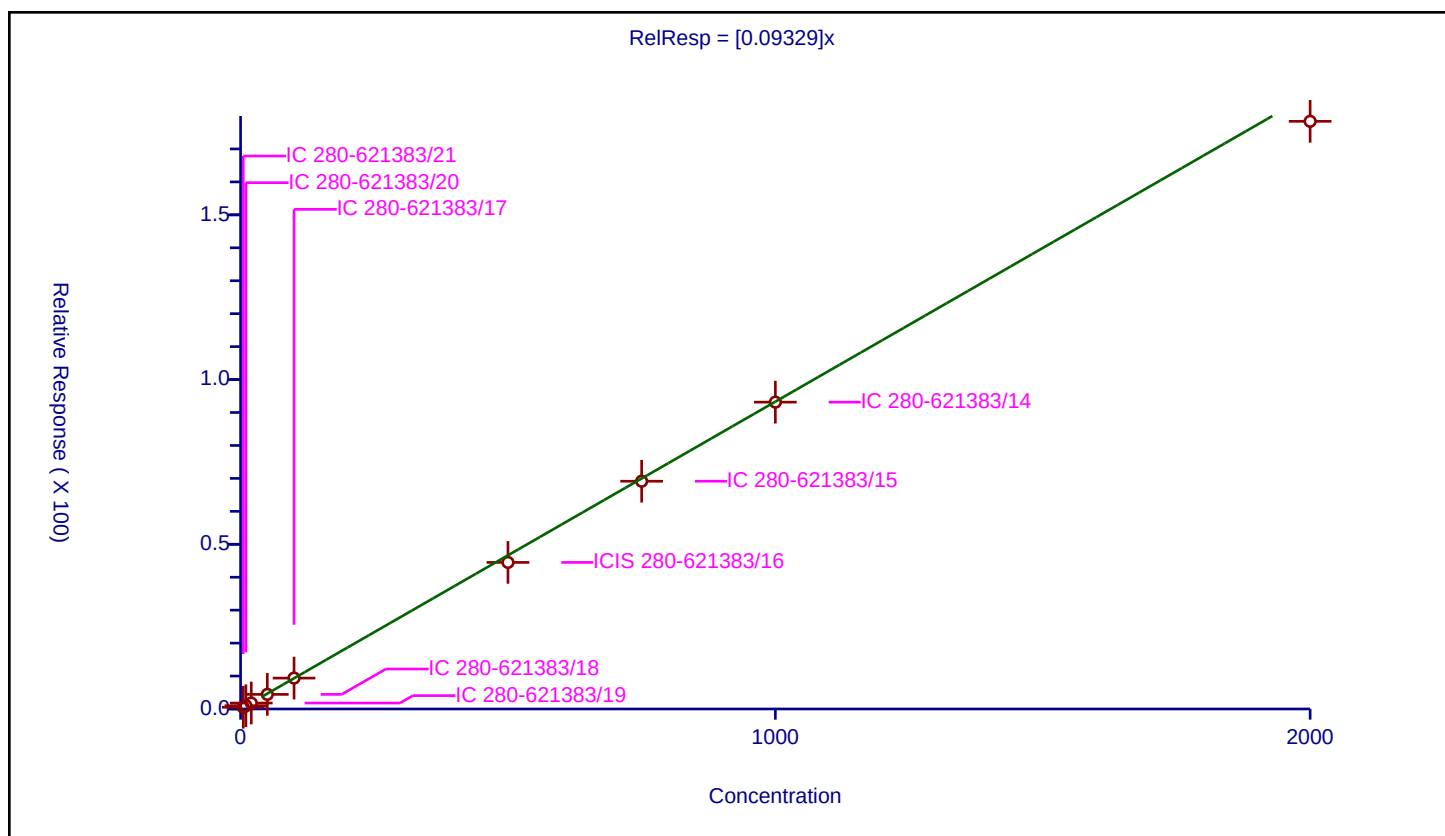
Curve Coefficients

Intercept: 0
Slope: 0.09329

Error Coefficients

Standard Error: 2500000
Relative Standard Error: 5.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	5.0	0.521607	50.0	1427607.0	0.104321	Y
2	IC 280-621383/20	10.0	0.990177	50.0	1421716.0	0.099018	Y
3	IC 280-621383/19	20.0	1.80594	50.0	1514225.0	0.090297	Y
4	IC 280-621383/18	50.0	4.433722	50.0	1505056.0	0.088674	Y
5	IC 280-621383/17	100.0	9.378219	50.0	1526132.0	0.093782	Y
6	ICIS 280-621383/16	500.0	44.490988	50.0	1619392.0	0.088982	Y
7	IC 280-621383/15	750.0	69.145131	50.0	1620318.0	0.092194	Y
8	IC 280-621383/14	1000.0	93.140988	50.0	1615947.0	0.093141	Y
9	IC 280-621383/13	2000.0	178.386414	50.0	1629600.0	0.089193	Y



Calibration

/ Methyl tert-butyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

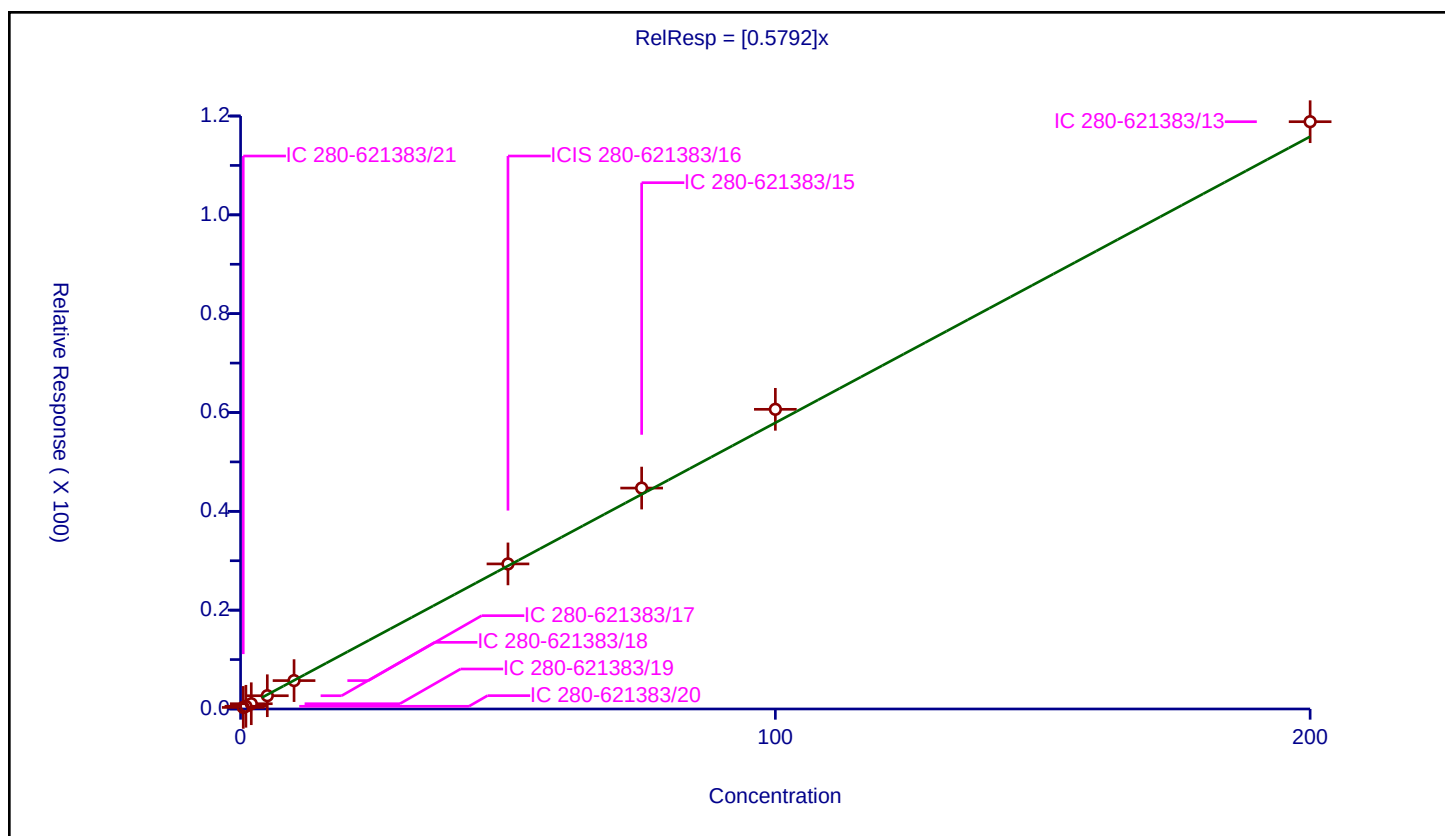
Curve Coefficients

Intercept: 0
Slope: 0.5792

Error Coefficients

Standard Error: 1650000
Relative Standard Error: 5.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.31812	50.0	1427607.0	0.63624	Y
2	IC 280-621383/20	1.0	0.547578	50.0	1421716.0	0.547578	Y
3	IC 280-621383/19	2.0	1.066585	50.0	1514225.0	0.533293	Y
4	IC 280-621383/18	5.0	2.686611	50.0	1505056.0	0.537322	Y
5	IC 280-621383/17	10.0	5.742459	50.0	1526132.0	0.574246	Y
6	ICIS 280-621383/16	50.0	29.357098	50.0	1619392.0	0.587142	Y
7	IC 280-621383/15	75.0	44.706193	50.0	1620318.0	0.596083	Y
8	IC 280-621383/14	100.0	60.645925	50.0	1615947.0	0.606459	Y
9	IC 280-621383/13	200.0	118.84935	50.0	1629600.0	0.594247	Y



Calibration

/ trans-1,2-Dichloroethene

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

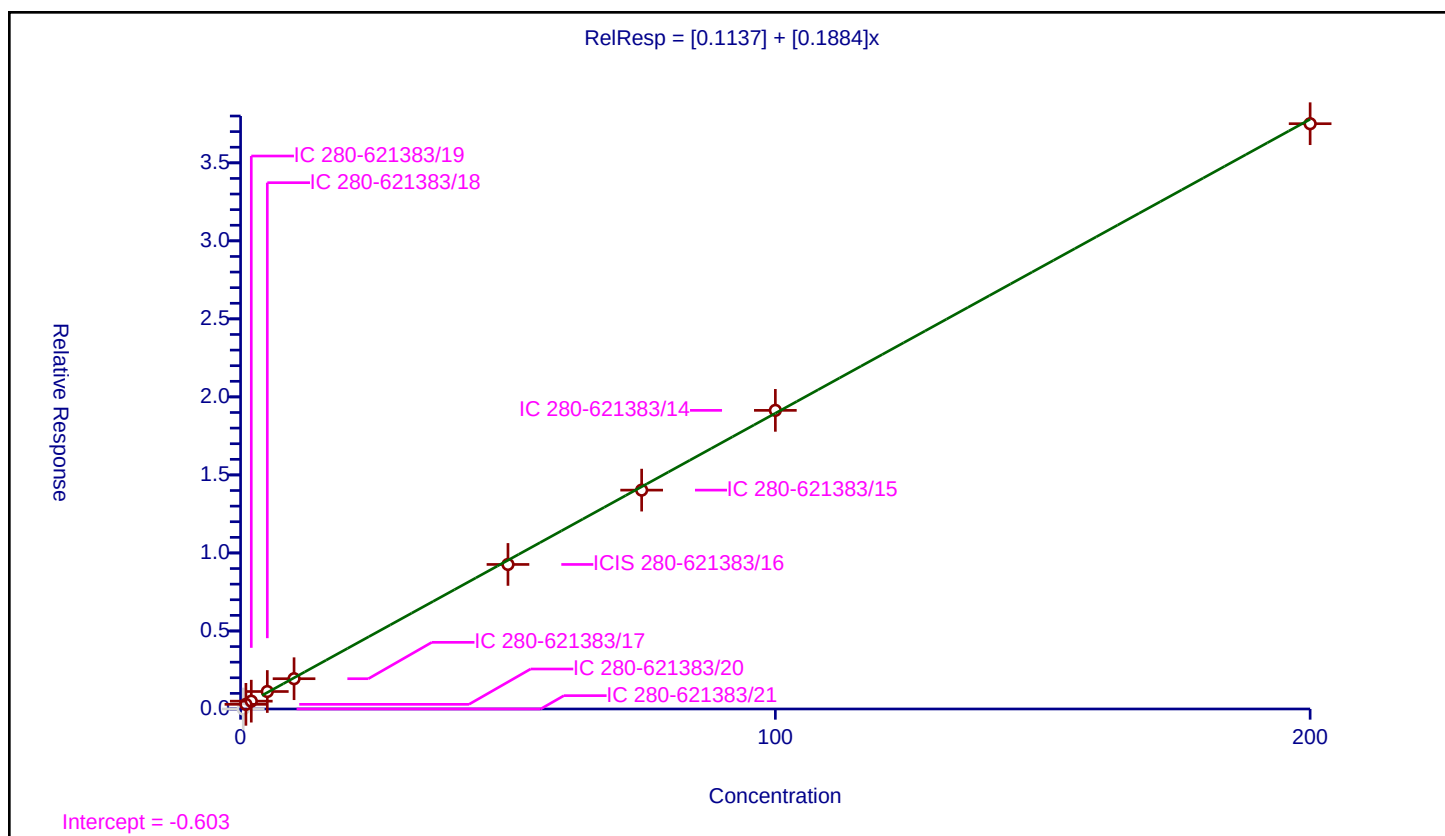
Curve Coefficients

Intercept: 0.1137
Slope: 0.1884

Error Coefficients

Standard Error: 603000
Relative Standard Error: 3.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.297598	50.0	1421716.0	0.297598	Y
3	IC 280-621383/19	2.0	0.500751	50.0	1514225.0	0.250376	Y
4	IC 280-621383/18	5.0	1.119593	50.0	1505056.0	0.223919	Y
5	IC 280-621383/17	10.0	1.940494	50.0	1526132.0	0.194049	Y
6	ICIS 280-621383/16	50.0	9.263137	50.0	1619392.0	0.185263	Y
7	IC 280-621383/15	75.0	14.026105	50.0	1620318.0	0.187015	Y
8	IC 280-621383/14	100.0	19.136921	50.0	1615947.0	0.191369	Y
9	IC 280-621383/13	200.0	37.506965	50.0	1629600.0	0.187535	Y



Calibration

/ Hexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

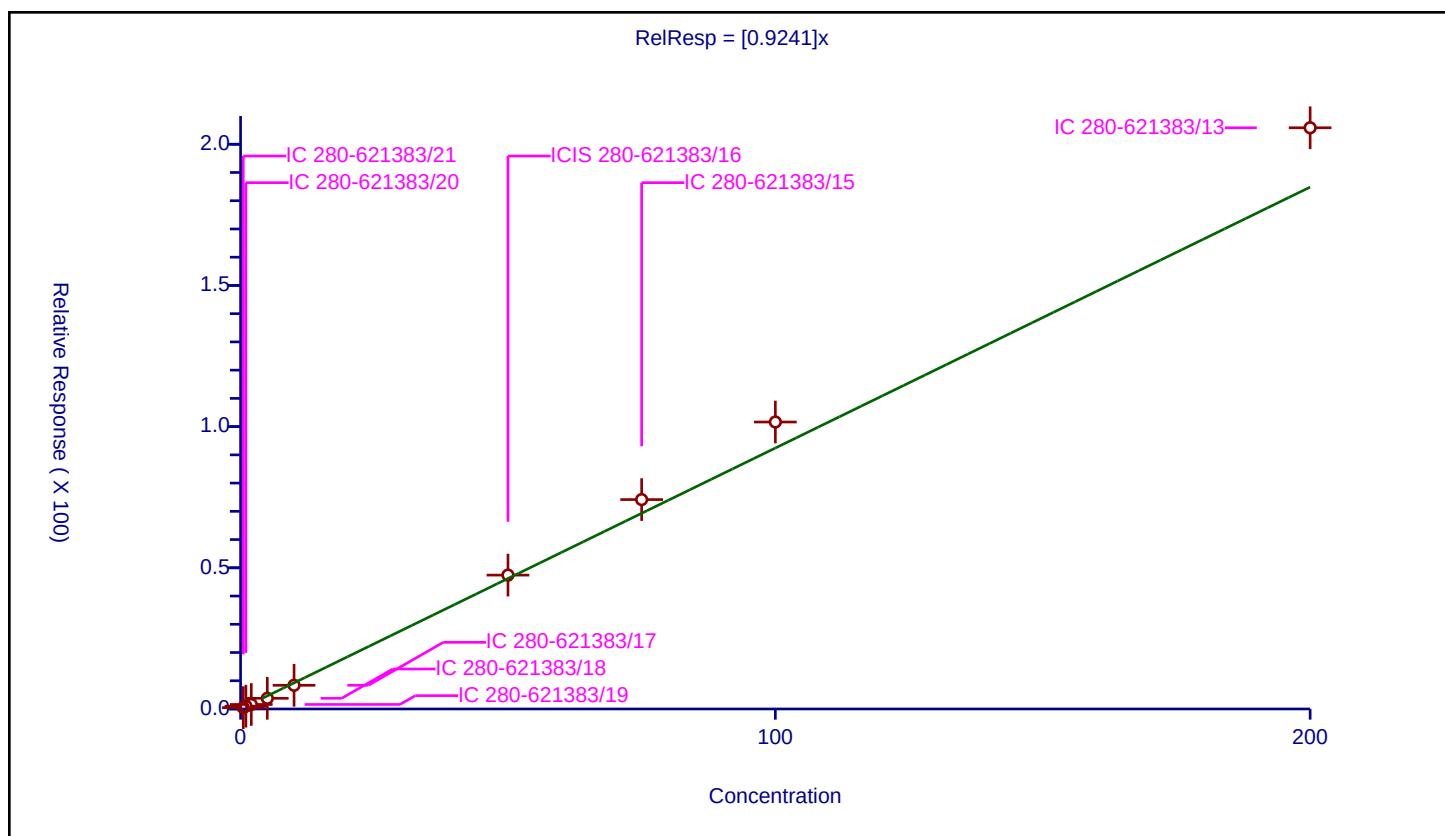
Curve Coefficients

Intercept: 0
 Slope: 0.9241

Error Coefficients

Standard Error: 699000
 Relative Standard Error: 10.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.470777	50.0	360362.0	0.941553	Y
2	IC 280-621383/20	1.0	0.997179	50.0	356205.0	0.997179	Y
3	IC 280-621383/19	2.0	1.601523	50.0	381387.0	0.800761	Y
4	IC 280-621383/18	5.0	3.77764	50.0	379430.0	0.755528	Y
5	IC 280-621383/17	10.0	8.39558	50.0	383553.0	0.839558	Y
6	ICIS 280-621383/16	50.0	47.417152	50.0	389086.0	0.948343	Y
7	IC 280-621383/15	75.0	74.153974	50.0	391832.0	0.98872	Y
8	IC 280-621383/14	100.0	101.632991	50.0	397216.0	1.01633	Y
9	IC 280-621383/13	200.0	205.836226	50.0	405022.0	1.029181	Y



Calibration

/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

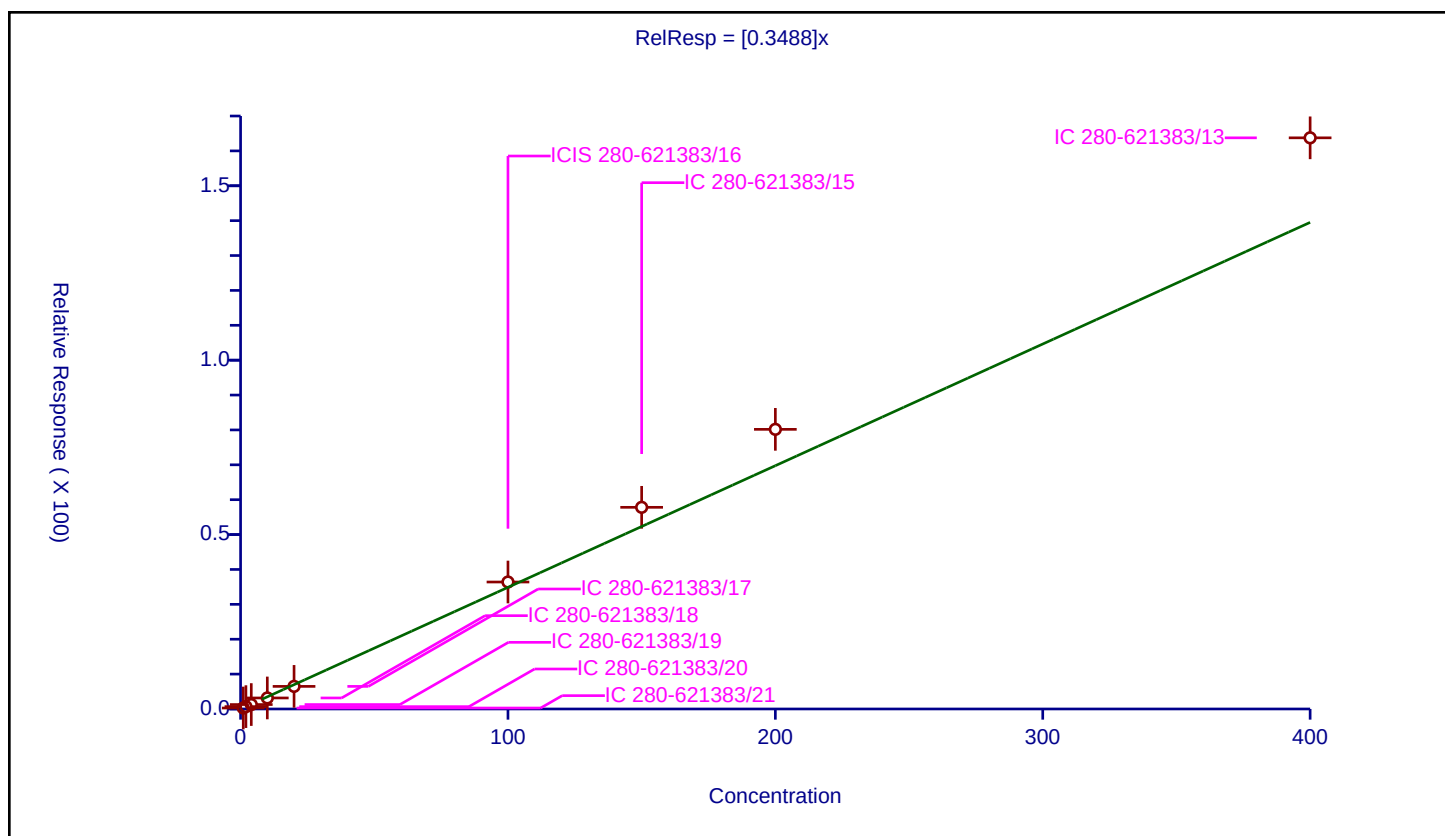
Curve Coefficients

Intercept: 0
 Slope: 0.3488

Error Coefficients

Standard Error: 2240000
 Relative Standard Error: 12.5
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	1.0	0.280504	50.0	1427607.0	0.280504	Y
2	IC 280-621383/20	2.0	0.680375	50.0	1421716.0	0.340187	Y
3	IC 280-621383/19	4.0	1.272334	50.0	1514225.0	0.318084	Y
4	IC 280-621383/18	10.0	3.164866	50.0	1505056.0	0.316487	Y
5	IC 280-621383/17	20.0	6.480665	50.0	1526132.0	0.324033	Y
6	ICIS 280-621383/16	100.0	36.400081	50.0	1619392.0	0.364001	Y
7	IC 280-621383/15	150.0	57.812787	50.0	1620318.0	0.385419	Y
8	IC 280-621383/14	200.0	80.16844	50.0	1615947.0	0.400842	Y
9	IC 280-621383/13	400.0	163.742483	50.0	1629600.0	0.409356	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

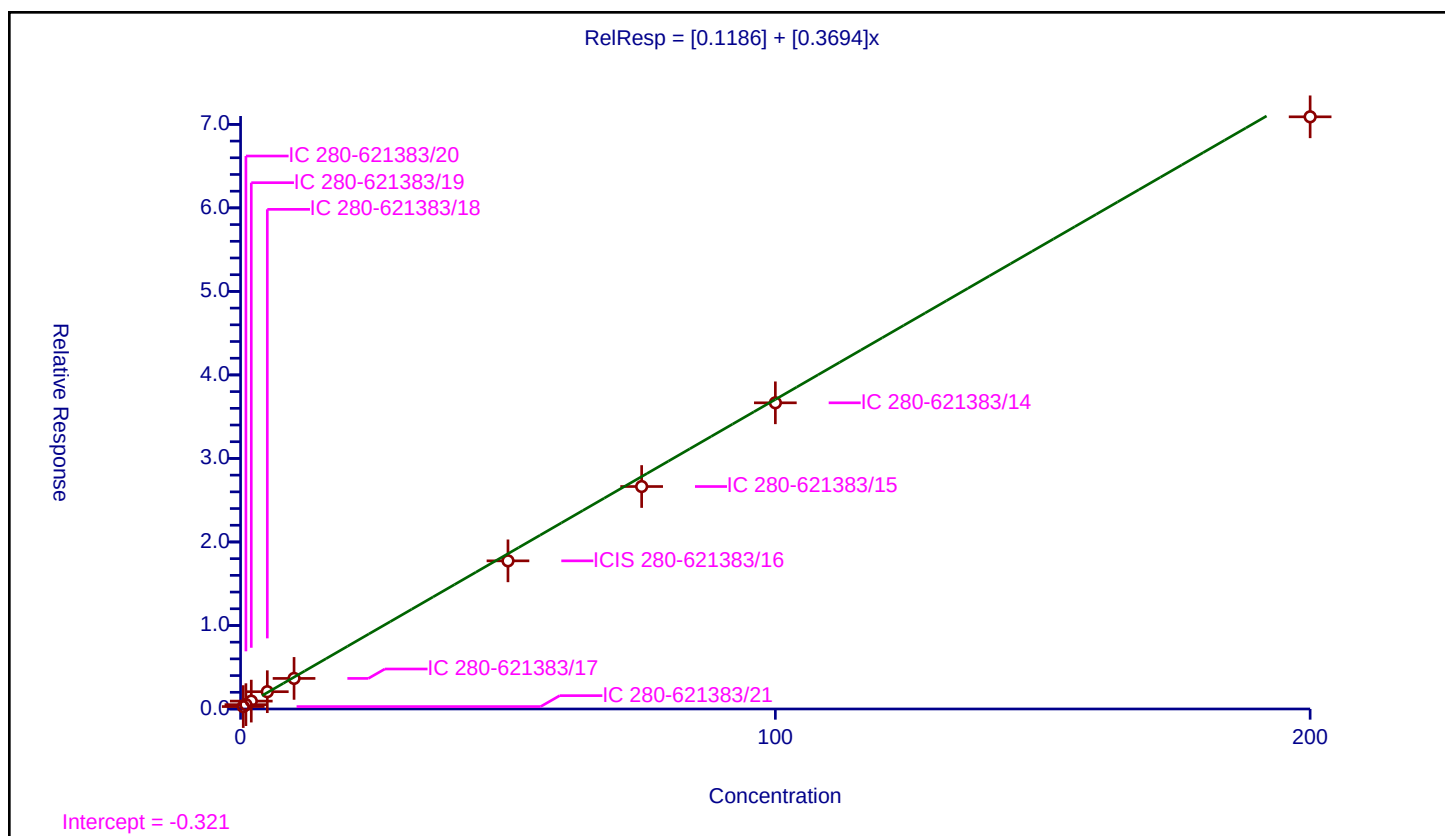
Curve Coefficients

Intercept: 0.1186
 Slope: 0.3694

Error Coefficients

Standard Error: 1060000
 Relative Standard Error: 7.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.289646	50.0	1427607.0	0.579291	Y
2	IC 280-621383/20	1.0	0.519091	50.0	1421716.0	0.519091	Y
3	IC 280-621383/19	2.0	0.944014	50.0	1514225.0	0.472007	Y
4	IC 280-621383/18	5.0	2.070056	50.0	1505056.0	0.414011	Y
5	IC 280-621383/17	10.0	3.659185	50.0	1526132.0	0.365919	Y
6	ICIS 280-621383/16	50.0	17.738478	50.0	1619392.0	0.35477	Y
7	IC 280-621383/15	75.0	26.636716	50.0	1620318.0	0.355156	Y
8	IC 280-621383/14	100.0	36.659897	50.0	1615947.0	0.366599	Y
9	IC 280-621383/13	200.0	70.90421	50.0	1629600.0	0.354521	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

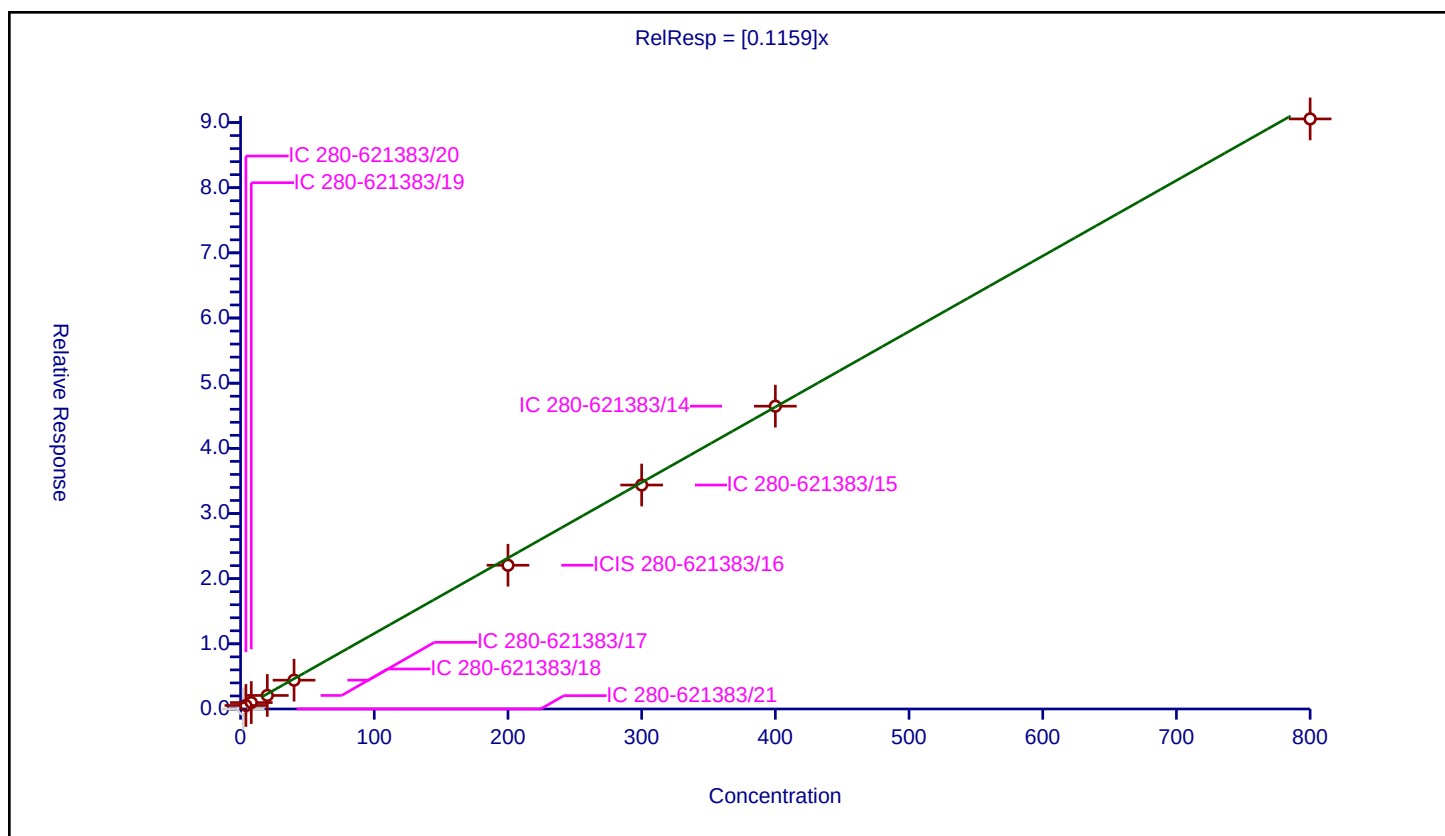
Curve Coefficients

Intercept: 0
 Slope: 0.1159

Error Coefficients

Standard Error: 1350000
 Relative Standard Error: 8.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	2.0	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	4.0	0.540931	50.0	1421716.0	0.135233	Y
3	IC 280-621383/19	8.0	0.9842	50.0	1514225.0	0.123025	Y
4	IC 280-621383/18	20.0	2.076899	50.0	1505056.0	0.103845	Y
5	IC 280-621383/17	40.0	4.423733	50.0	1526132.0	0.110593	Y
6	ICIS 280-621383/16	200.0	22.059699	50.0	1619392.0	0.110298	Y
7	IC 280-621383/15	300.0	34.368994	50.0	1620318.0	0.114563	Y
8	IC 280-621383/14	400.0	46.470274	50.0	1615947.0	0.116176	Y
9	IC 280-621383/13	800.0	90.555382	50.0	1629600.0	0.113194	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

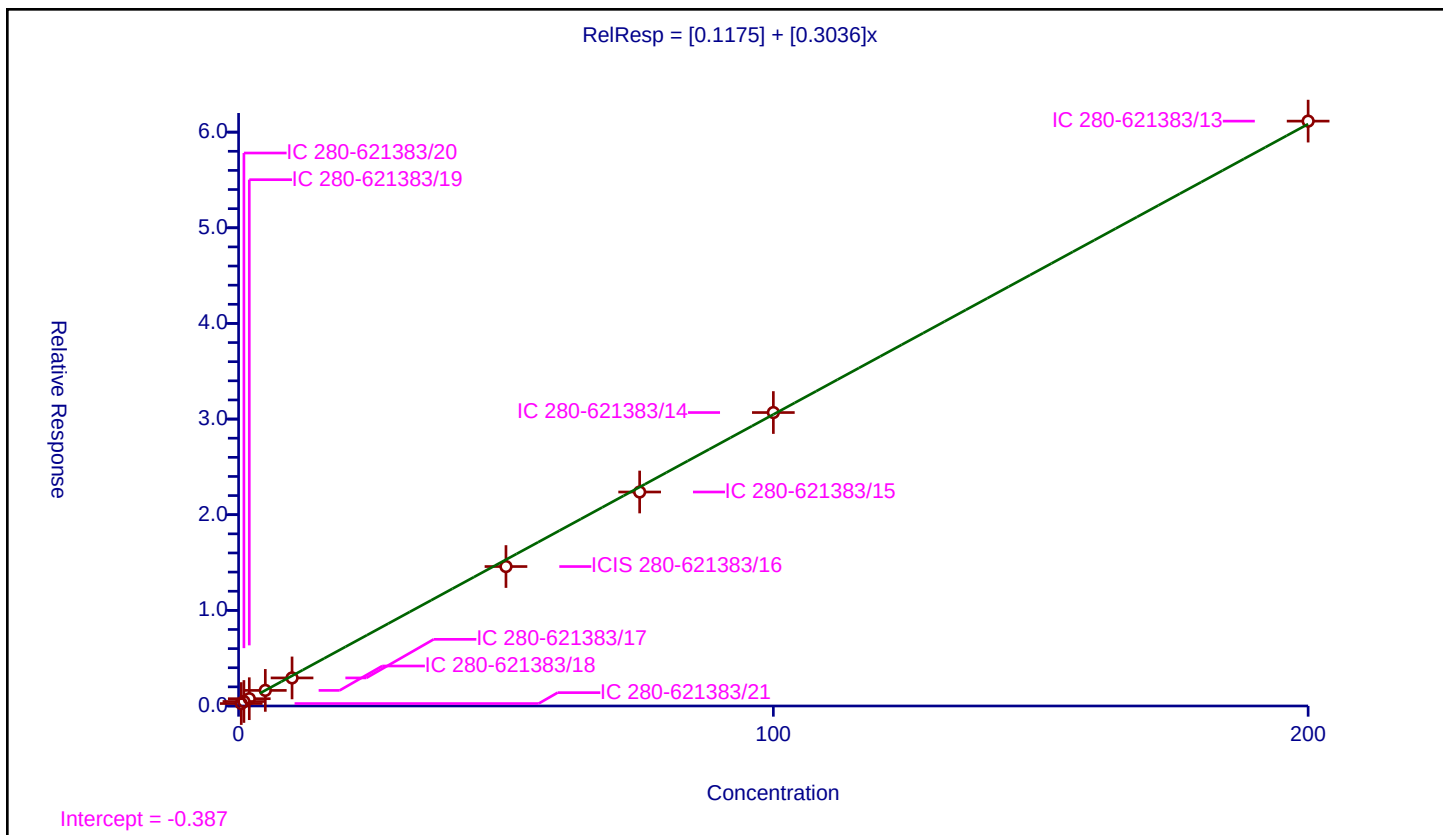
Curve Coefficients

Intercept: 0.1175
 Slope: 0.3036

Error Coefficients

Standard Error: 904000
 Relative Standard Error: 8.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.255147	50.0	1427607.0	0.510294	Y
2	IC 280-621383/20	1.0	0.470875	50.0	1421716.0	0.470875	Y
3	IC 280-621383/19	2.0	0.763526	50.0	1514225.0	0.381763	Y
4	IC 280-621383/18	5.0	1.630272	50.0	1505056.0	0.326054	Y
5	IC 280-621383/17	10.0	2.934215	50.0	1526132.0	0.293422	Y
6	ICIS 280-621383/16	50.0	14.580503	50.0	1619392.0	0.29161	Y
7	IC 280-621383/15	75.0	22.374559	50.0	1620318.0	0.298327	Y
8	IC 280-621383/14	100.0	30.683958	50.0	1615947.0	0.30684	Y
9	IC 280-621383/13	200.0	61.153289	50.0	1629600.0	0.305766	Y



Calibration

/ cis-1,2-Dichloroethene

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

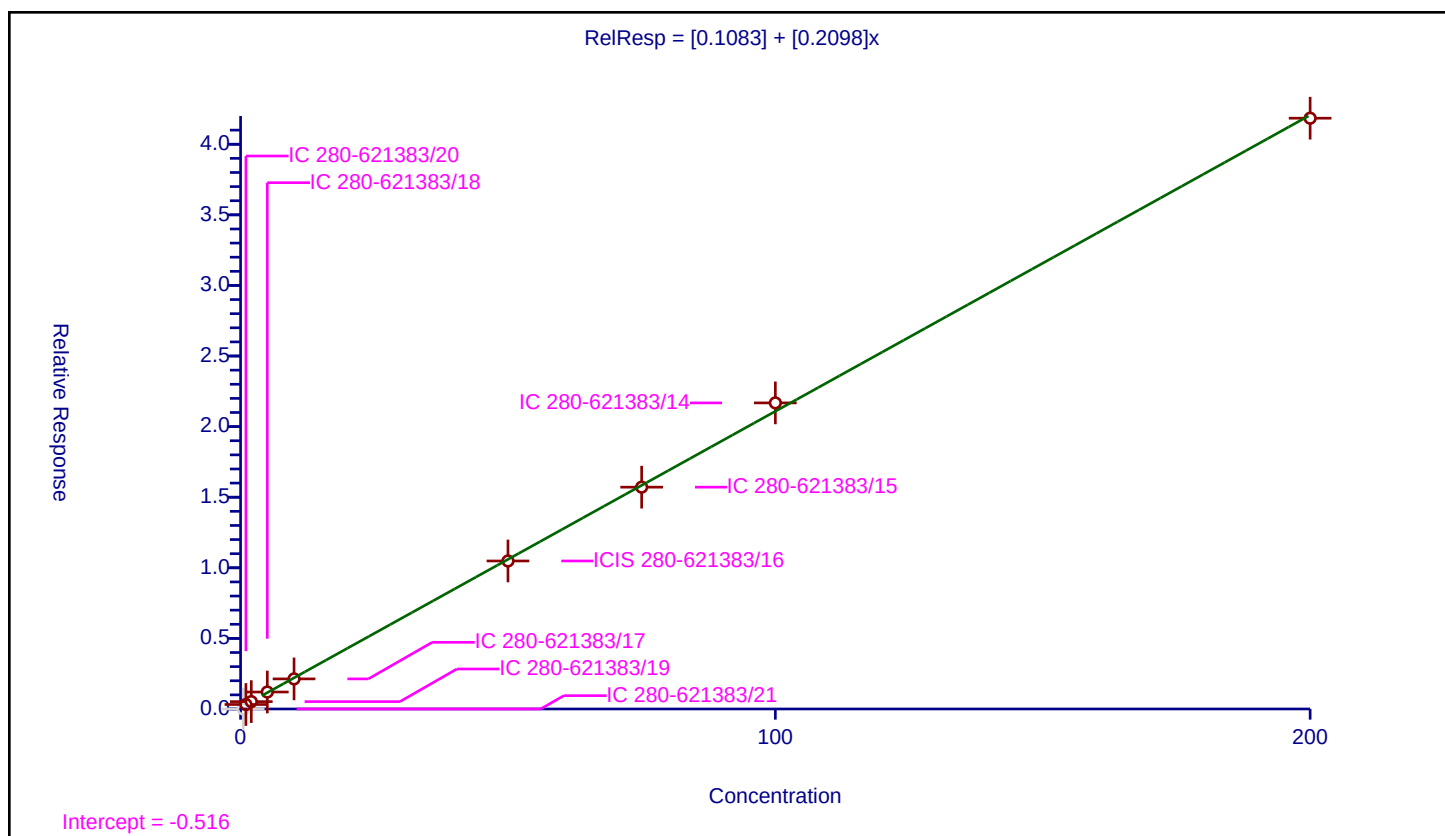
Curve Coefficients

Intercept: 0.1083
Slope: 0.2098

Error Coefficients

Standard Error: 675000
Relative Standard Error: 2.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.318488	50.0	1421716.0	0.318488	Y
3	IC 280-621383/19	2.0	0.52195	50.0	1514225.0	0.260975	Y
4	IC 280-621383/18	5.0	1.202945	50.0	1505056.0	0.240589	Y
5	IC 280-621383/17	10.0	2.130976	50.0	1526132.0	0.213098	Y
6	ICIS 280-621383/16	50.0	10.484336	50.0	1619392.0	0.209687	Y
7	IC 280-621383/15	75.0	15.711052	50.0	1620318.0	0.209481	Y
8	IC 280-621383/14	100.0	21.681064	50.0	1615947.0	0.216811	Y
9	IC 280-621383/13	200.0	41.844471	50.0	1629600.0	0.209222	Y



Calibration

/ sec-Butyl Alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

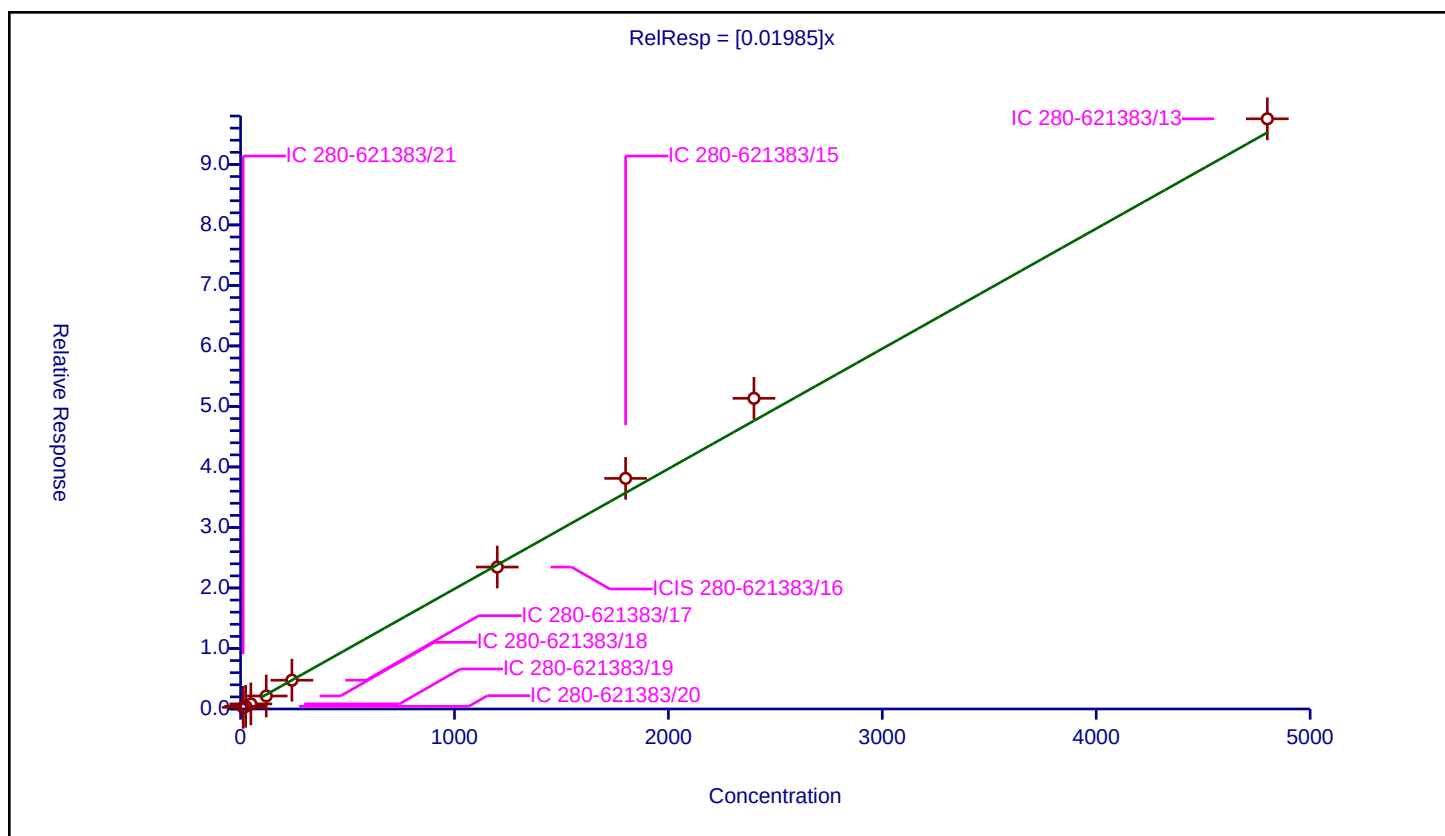
Curve Coefficients

Intercept: 0
Slope: 0.01985

Error Coefficients

Standard Error: 1370000
Relative Standard Error: 8.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	12.0	0.271924	50.0	1427607.0	0.02266	Y
2	IC 280-621383/20	24.0	0.436796	50.0	1421716.0	0.0182	Y
3	IC 280-621383/19	48.0	0.845053	50.0	1514225.0	0.017605	Y
4	IC 280-621383/18	120.0	2.148259	50.0	1505056.0	0.017902	Y
5	IC 280-621383/17	240.0	4.757092	50.0	1526132.0	0.019821	Y
6	ICIS 280-621383/16	1200.0	23.459051	50.0	1619392.0	0.019549	Y
7	IC 280-621383/15	1800.0	38.111192	50.0	1620318.0	0.021173	Y
8	IC 280-621383/14	2400.0	51.347198	50.0	1615947.0	0.021395	Y
9	IC 280-621383/13	4800.0	97.536236	50.0	1629600.0	0.02032	Y



Calibration

/ Chlorobromomethane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

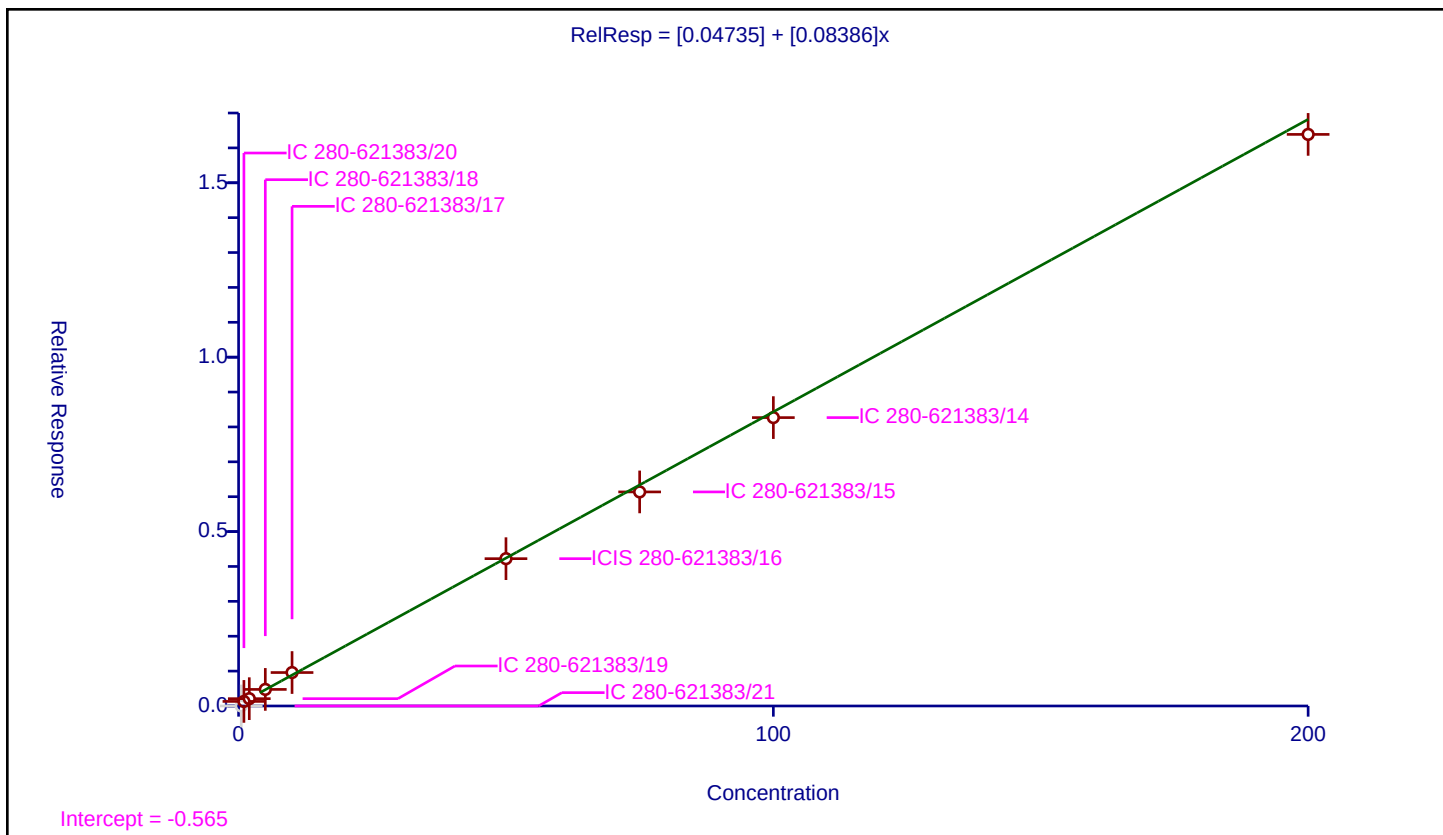
Curve Coefficients

Intercept: 0.04735
 Slope: 0.08386

Error Coefficients

Standard Error: 263000
 Relative Standard Error: 4.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.131461	50.0	1421716.0	0.131461	Y
3	IC 280-621383/19	2.0	0.210008	50.0	1514225.0	0.105004	Y
4	IC 280-621383/18	5.0	0.475364	50.0	1505056.0	0.095073	Y
5	IC 280-621383/17	10.0	0.959222	50.0	1526132.0	0.095922	Y
6	ICIS 280-621383/16	50.0	4.223591	50.0	1619392.0	0.084472	Y
7	IC 280-621383/15	75.0	6.136913	50.0	1620318.0	0.081826	Y
8	IC 280-621383/14	100.0	8.267753	50.0	1615947.0	0.082678	Y
9	IC 280-621383/13	200.0	16.386751	50.0	1629600.0	0.081934	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

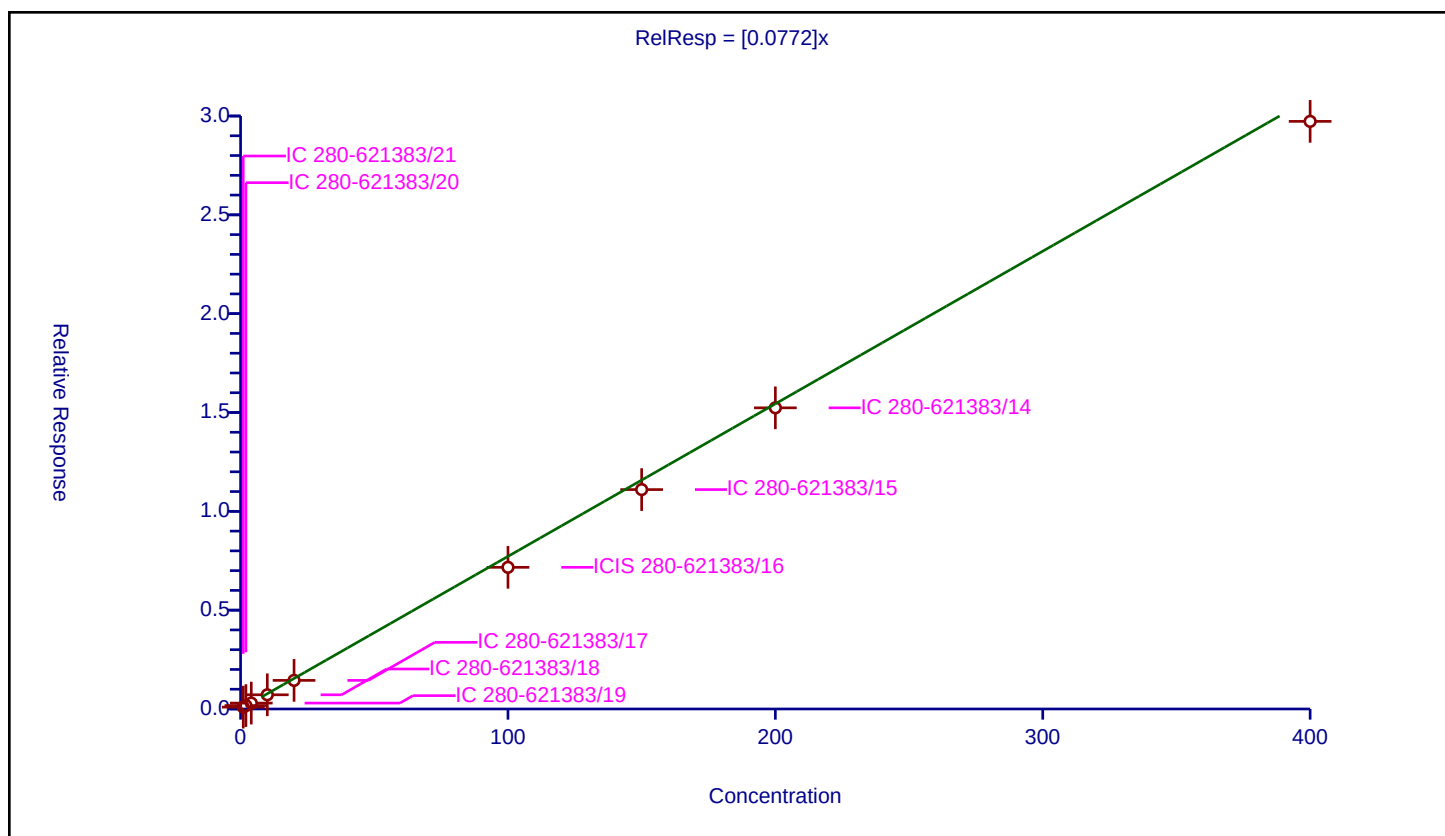
Curve Coefficients

Intercept: 0
Slope: 0.0772

Error Coefficients

Standard Error: 413000
Relative Standard Error: 9.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	1.0	0.093443	50.0	1427607.0	0.093443	Y
2	IC 280-621383/20	2.0	0.172995	50.0	1421716.0	0.086498	Y
3	IC 280-621383/19	4.0	0.29837	50.0	1514225.0	0.074593	Y
4	IC 280-621383/18	10.0	0.717947	50.0	1505056.0	0.071795	Y
5	IC 280-621383/17	20.0	1.446369	50.0	1526132.0	0.072318	Y
6	ICIS 280-621383/16	100.0	7.166671	50.0	1619392.0	0.071667	Y
7	IC 280-621383/15	150.0	11.100414	50.0	1620318.0	0.074003	Y
8	IC 280-621383/14	200.0	15.236546	50.0	1615947.0	0.076183	Y
9	IC 280-621383/13	400.0	29.728308	50.0	1629600.0	0.074321	Y



Calibration

/ Chloroform

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

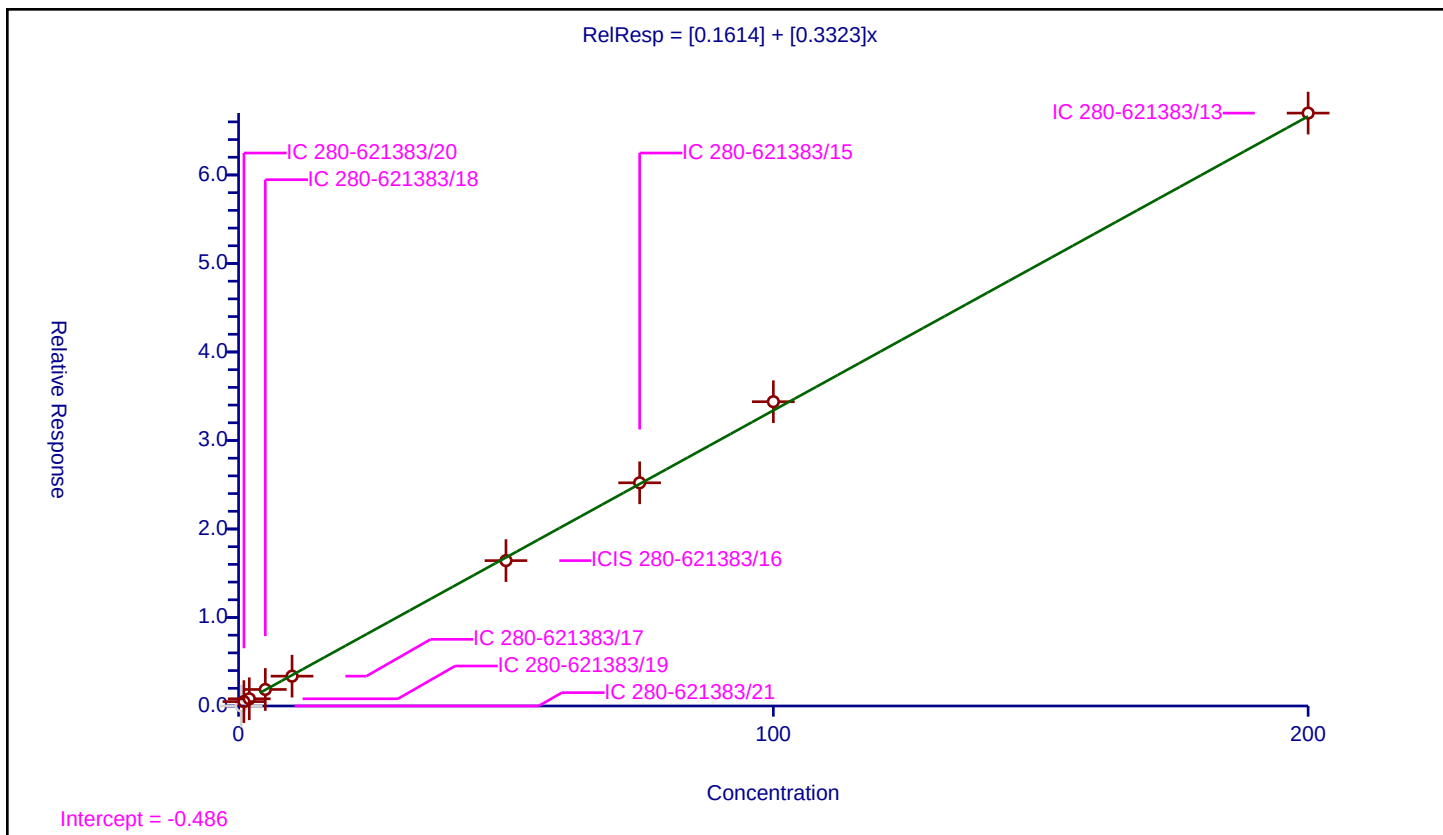
Curve Coefficients

Intercept: 0.1614
Slope: 0.3323

Error Coefficients

Standard Error: 1080000
Relative Standard Error: 2.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.496055	50.0	1421716.0	0.496055	Y
3	IC 280-621383/19	2.0	0.814839	50.0	1514225.0	0.40742	Y
4	IC 280-621383/18	5.0	1.865246	50.0	1505056.0	0.373049	Y
5	IC 280-621383/17	10.0	3.370121	50.0	1526132.0	0.337012	Y
6	ICIS 280-621383/16	50.0	16.426474	50.0	1619392.0	0.328529	Y
7	IC 280-621383/15	75.0	25.216871	50.0	1620318.0	0.336225	Y
8	IC 280-621383/14	100.0	34.379129	50.0	1615947.0	0.343791	Y
9	IC 280-621383/13	200.0	66.990703	50.0	1629600.0	0.334954	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

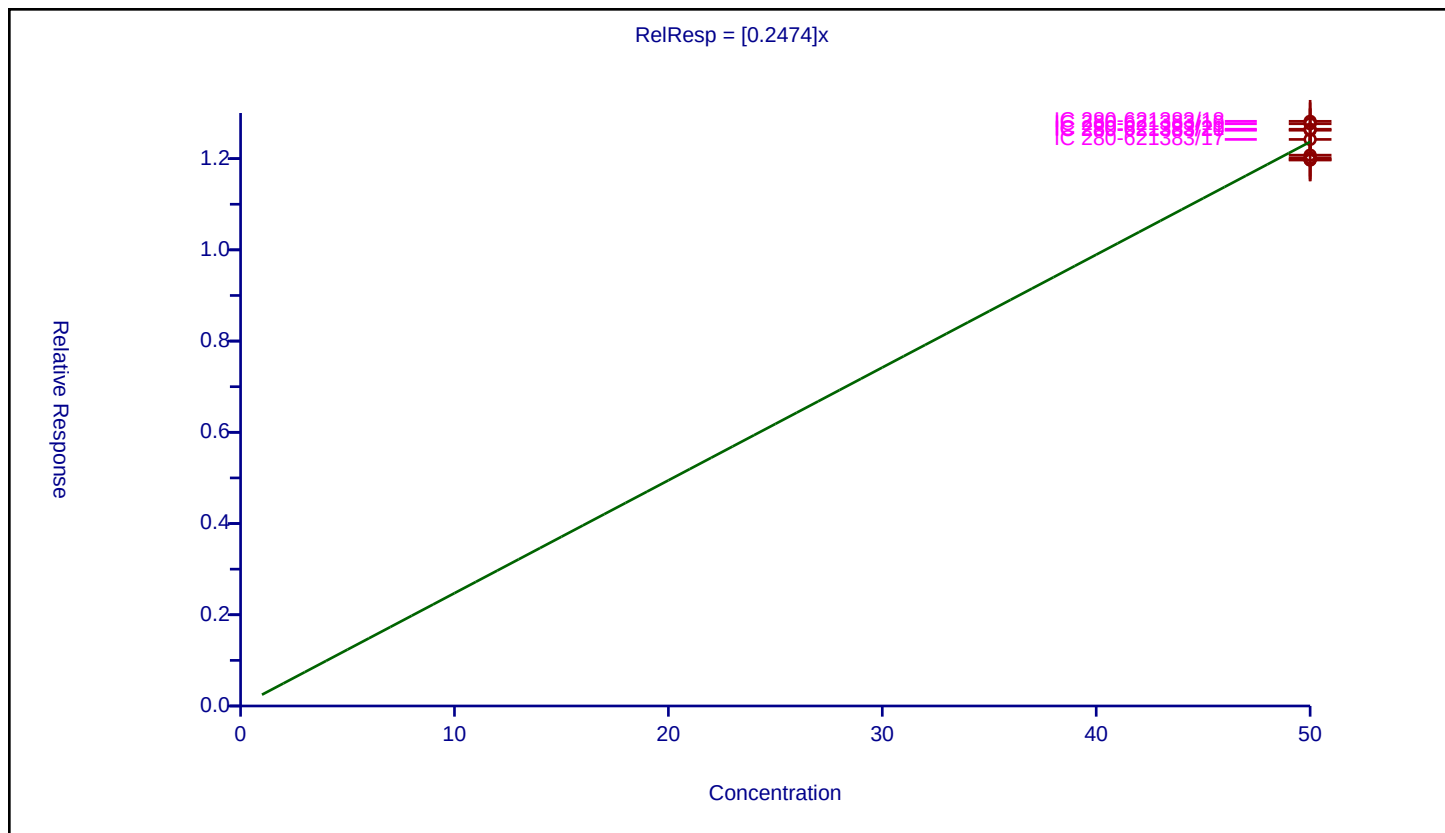
Curve Coefficients

Intercept: 0
Slope: 0.2474

Error Coefficients

Standard Error: 404000
Relative Standard Error: 2.9
Correlation Coefficient: 0.00000000000000000000
Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/13	50.0	11.979412	50.0	1629600.0	0.239588	Y
2	IC 280-621383/14	50.0	12.076139	50.0	1615947.0	0.241523	Y
3	IC 280-621383/15	50.0	11.968916	50.0	1620318.0	0.239378	Y
4	ICIS 280-621383/16	50.0	12.015806	50.0	1619392.0	0.240316	Y
5	IC 280-621383/17	50.0	12.421272	50.0	1526132.0	0.248425	Y
6	IC 280-621383/18	50.0	12.817895	50.0	1505056.0	0.256358	Y
7	IC 280-621383/19	50.0	12.76412	50.0	1514225.0	0.255282	Y
8	IC 280-621383/20	50.0	12.622422	50.0	1421716.0	0.252448	Y
9	IC 280-621383/21	50.0	12.644271	50.0	1427607.0	0.252885	Y



Calibration

/ 1,1,1-Trichloroethane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

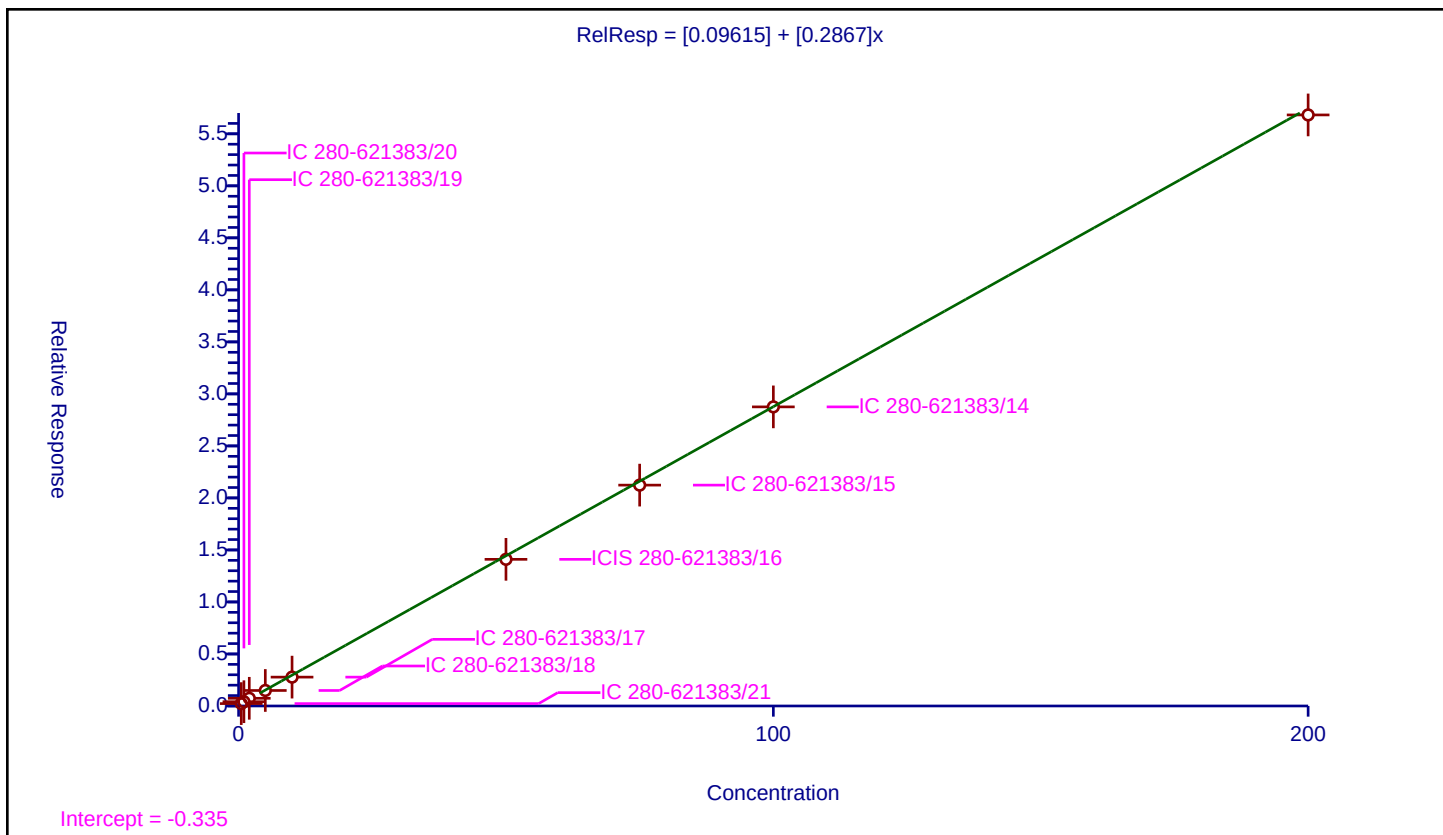
Curve Coefficients

Intercept: 0.09615
 Slope: 0.2867

Error Coefficients

Standard Error: 844000
 Relative Standard Error: 7.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.22909	50.0	1427607.0	0.458179	Y
2	IC 280-621383/20	1.0	0.411088	50.0	1421716.0	0.411088	Y
3	IC 280-621383/19	2.0	0.738662	50.0	1514225.0	0.369331	Y
4	IC 280-621383/18	5.0	1.490111	50.0	1505056.0	0.298022	Y
5	IC 280-621383/17	10.0	2.775415	50.0	1526132.0	0.277542	Y
6	ICIS 280-621383/16	50.0	14.096093	50.0	1619392.0	0.281922	Y
7	IC 280-621383/15	75.0	21.231542	50.0	1620318.0	0.283087	Y
8	IC 280-621383/14	100.0	28.751407	50.0	1615947.0	0.287514	Y
9	IC 280-621383/13	200.0	56.816151	50.0	1629600.0	0.284081	Y



Calibration

/ Cyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

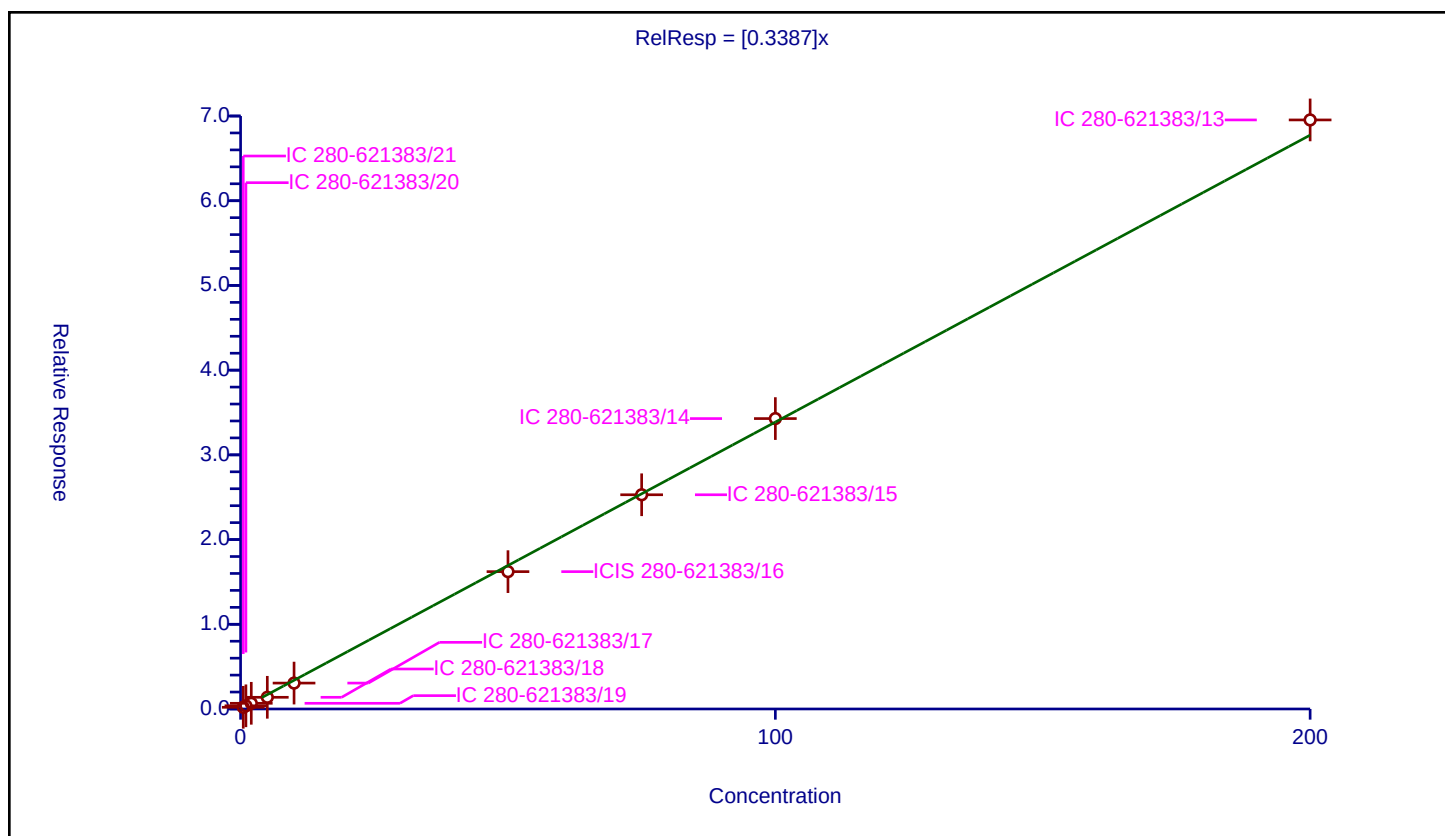
Curve Coefficients

Intercept: 0
 Slope: 0.3387

Error Coefficients

Standard Error: 957000
 Relative Standard Error: 10.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.201141	50.0	1427607.0	0.402282	Y
2	IC 280-621383/20	1.0	0.375638	50.0	1421716.0	0.375638	Y
3	IC 280-621383/19	2.0	0.672588	50.0	1514225.0	0.336294	Y
4	IC 280-621383/18	5.0	1.381875	50.0	1505056.0	0.276375	Y
5	IC 280-621383/17	10.0	3.058942	50.0	1526132.0	0.305894	Y
6	ICIS 280-621383/16	50.0	16.213616	50.0	1619392.0	0.324272	Y
7	IC 280-621383/15	75.0	25.287906	50.0	1620318.0	0.337172	Y
8	IC 280-621383/14	100.0	34.284386	50.0	1615947.0	0.342844	Y
9	IC 280-621383/13	200.0	69.535745	50.0	1629600.0	0.347679	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

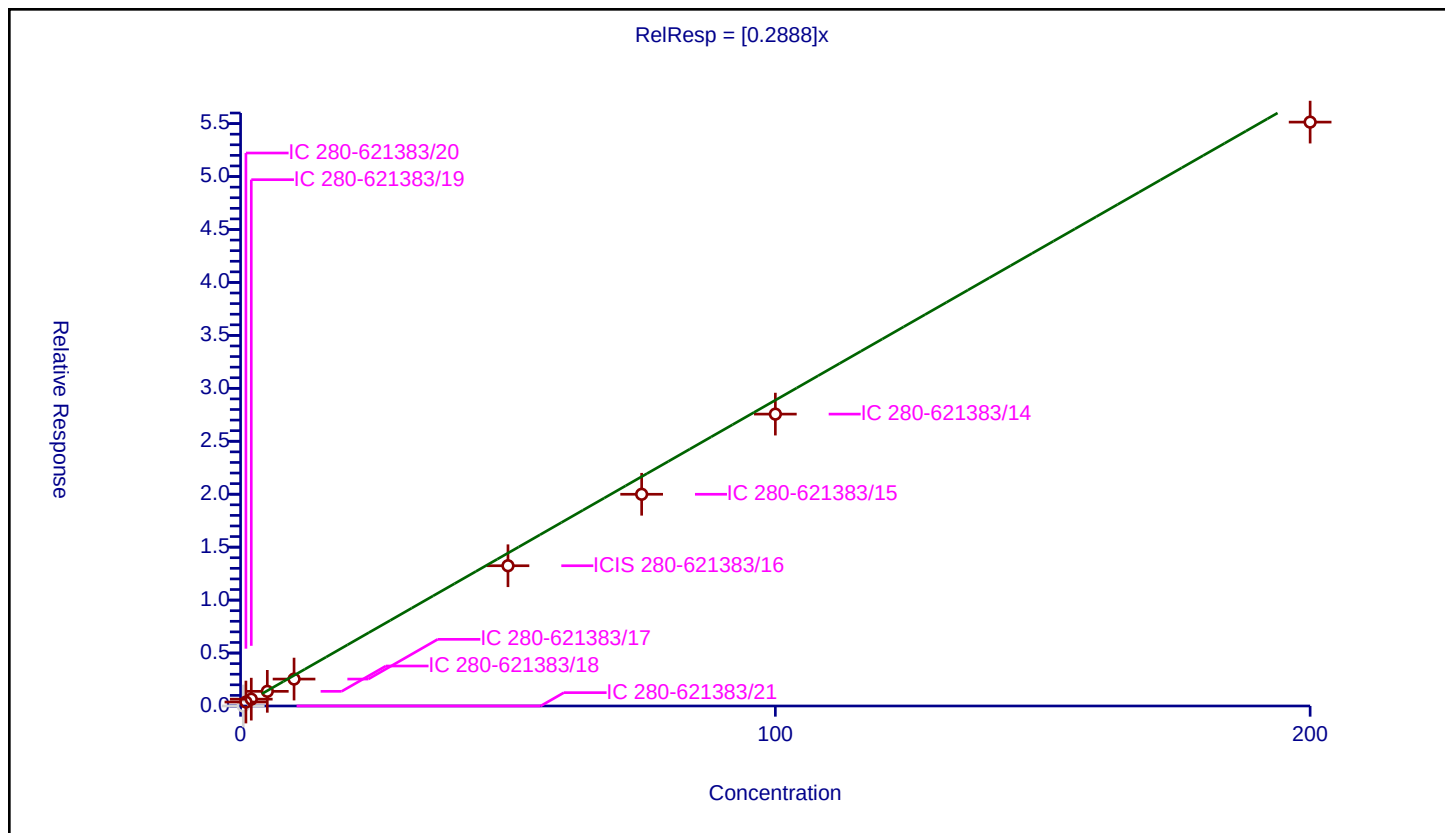
Curve Coefficients

Intercept: 0
Slope: 0.2888

Error Coefficients

Standard Error: 814000
Relative Standard Error: 13.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.373844	50.0	1421716.0	0.373844	Y
3	IC 280-621383/19	2.0	0.64571	50.0	1514225.0	0.322855	Y
4	IC 280-621383/18	5.0	1.382739	50.0	1505056.0	0.276548	Y
5	IC 280-621383/17	10.0	2.542015	50.0	1526132.0	0.254201	Y
6	ICIS 280-621383/16	50.0	13.245187	50.0	1619392.0	0.264904	Y
7	IC 280-621383/15	75.0	19.995489	50.0	1620318.0	0.266607	Y
8	IC 280-621383/14	100.0	27.565137	50.0	1615947.0	0.275651	Y
9	IC 280-621383/13	200.0	55.140832	50.0	1629600.0	0.275704	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

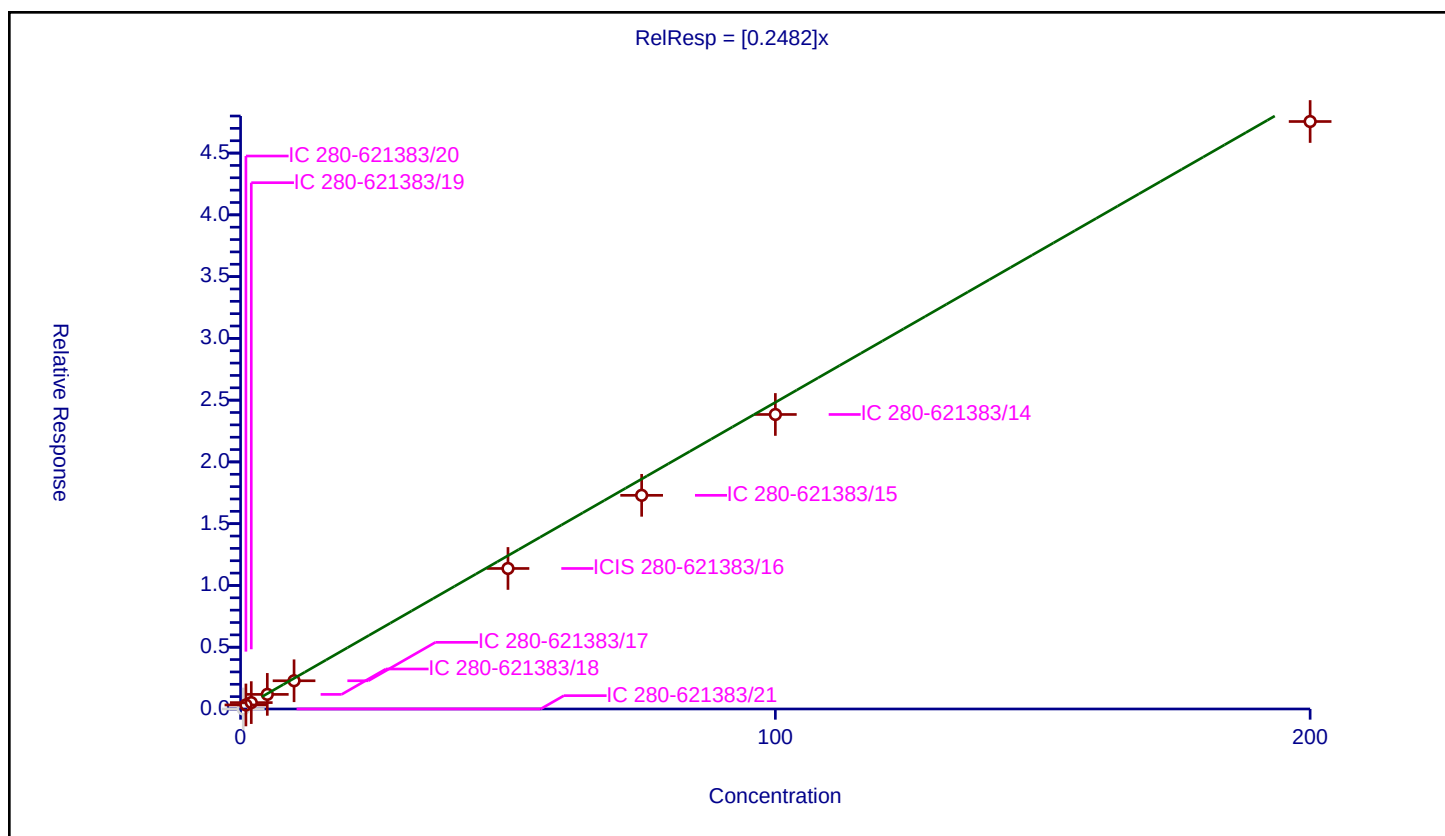
Curve Coefficients

Intercept: 0
Slope: 0.2482

Error Coefficients

Standard Error: 702000
Relative Standard Error: 13.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.328019	50.0	1421716.0	0.328019	Y
3	IC 280-621383/19	2.0	0.516766	50.0	1514225.0	0.258383	Y
4	IC 280-621383/18	5.0	1.182647	50.0	1505056.0	0.236529	Y
5	IC 280-621383/17	10.0	2.28401	50.0	1526132.0	0.228401	Y
6	ICIS 280-621383/16	50.0	11.375195	50.0	1619392.0	0.227504	Y
7	IC 280-621383/15	75.0	17.296204	50.0	1620318.0	0.230616	Y
8	IC 280-621383/14	100.0	23.840107	50.0	1615947.0	0.238401	Y
9	IC 280-621383/13	200.0	47.555504	50.0	1629600.0	0.237778	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

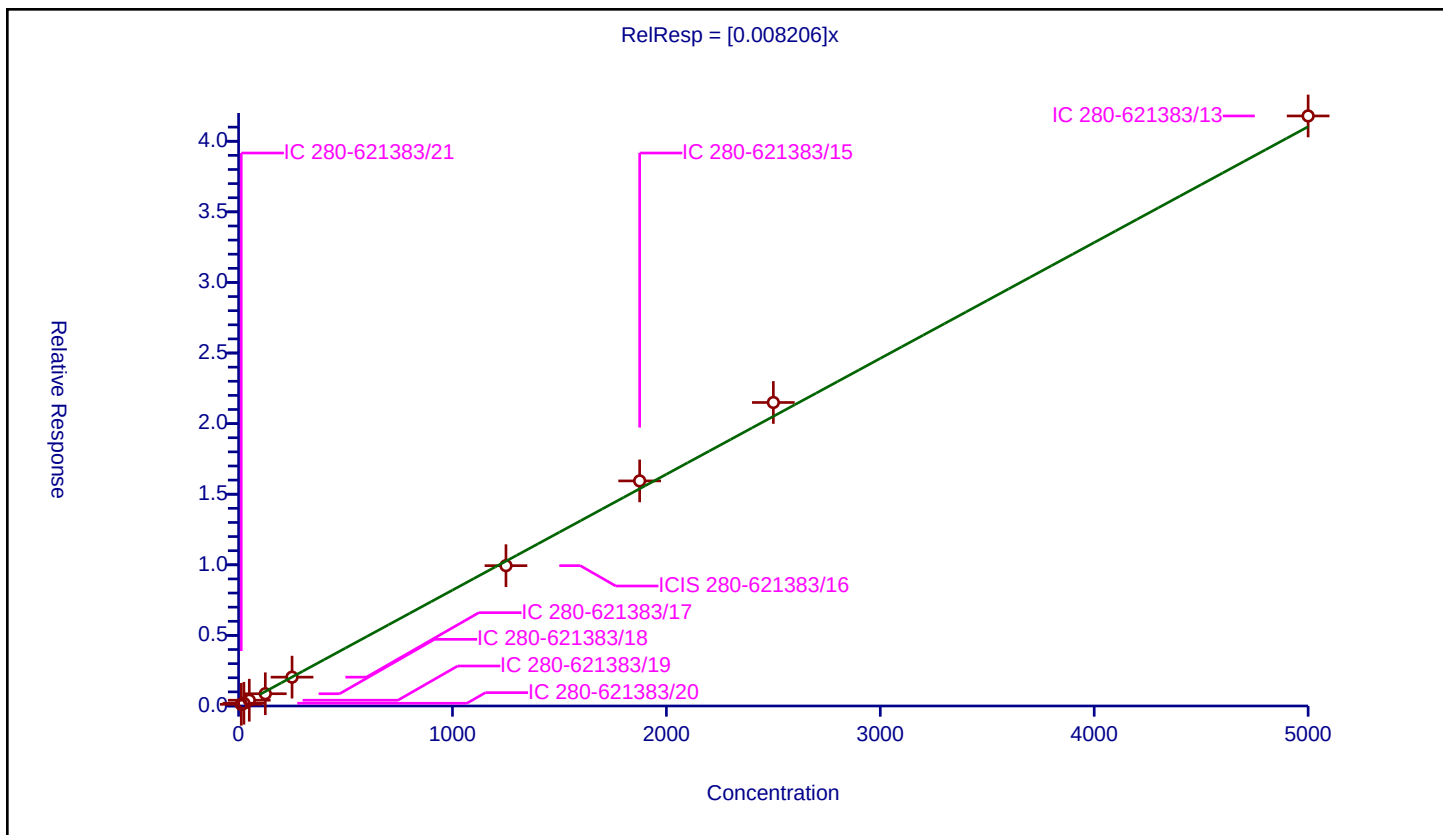
Curve Coefficients

Intercept: 0
 Slope: 0.008206

Error Coefficients

Standard Error: 582000
 Relative Standard Error: 8.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	12.5	0.117294	50.0	1427607.0	0.009384	Y
2	IC 280-621383/20	25.0	0.194343	50.0	1421716.0	0.007774	Y
3	IC 280-621383/19	50.0	0.408526	50.0	1514225.0	0.008171	Y
4	IC 280-621383/18	125.0	0.868772	50.0	1505056.0	0.00695	Y
5	IC 280-621383/17	250.0	2.041927	50.0	1526132.0	0.008168	Y
6	ICIS 280-621383/16	1250.0	9.93944	50.0	1619392.0	0.007952	Y
7	IC 280-621383/15	1875.0	15.942704	50.0	1620318.0	0.008503	Y
8	IC 280-621383/14	2500.0	21.496404	50.0	1615947.0	0.008599	Y
9	IC 280-621383/13	5000.0	41.792955	50.0	1629600.0	0.008359	Y



Calibration

/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

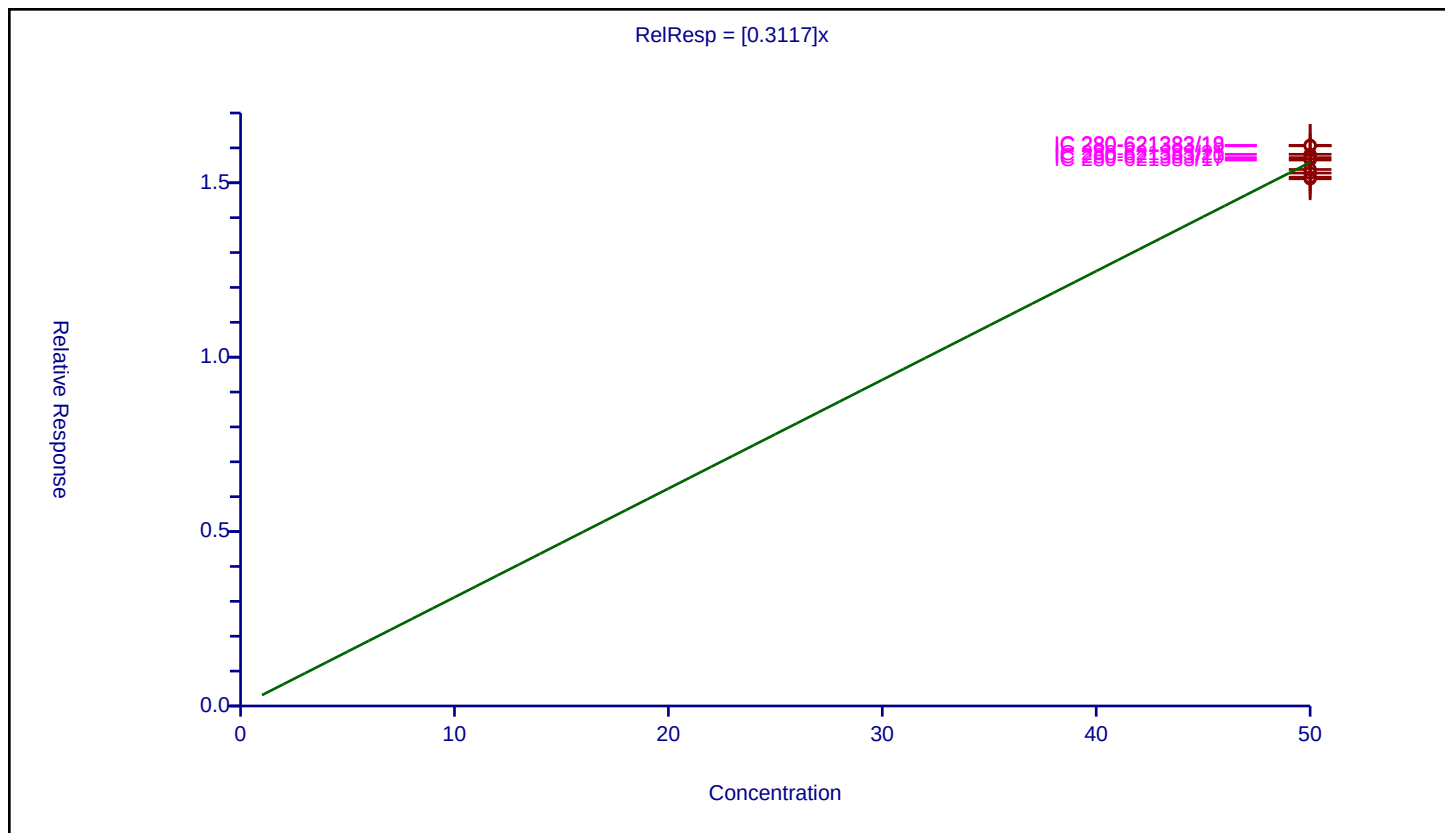
Curve Coefficients

Intercept: 0
 Slope: 0.3117

Error Coefficients

Standard Error: 510000
 Relative Standard Error: 2.4
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/13	50.0	15.113924	50.0	1629600.0	0.302278	Y
2	IC 280-621383/14	50.0	15.160924	50.0	1615947.0	0.303218	Y
3	IC 280-621383/15	50.0	15.27839	50.0	1620318.0	0.305568	Y
4	ICIS 280-621383/16	50.0	15.381853	50.0	1619392.0	0.307637	Y
5	IC 280-621383/17	50.0	15.652119	50.0	1526132.0	0.313042	Y
6	IC 280-621383/18	50.0	16.074186	50.0	1505056.0	0.321484	Y
7	IC 280-621383/19	50.0	16.059073	50.0	1514225.0	0.321181	Y
8	IC 280-621383/20	50.0	15.720756	50.0	1421716.0	0.314415	Y
9	IC 280-621383/21	50.0	15.816573	50.0	1427607.0	0.316331	Y



Calibration

/ Benzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

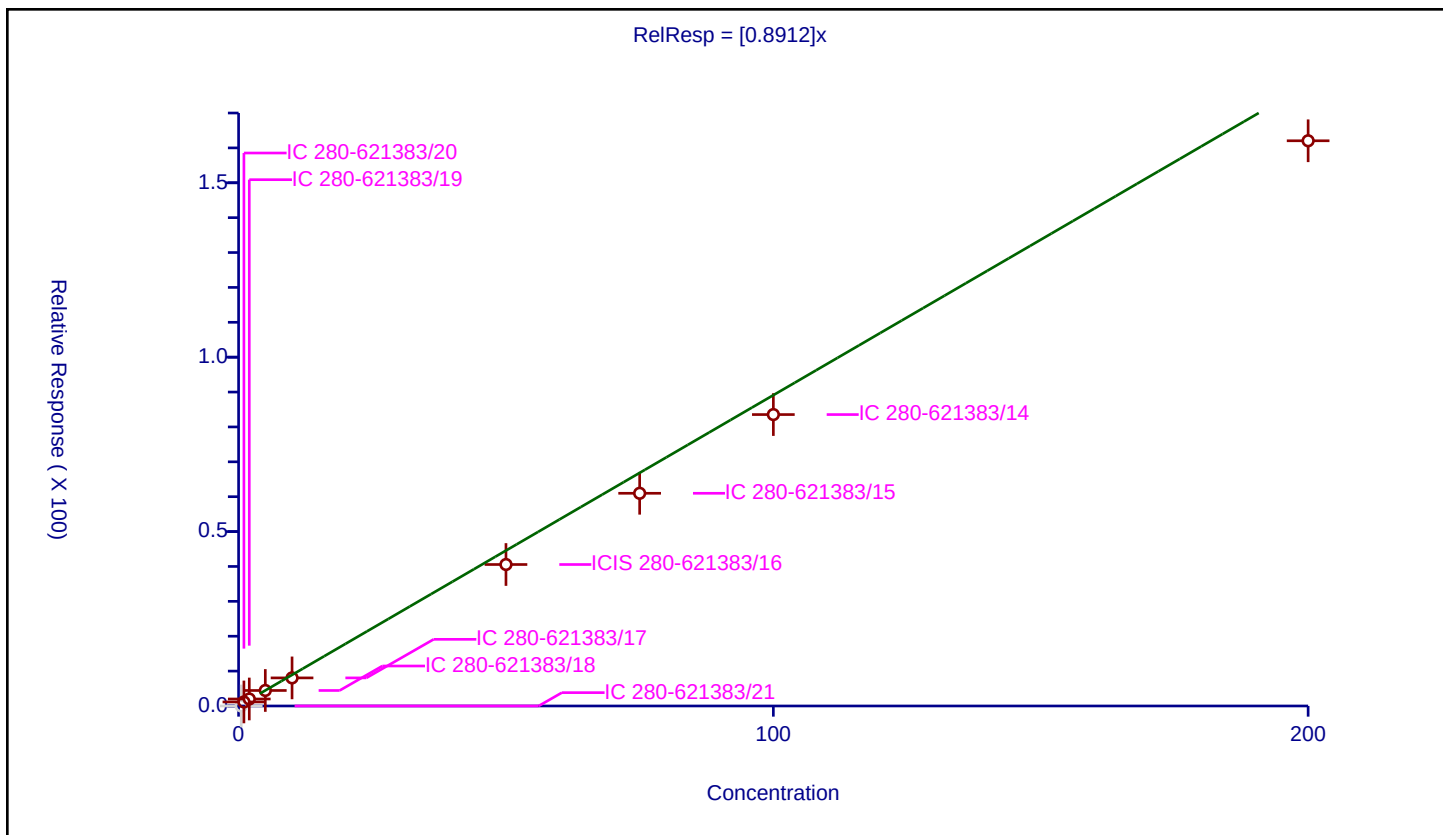
Curve Coefficients

Intercept: 0
 Slope: 0.8912

Error Coefficients

Standard Error: 2420000
 Relative Standard Error: 14.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	1.161695	50.0	1421716.0	1.161695	Y
3	IC 280-621383/19	2.0	2.00634	50.0	1514225.0	1.00317	Y
4	IC 280-621383/18	5.0	4.445981	50.0	1505056.0	0.889196	Y
5	IC 280-621383/17	10.0	8.052023	50.0	1526132.0	0.805202	Y
6	ICIS 280-621383/16	50.0	40.56473	50.0	1619392.0	0.811295	Y
7	IC 280-621383/15	75.0	60.98053	50.0	1620318.0	0.813074	Y
8	IC 280-621383/14	100.0	83.546892	50.0	1615947.0	0.835469	Y
9	IC 280-621383/13	200.0	162.043968	50.0	1629600.0	0.81022	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

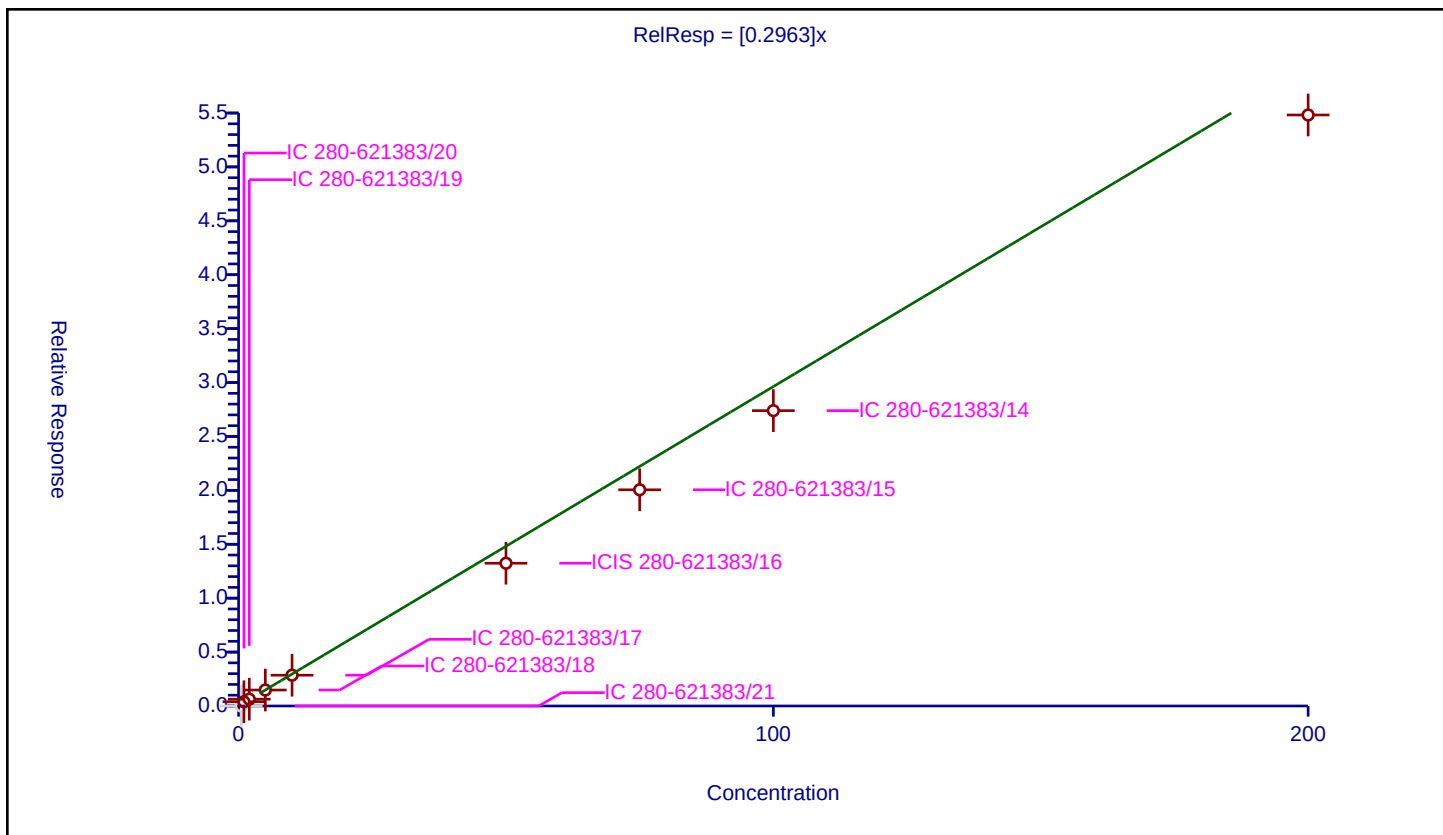
Curve Coefficients

Intercept: 0
 Slope: 0.2963

Error Coefficients

Standard Error: 810000
 Relative Standard Error: 14.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.392554	50.0	1421716.0	0.392554	Y
3	IC 280-621383/19	2.0	0.631511	50.0	1514225.0	0.315756	Y
4	IC 280-621383/18	5.0	1.480975	50.0	1505056.0	0.296195	Y
5	IC 280-621383/17	10.0	2.85457	50.0	1526132.0	0.285457	Y
6	ICIS 280-621383/16	50.0	13.242408	50.0	1619392.0	0.264848	Y
7	IC 280-621383/15	75.0	20.053965	50.0	1620318.0	0.267386	Y
8	IC 280-621383/14	100.0	27.394927	50.0	1615947.0	0.273949	Y
9	IC 280-621383/13	200.0	54.81744	50.0	1629600.0	0.274087	Y



Calibration

/ n-Heptane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

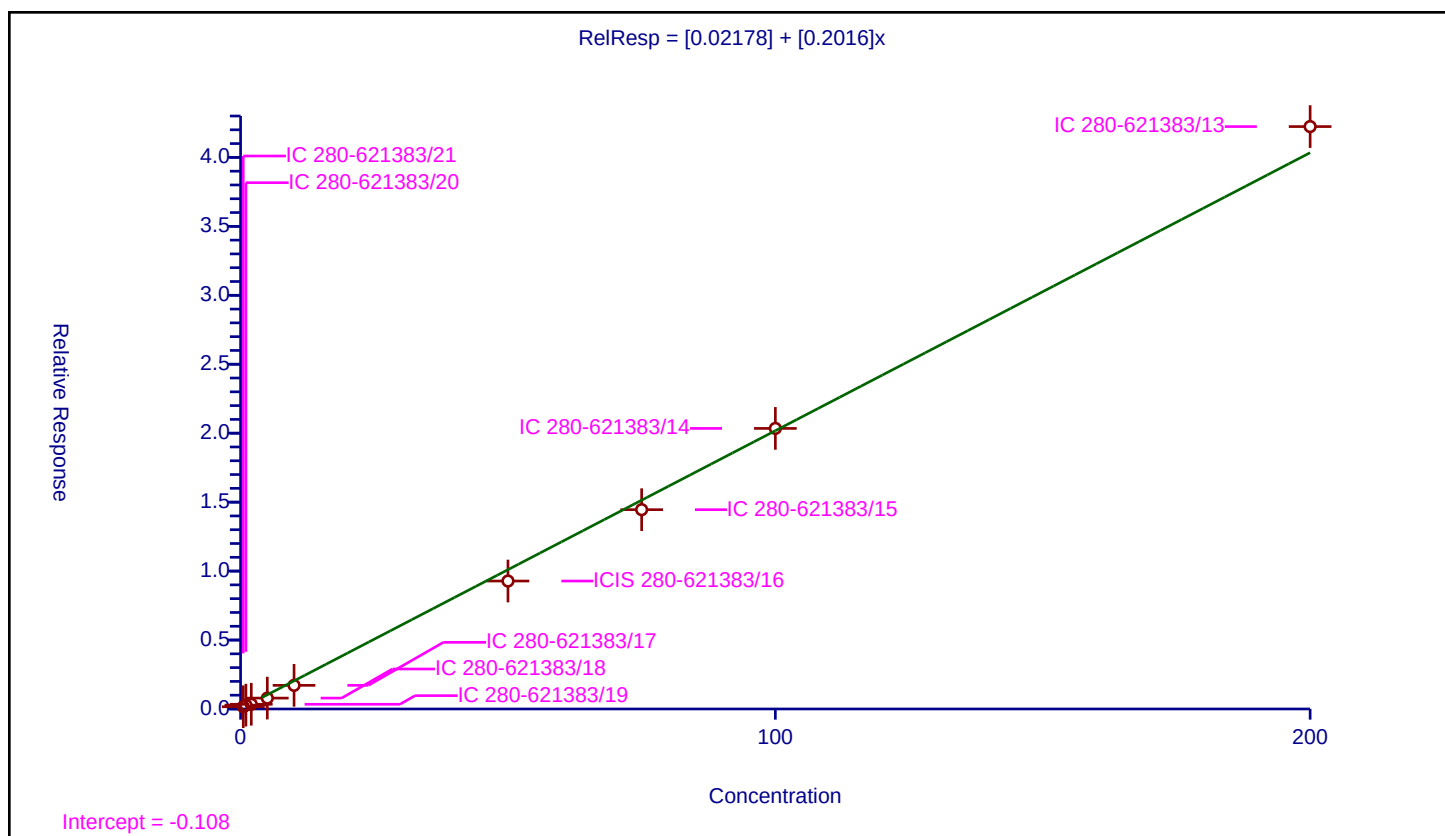
Curve Coefficients

Intercept: 0.02178
 Slope: 0.2016

Error Coefficients

Standard Error: 614000
 Relative Standard Error: 23.2
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.16293	50.0	1427607.0	0.32586	Y
2	IC 280-621383/20	1.0	0.279803	50.0	1421716.0	0.279803	Y
3	IC 280-621383/19	2.0	0.340405	50.0	1514225.0	0.170203	Y
4	IC 280-621383/18	5.0	0.789207	50.0	1505056.0	0.157841	Y
5	IC 280-621383/17	10.0	1.71476	50.0	1526132.0	0.171476	Y
6	ICIS 280-621383/16	50.0	9.279131	50.0	1619392.0	0.185583	Y
7	IC 280-621383/15	75.0	14.454724	50.0	1620318.0	0.19273	Y
8	IC 280-621383/14	100.0	20.345902	50.0	1615947.0	0.203459	Y
9	IC 280-621383/13	200.0	42.233677	50.0	1629600.0	0.211168	Y



Calibration

/ Trichloroethene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

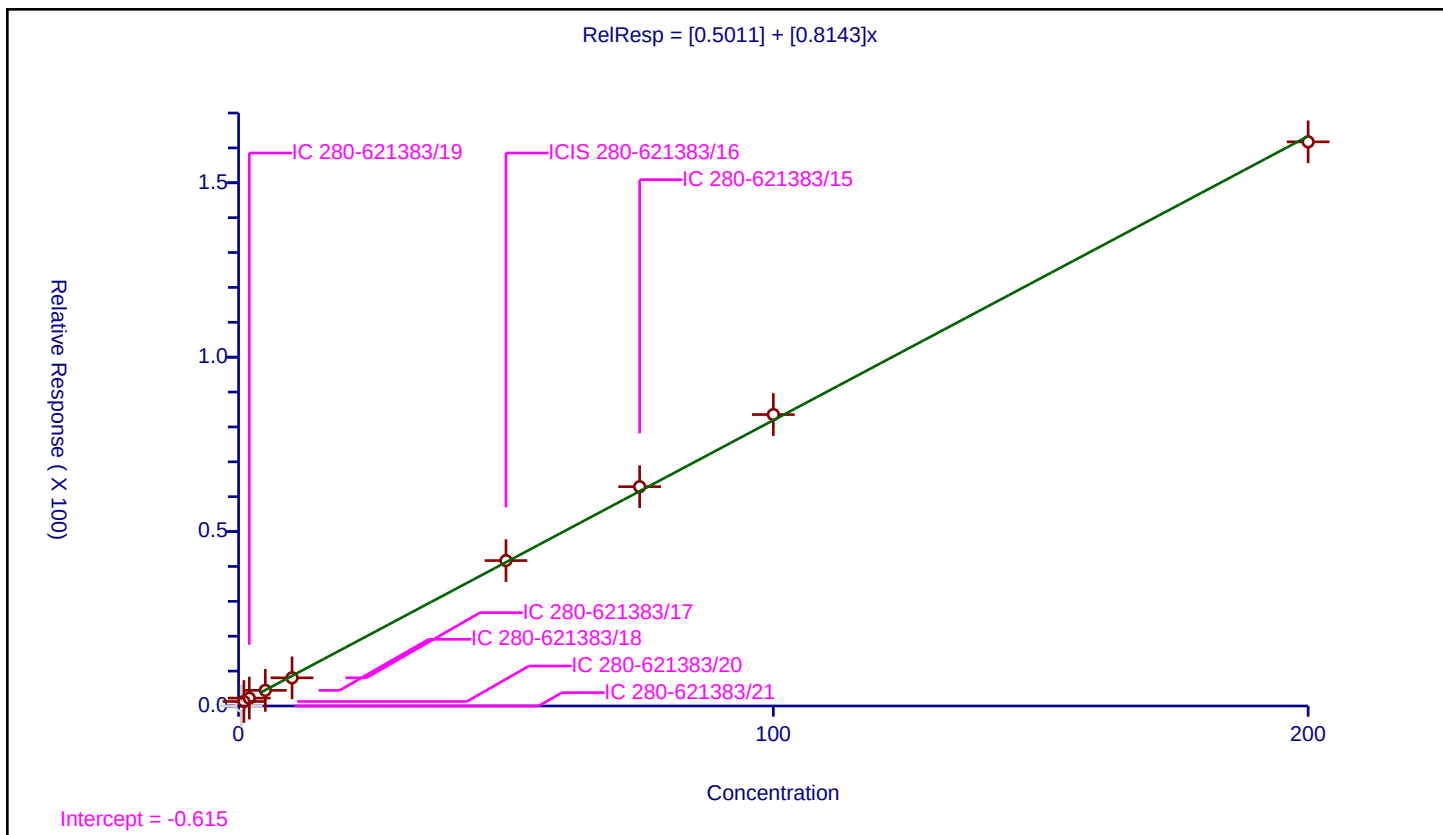
Curve Coefficients

Intercept: 0.5011
 Slope: 0.8143

Error Coefficients

Standard Error: 647000
 Relative Standard Error: 4.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	360362.0	0.0	N
2	IC 280-621383/20	1.0	1.291812	50.0	356205.0	1.291812	Y
3	IC 280-621383/19	2.0	2.259385	50.0	381387.0	1.129692	Y
4	IC 280-621383/18	5.0	4.479878	50.0	379430.0	0.895976	Y
5	IC 280-621383/17	10.0	8.06603	50.0	383553.0	0.806603	Y
6	ICIS 280-621383/16	50.0	41.687056	50.0	389086.0	0.833741	Y
7	IC 280-621383/15	75.0	62.867377	50.0	391832.0	0.838232	Y
8	IC 280-621383/14	100.0	83.551644	50.0	397216.0	0.835516	Y
9	IC 280-621383/13	200.0	161.738869	50.0	405022.0	0.808694	Y



Calibration

/ 2-Pentanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

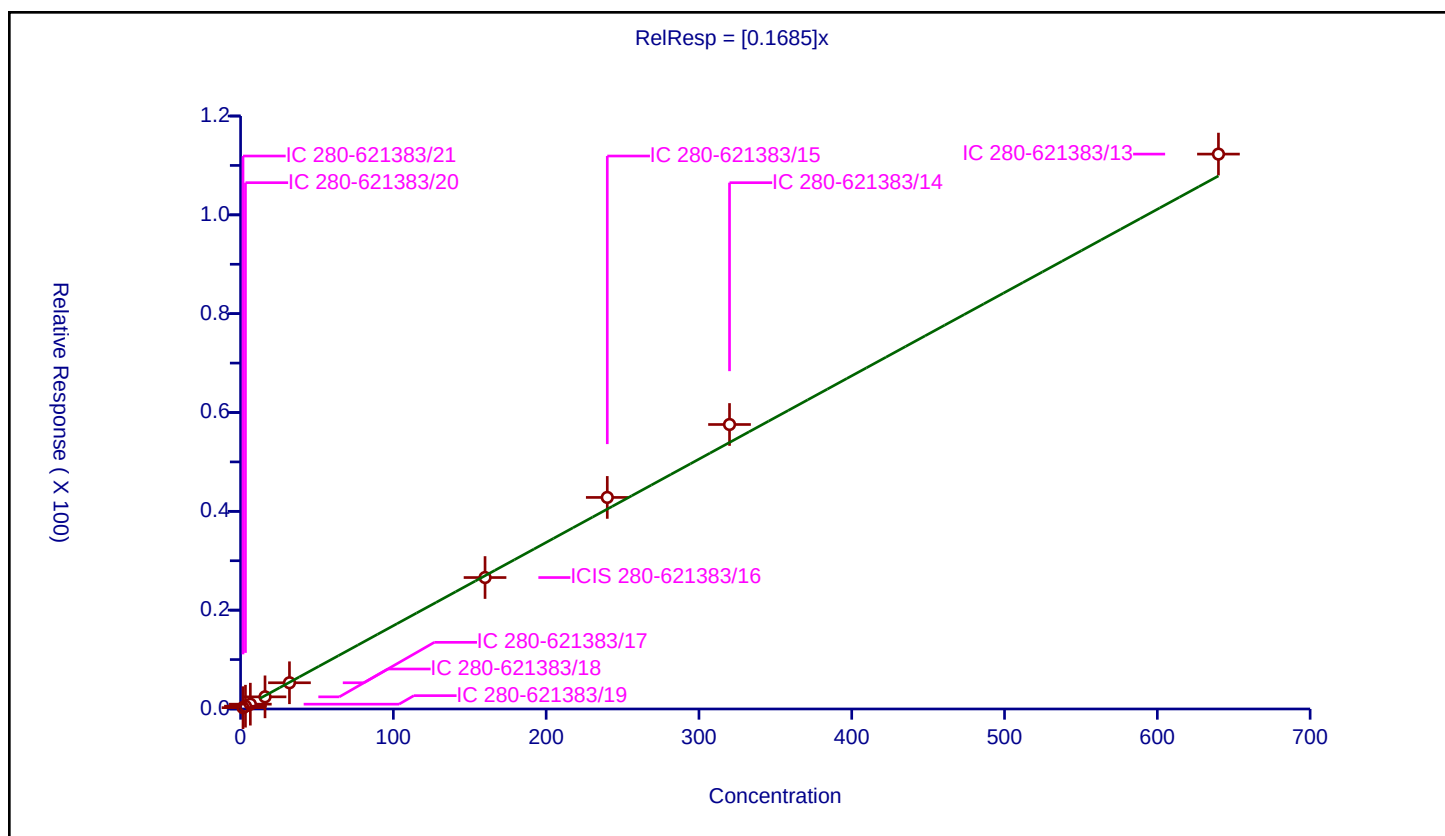
Curve Coefficients

Intercept: 0
Slope: 0.1685

Error Coefficients

Standard Error: 1560000
Relative Standard Error: 6.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	1.6	0.269752	50.0	1427607.0	0.168595	Y
2	IC 280-621383/20	3.2	0.564424	50.0	1421716.0	0.176382	Y
3	IC 280-621383/19	6.4	0.976572	50.0	1514225.0	0.152589	Y
4	IC 280-621383/18	16.0	2.456321	50.0	1505056.0	0.15352	Y
5	IC 280-621383/17	32.0	5.306717	50.0	1526132.0	0.165835	Y
6	ICIS 280-621383/16	160.0	26.602515	50.0	1619392.0	0.166266	Y
7	IC 280-621383/15	240.0	42.813695	50.0	1620318.0	0.17839	Y
8	IC 280-621383/14	320.0	57.570514	50.0	1615947.0	0.179908	Y
9	IC 280-621383/13	640.0	112.292127	50.0	1629600.0	0.175456	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

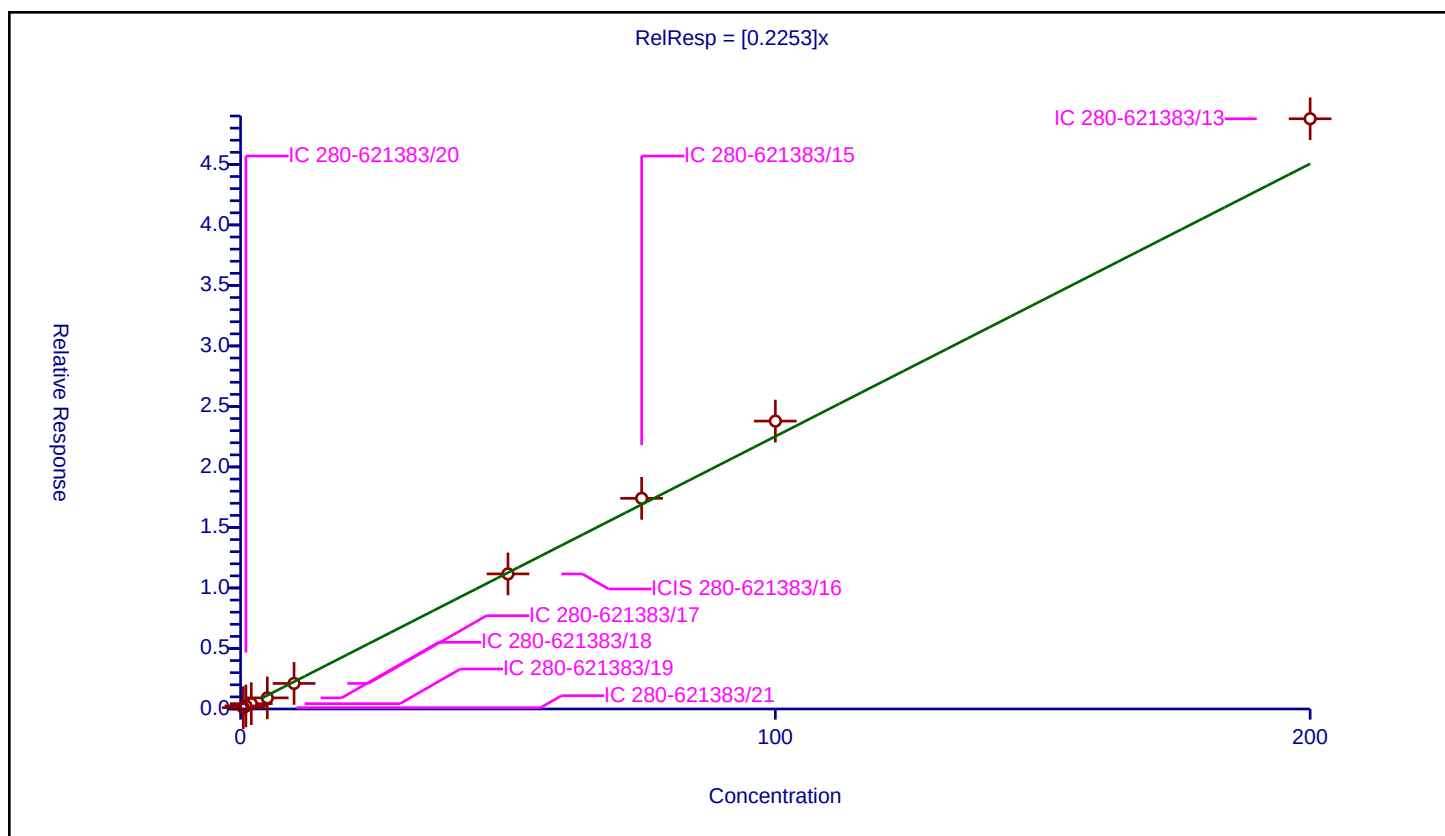
Curve Coefficients

Intercept: 0
Slope: 0.2253

Error Coefficients

Standard Error: 668000
Relative Standard Error: 8.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.112286	50.0	1427607.0	0.224572	Y
2	IC 280-621383/20	1.0	0.25107	50.0	1421716.0	0.25107	Y
3	IC 280-621383/19	2.0	0.440192	50.0	1514225.0	0.220096	Y
4	IC 280-621383/18	5.0	0.916777	50.0	1505056.0	0.183355	Y
5	IC 280-621383/17	10.0	2.111678	50.0	1526132.0	0.211168	Y
6	ICIS 280-621383/16	50.0	11.16209	50.0	1619392.0	0.223242	Y
7	IC 280-621383/15	75.0	17.407725	50.0	1620318.0	0.232103	Y
8	IC 280-621383/14	100.0	23.790817	50.0	1615947.0	0.237908	Y
9	IC 280-621383/13	200.0	48.77249	50.0	1629600.0	0.243862	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

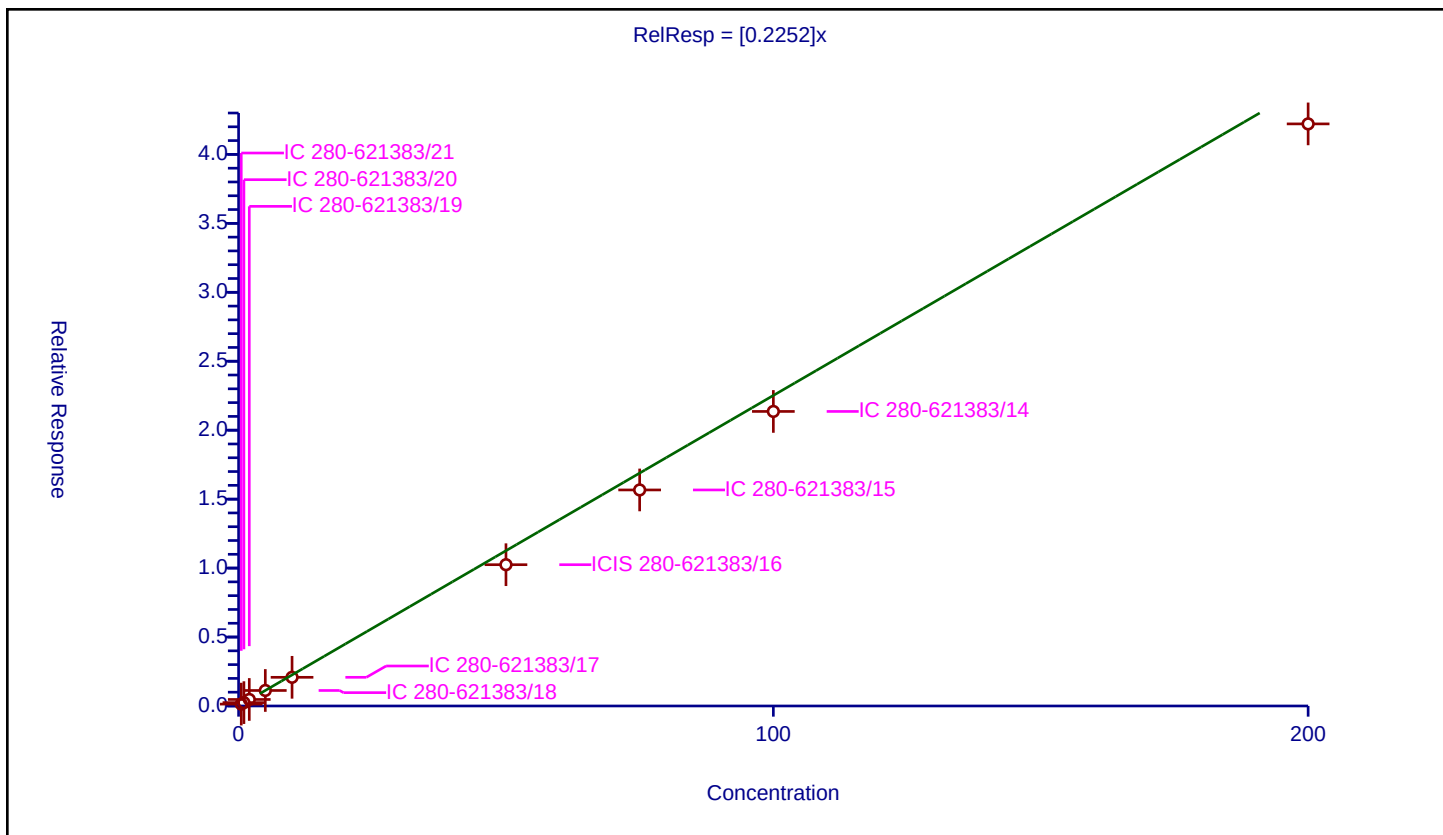
Curve Coefficients

Intercept: 0
Slope: 0.2252

Error Coefficients

Standard Error: 585000
Relative Standard Error: 10.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.136697	50.0	1427607.0	0.273395	Y
2	IC 280-621383/20	1.0	0.245302	50.0	1421716.0	0.245302	Y
3	IC 280-621383/19	2.0	0.473344	50.0	1514225.0	0.236672	Y
4	IC 280-621383/18	5.0	1.12451	50.0	1505056.0	0.224902	Y
5	IC 280-621383/17	10.0	2.079735	50.0	1526132.0	0.207973	Y
6	ICIS 280-621383/16	50.0	10.246932	50.0	1619392.0	0.204939	Y
7	IC 280-621383/15	75.0	15.666431	50.0	1620318.0	0.208886	Y
8	IC 280-621383/14	100.0	21.360045	50.0	1615947.0	0.2136	Y
9	IC 280-621383/13	200.0	42.211095	50.0	1629600.0	0.211055	Y



Calibration

/ 1,4-Dioxane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

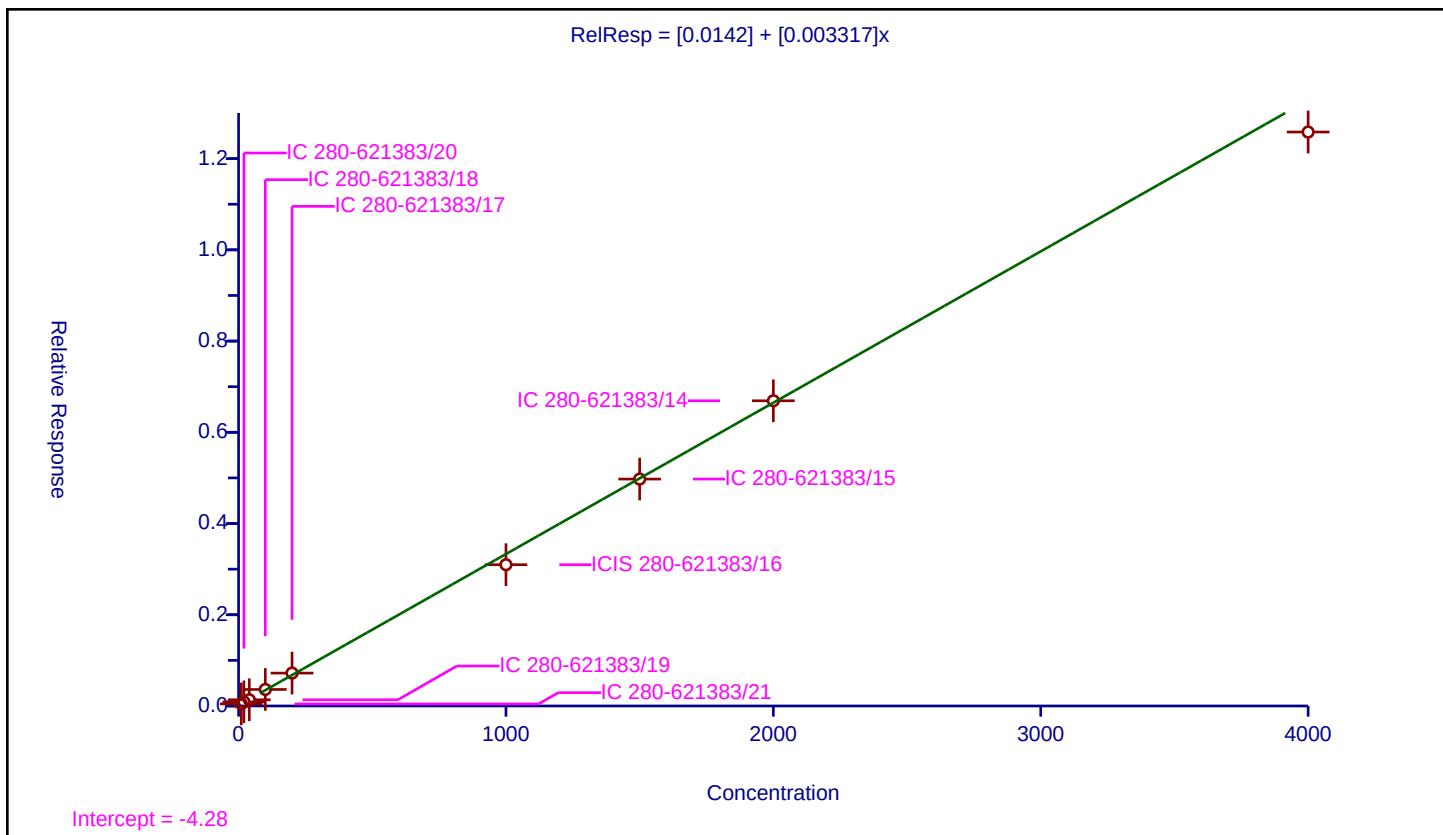
Curve Coefficients

Intercept: 0.0142
 Slope: 0.003317

Error Coefficients

Standard Error: 190000
 Relative Standard Error: 8.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	10.0	0.045391	50.0	1427607.0	0.004539	Y
2	IC 280-621383/20	20.0	0.090102	50.0	1421716.0	0.004505	Y
3	IC 280-621383/19	40.0	0.136439	50.0	1514225.0	0.003411	Y
4	IC 280-621383/18	100.0	0.362179	50.0	1505056.0	0.003622	Y
5	IC 280-621383/17	200.0	0.721071	50.0	1526132.0	0.003605	Y
6	ICIS 280-621383/16	1000.0	3.097706	50.0	1619392.0	0.003098	Y
7	IC 280-621383/15	1500.0	4.975011	50.0	1620318.0	0.003317	Y
8	IC 280-621383/14	2000.0	6.691092	50.0	1615947.0	0.003346	Y
9	IC 280-621383/13	4000.0	12.582934	50.0	1629600.0	0.003146	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

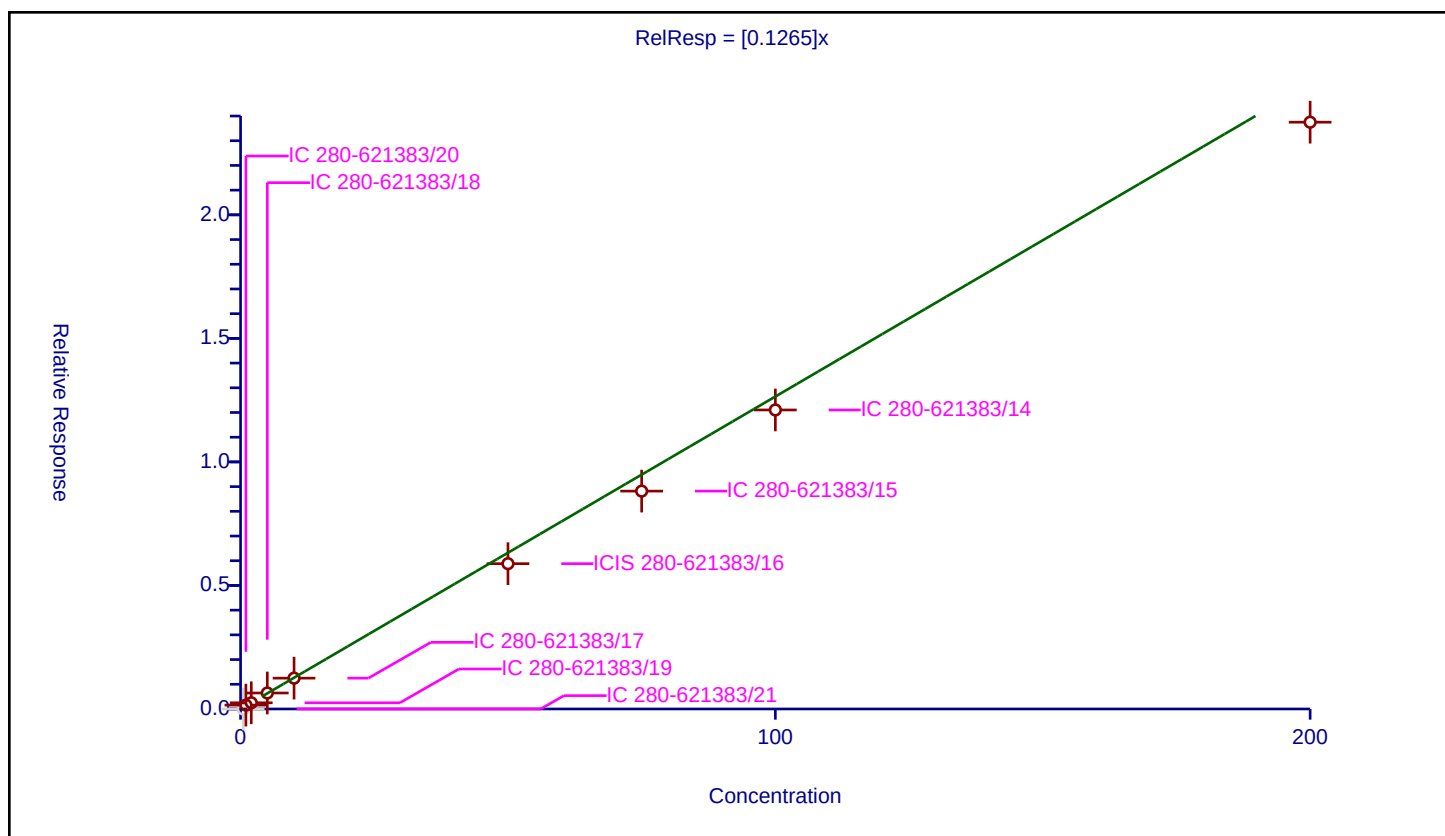
Curve Coefficients

Intercept: 0
Slope: 0.1265

Error Coefficients

Standard Error: 353000
Relative Standard Error: 10.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	1427607.0	0.0	N
2	IC 280-621383/20	1.0	0.157029	50.0	1421716.0	0.157029	Y
3	IC 280-621383/19	2.0	0.251086	50.0	1514225.0	0.125543	Y
4	IC 280-621383/18	5.0	0.646787	50.0	1505056.0	0.129357	Y
5	IC 280-621383/17	10.0	1.247861	50.0	1526132.0	0.124786	Y
6	ICIS 280-621383/16	50.0	5.881312	50.0	1619392.0	0.117626	Y
7	IC 280-621383/15	75.0	8.818269	50.0	1620318.0	0.117577	Y
8	IC 280-621383/14	100.0	12.103243	50.0	1615947.0	0.121032	Y
9	IC 280-621383/13	200.0	23.749172	50.0	1629600.0	0.118746	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

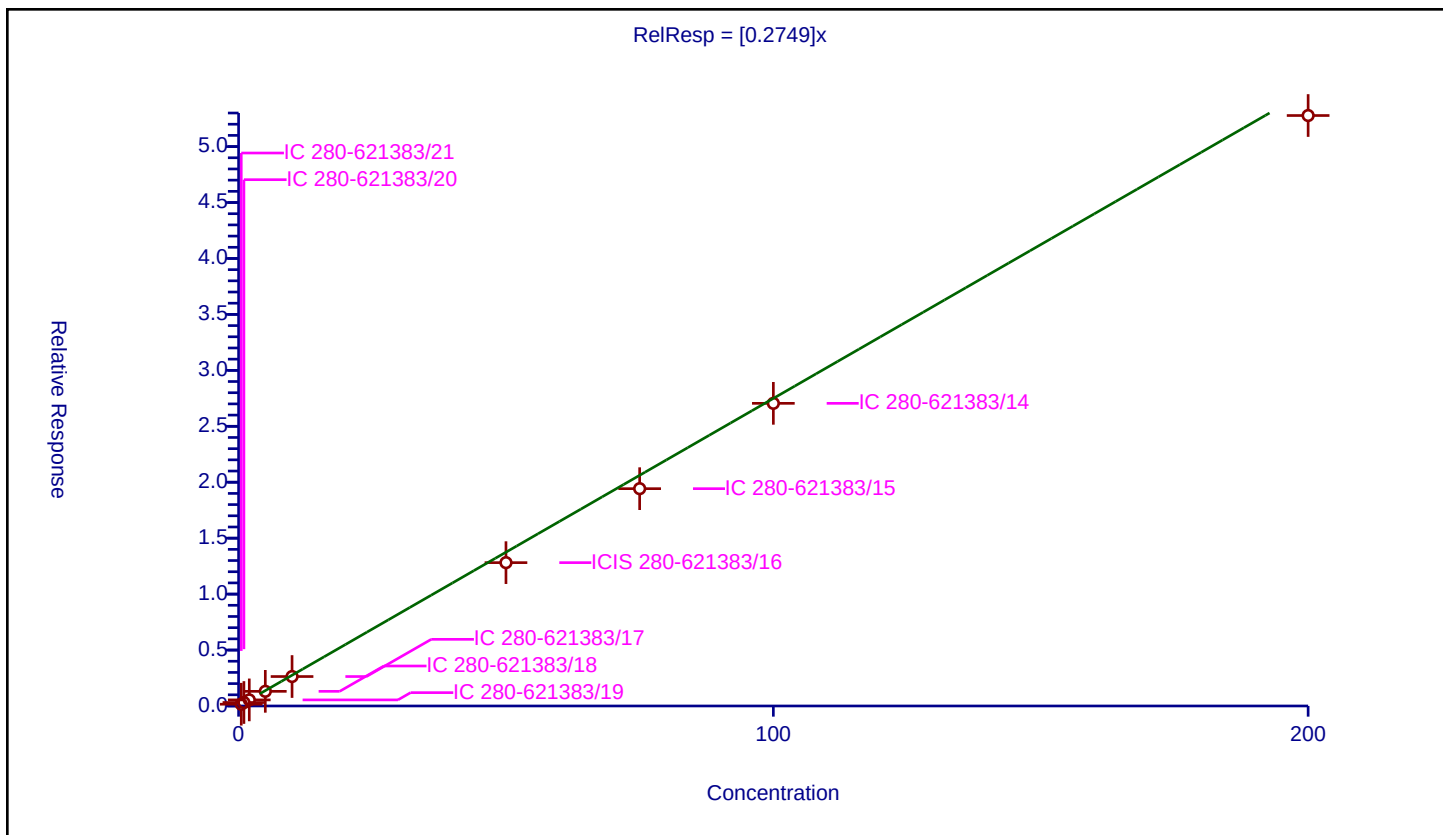
Curve Coefficients

Intercept: 0
Slope: 0.2749

Error Coefficients

Standard Error: 733000
Relative Standard Error: 8.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.157852	50.0	1427607.0	0.315703	Y
2	IC 280-621383/20	1.0	0.311525	50.0	1421716.0	0.311525	Y
3	IC 280-621383/19	2.0	0.54447	50.0	1514225.0	0.272235	Y
4	IC 280-621383/18	5.0	1.309353	50.0	1505056.0	0.261871	Y
5	IC 280-621383/17	10.0	2.633226	50.0	1526132.0	0.263323	Y
6	ICIS 280-621383/16	50.0	12.811351	50.0	1619392.0	0.256227	Y
7	IC 280-621383/15	75.0	19.424428	50.0	1620318.0	0.258992	Y
8	IC 280-621383/14	100.0	27.050918	50.0	1615947.0	0.270509	Y
9	IC 280-621383/13	200.0	52.775068	50.0	1629600.0	0.263875	Y



Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

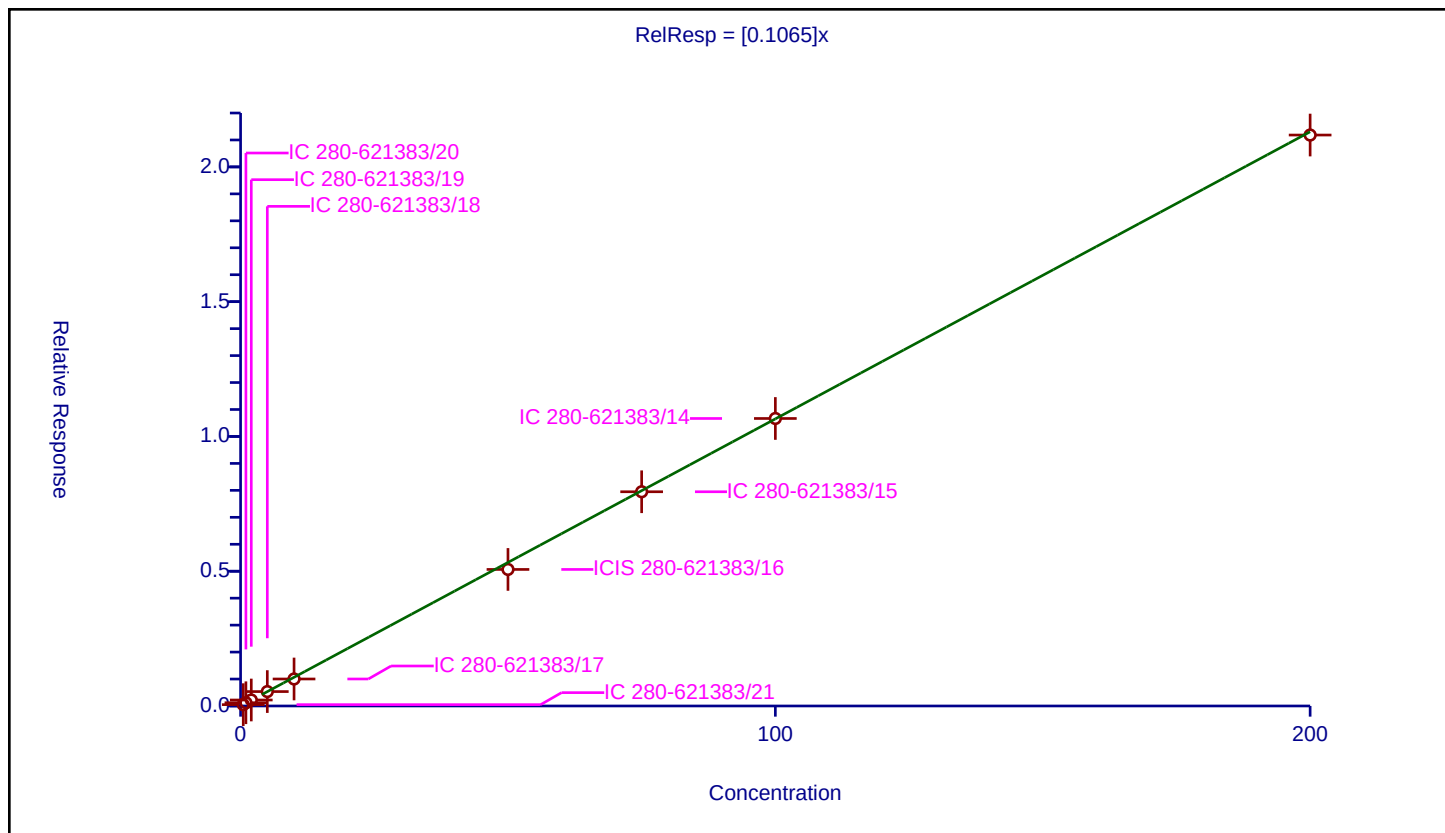
Curve Coefficients

Intercept: 0
 Slope: 0.1065

Error Coefficients

Standard Error: 294000
 Relative Standard Error: 6.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.050014	50.0	1427607.0	0.100028	Y
2	IC 280-621383/20	1.0	0.120664	50.0	1421716.0	0.120664	Y
3	IC 280-621383/19	2.0	0.221797	50.0	1514225.0	0.110898	Y
4	IC 280-621383/18	5.0	0.534997	50.0	1505056.0	0.106999	Y
5	IC 280-621383/17	10.0	1.001683	50.0	1526132.0	0.100168	Y
6	ICIS 280-621383/16	50.0	5.066222	50.0	1619392.0	0.101324	Y
7	IC 280-621383/15	75.0	7.948255	50.0	1620318.0	0.105977	Y
8	IC 280-621383/14	100.0	10.667182	50.0	1615947.0	0.106672	Y
9	IC 280-621383/13	200.0	21.182683	50.0	1629600.0	0.105913	Y



Calibration

/ cis-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

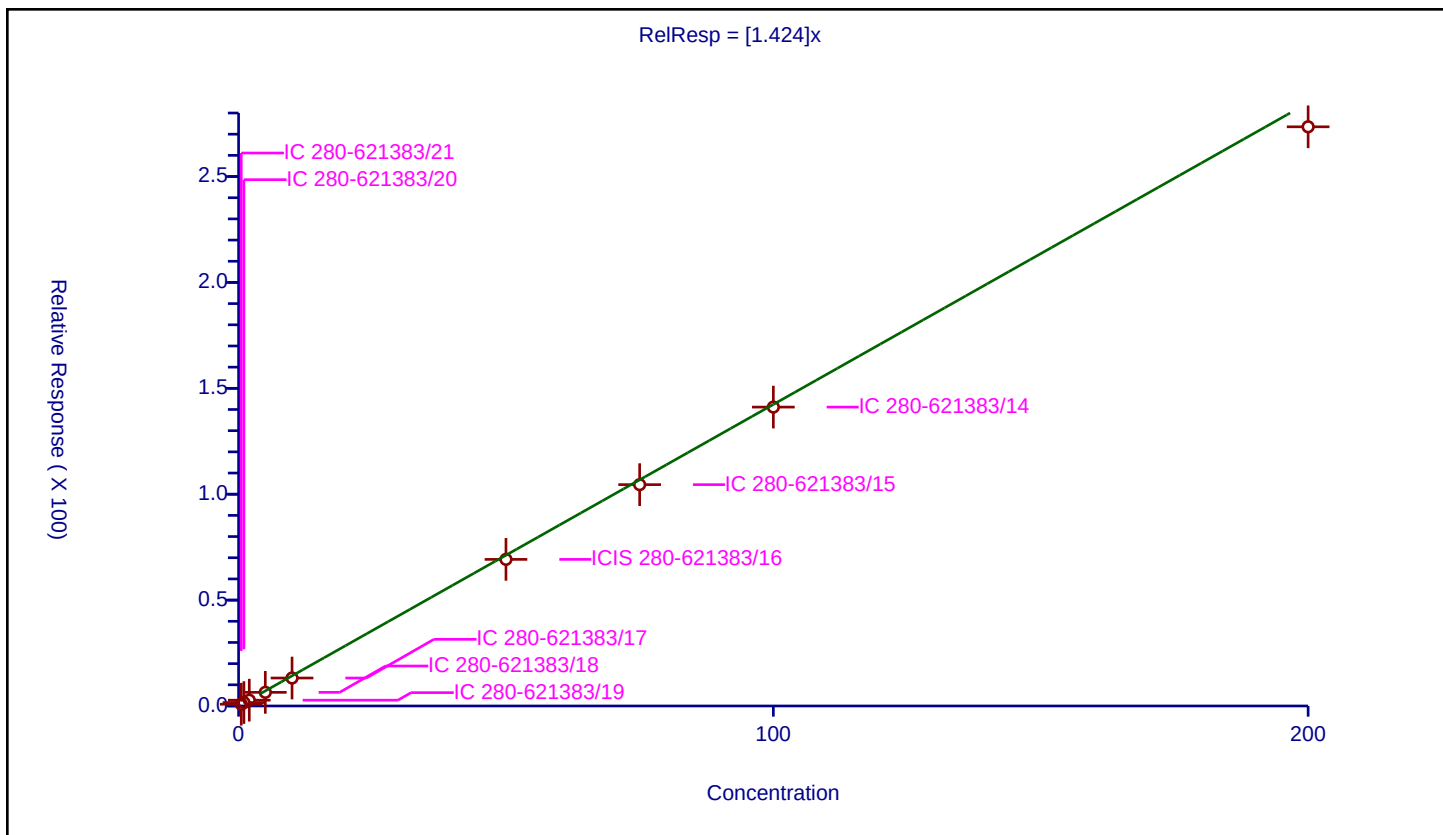
Curve Coefficients

Intercept: 0
 Slope: 1.424

Error Coefficients

Standard Error: 945000
 Relative Standard Error: 9.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.830692	50.0	360362.0	1.661385	Y
2	IC 280-621383/20	1.0	1.617608	50.0	356205.0	1.617608	Y
3	IC 280-621383/19	2.0	2.743014	50.0	381387.0	1.371507	Y
4	IC 280-621383/18	5.0	6.442031	50.0	379430.0	1.288406	Y
5	IC 280-621383/17	10.0	13.198306	50.0	383553.0	1.319831	Y
6	ICIS 280-621383/16	50.0	69.229039	50.0	389086.0	1.384581	Y
7	IC 280-621383/15	75.0	104.522474	50.0	391832.0	1.393633	Y
8	IC 280-621383/14	100.0	141.141973	50.0	397216.0	1.41142	Y
9	IC 280-621383/13	200.0	273.493662	50.0	405022.0	1.367468	Y



Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

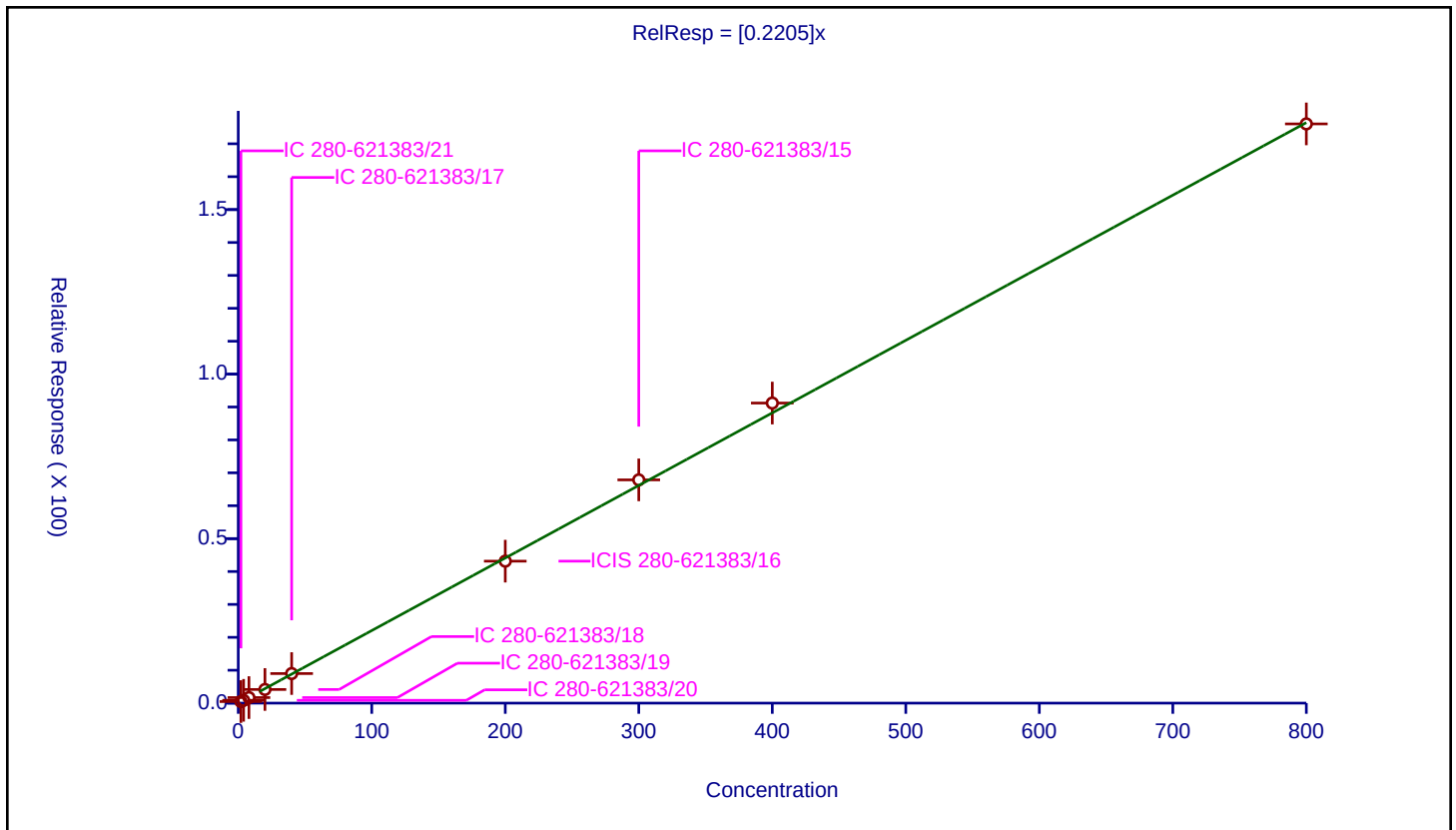
Curve Coefficients

Intercept: 0
 Slope: 0.2205

Error Coefficients

Standard Error: 2460000
 Relative Standard Error: 4.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	2.0	0.475761	50.0	1427607.0	0.237881	Y
2	IC 280-621383/20	4.0	0.857872	50.0	1421716.0	0.214468	Y
3	IC 280-621383/19	8.0	1.684162	50.0	1514225.0	0.21052	Y
4	IC 280-621383/18	20.0	4.147022	50.0	1505056.0	0.207351	Y
5	IC 280-621383/17	40.0	8.988017	50.0	1526132.0	0.2247	Y
6	ICIS 280-621383/16	200.0	43.150917	50.0	1619392.0	0.215755	Y
7	IC 280-621383/15	300.0	67.851249	50.0	1620318.0	0.226171	Y
8	IC 280-621383/14	400.0	91.19606	50.0	1615947.0	0.22799	Y
9	IC 280-621383/13	800.0	176.042127	50.0	1629600.0	0.220053	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

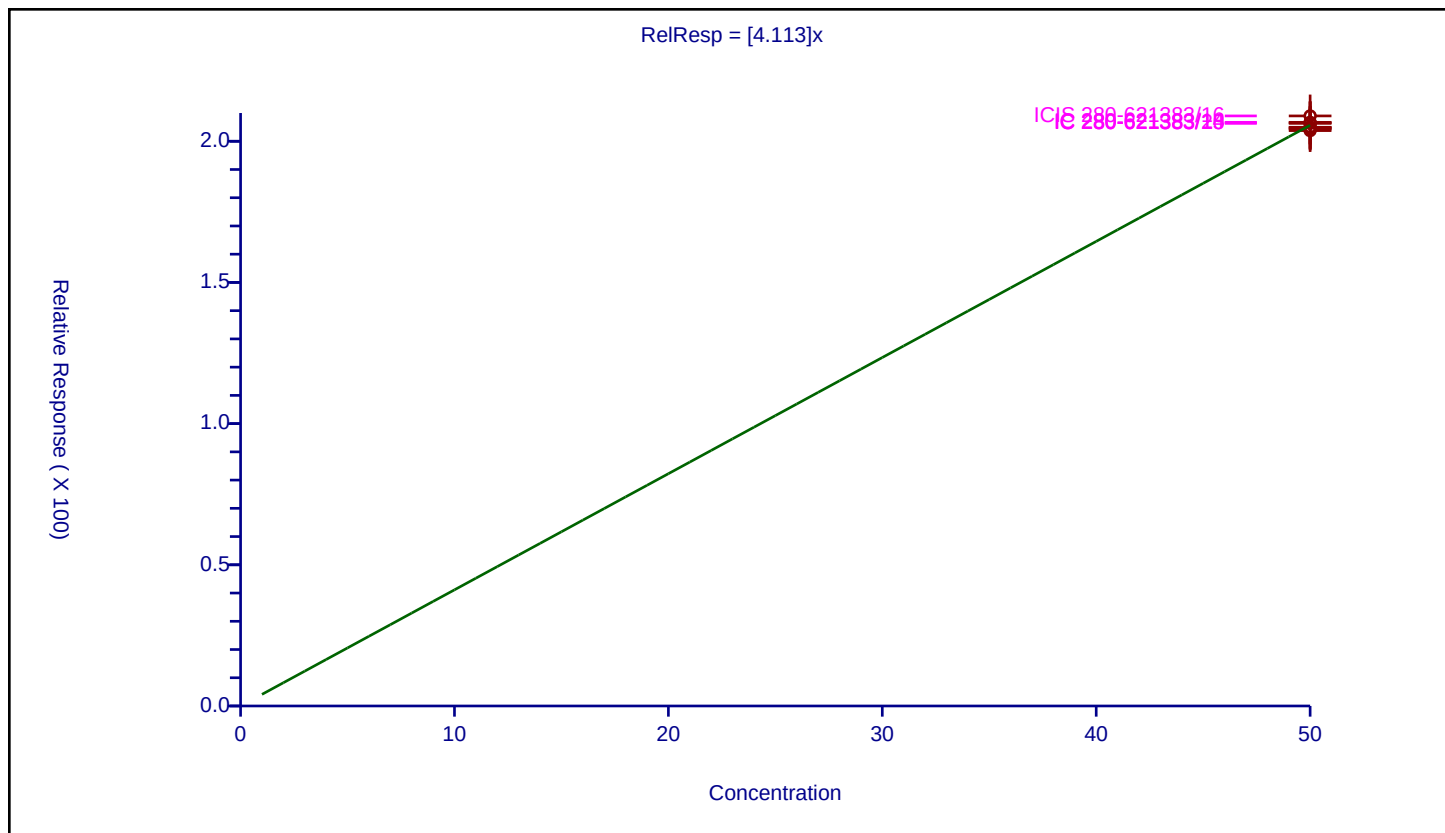
Curve Coefficients

Intercept: 0
 Slope: 4.113

Error Coefficients

Standard Error: 1670000
 Relative Standard Error: 0.8
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0.0000000000000000222

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/13	50.0	204.958249	50.0	405022.0	4.099165	Y
2	IC 280-621383/14	50.0	206.703028	50.0	397216.0	4.134061	Y
3	IC 280-621383/15	50.0	206.332306	50.0	391832.0	4.126646	Y
4	ICIS 280-621383/16	50.0	208.972823	50.0	389086.0	4.179456	Y
5	IC 280-621383/17	50.0	203.765842	50.0	383553.0	4.075317	Y
6	IC 280-621383/18	50.0	204.322405	50.0	379430.0	4.086448	Y
7	IC 280-621383/19	50.0	204.888866	50.0	381387.0	4.097777	Y
8	IC 280-621383/20	50.0	206.554793	50.0	356205.0	4.131096	Y
9	IC 280-621383/21	50.0	204.561385	50.0	360362.0	4.091228	Y



Calibration

/ Toluene

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

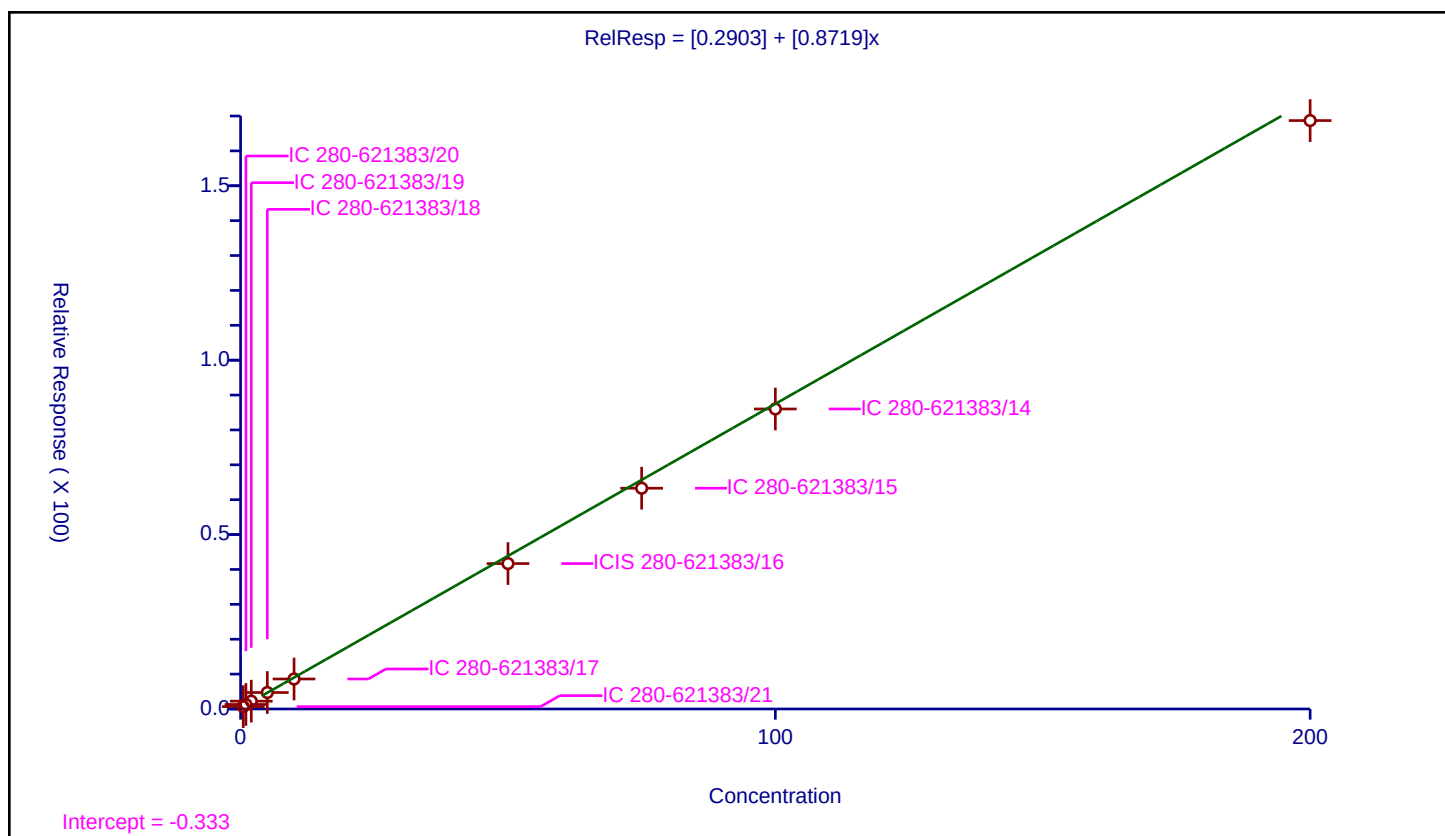
Curve Coefficients

Intercept: 0.2903
Slope: 0.8719

Error Coefficients

Standard Error: 2510000
Relative Standard Error: 9.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.680369	50.0	1427607.0	1.360739	Y
2	IC 280-621383/20	1.0	1.295406	50.0	1421716.0	1.295406	Y
3	IC 280-621383/19	2.0	2.246793	50.0	1514225.0	1.123396	Y
4	IC 280-621383/18	5.0	4.718329	50.0	1505056.0	0.943666	Y
5	IC 280-621383/17	10.0	8.597618	50.0	1526132.0	0.859762	Y
6	ICIS 280-621383/16	50.0	41.69571	50.0	1619392.0	0.833914	Y
7	IC 280-621383/15	75.0	63.291434	50.0	1620318.0	0.843886	Y
8	IC 280-621383/14	100.0	86.009071	50.0	1615947.0	0.860091	Y
9	IC 280-621383/13	200.0	168.689372	50.0	1629600.0	0.843447	Y



Calibration

/ trans-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

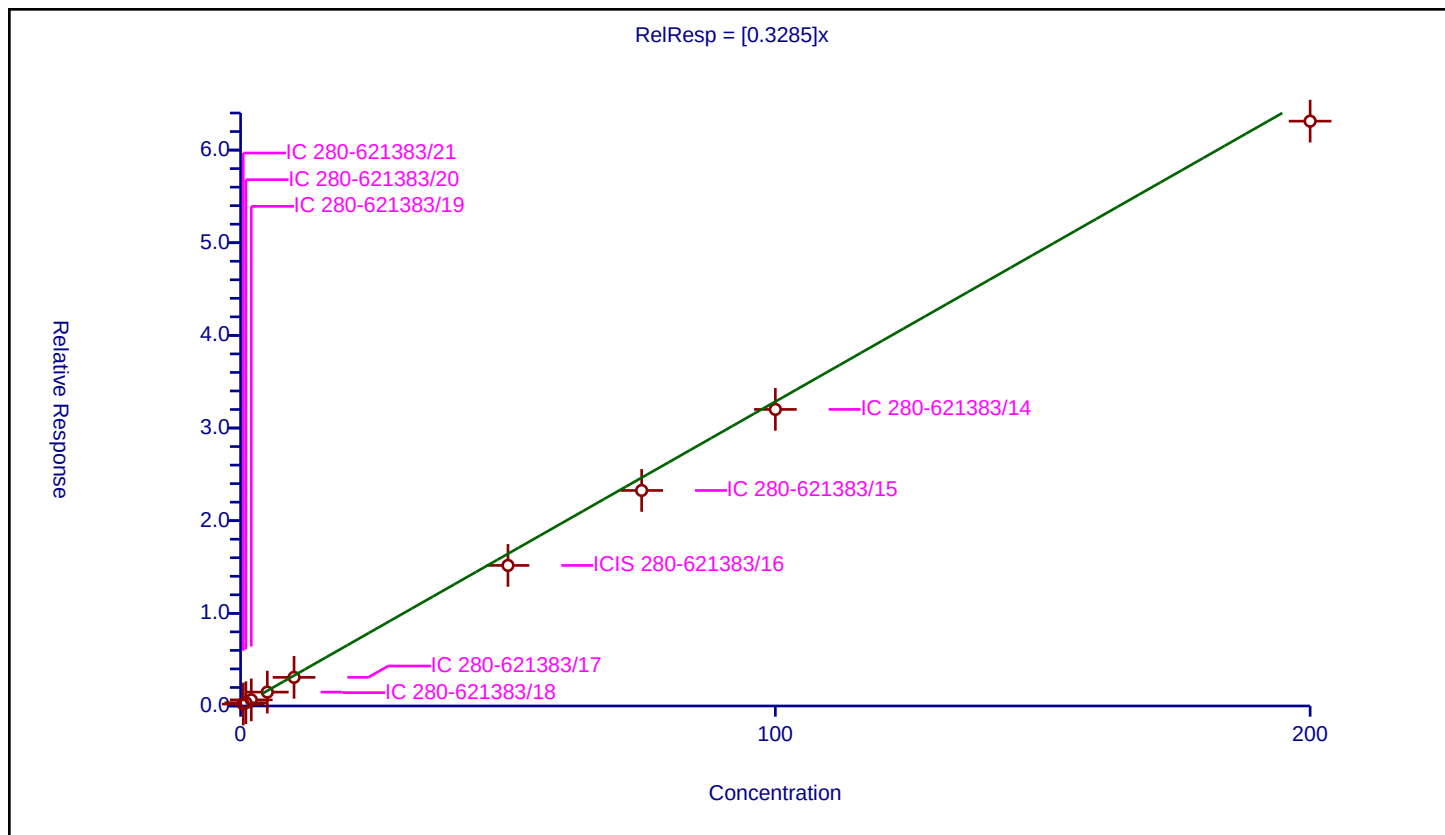
Curve Coefficients

Intercept: 0
Slope: 0.3285

Error Coefficients

Standard Error: 875000
Relative Standard Error: 11.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.2079	50.0	1427607.0	0.415801	Y
2	IC 280-621383/20	1.0	0.353305	50.0	1421716.0	0.353305	Y
3	IC 280-621383/19	2.0	0.659347	50.0	1514225.0	0.329674	Y
4	IC 280-621383/18	5.0	1.498615	50.0	1505056.0	0.299723	Y
5	IC 280-621383/17	10.0	3.090198	50.0	1526132.0	0.30902	Y
6	ICIS 280-621383/16	50.0	15.171929	50.0	1619392.0	0.303439	Y
7	IC 280-621383/15	75.0	23.263859	50.0	1620318.0	0.310185	Y
8	IC 280-621383/14	100.0	32.007919	50.0	1615947.0	0.320079	Y
9	IC 280-621383/13	200.0	63.12319	50.0	1629600.0	0.315616	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

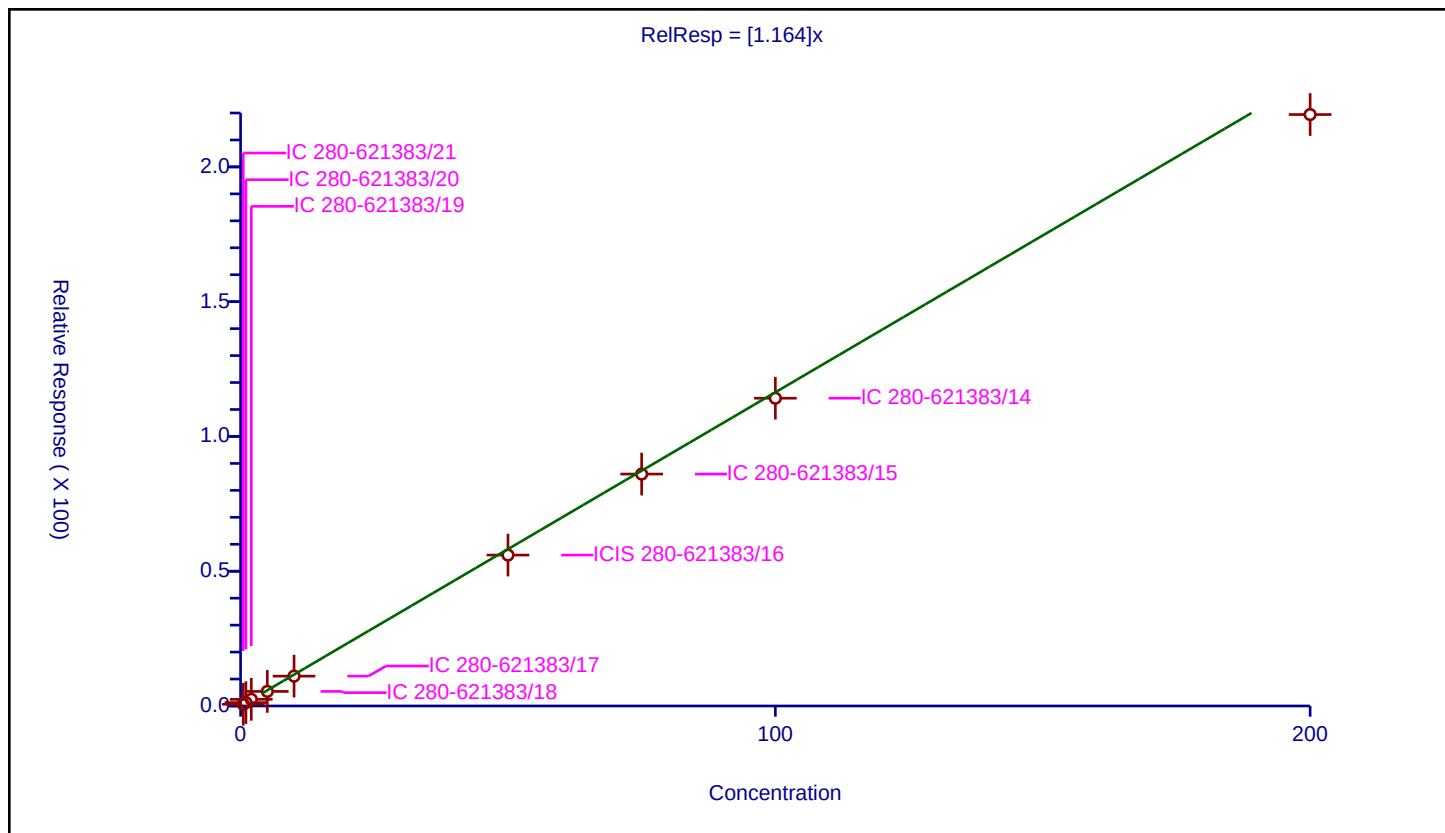
Curve Coefficients

Intercept: 0
Slope: 1.164

Error Coefficients

Standard Error: 761000
Relative Standard Error: 6.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.641716	50.0	360362.0	1.283432	Y
2	IC 280-621383/20	1.0	1.261914	50.0	356205.0	1.261914	Y
3	IC 280-621383/19	2.0	2.468883	50.0	381387.0	1.234442	Y
4	IC 280-621383/18	5.0	5.404554	50.0	379430.0	1.080911	Y
5	IC 280-621383/17	10.0	11.071873	50.0	383553.0	1.107187	Y
6	ICIS 280-621383/16	50.0	55.992891	50.0	389086.0	1.119858	Y
7	IC 280-621383/15	75.0	86.04823	50.0	391832.0	1.14731	Y
8	IC 280-621383/14	100.0	114.184726	50.0	397216.0	1.141847	Y
9	IC 280-621383/13	200.0	219.435858	50.0	405022.0	1.097179	Y



Calibration

/ 1,1,2-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

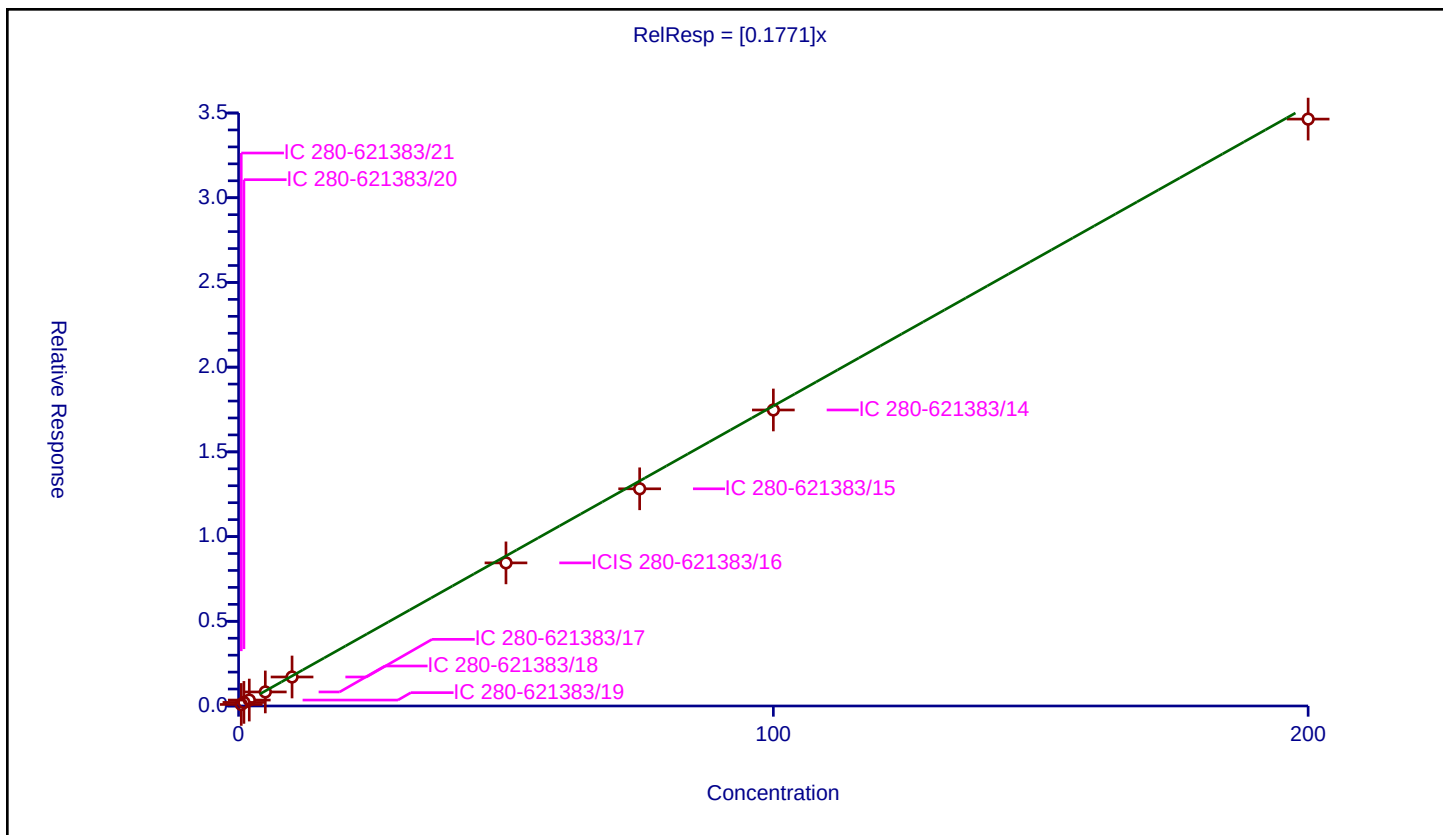
Curve Coefficients

Intercept: 0
Slope: 0.1771

Error Coefficients

Standard Error: 480000
Relative Standard Error: 7.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.091096	50.0	1427607.0	0.182193	Y
2	IC 280-621383/20	1.0	0.211681	50.0	1421716.0	0.211681	Y
3	IC 280-621383/19	2.0	0.350443	50.0	1514225.0	0.175222	Y
4	IC 280-621383/18	5.0	0.828972	50.0	1505056.0	0.165794	Y
5	IC 280-621383/17	10.0	1.711647	50.0	1526132.0	0.171165	Y
6	ICIS 280-621383/16	50.0	8.446689	50.0	1619392.0	0.168934	Y
7	IC 280-621383/15	75.0	12.820076	50.0	1620318.0	0.170934	Y
8	IC 280-621383/14	100.0	17.472757	50.0	1615947.0	0.174728	Y
9	IC 280-621383/13	200.0	34.641016	50.0	1629600.0	0.173205	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

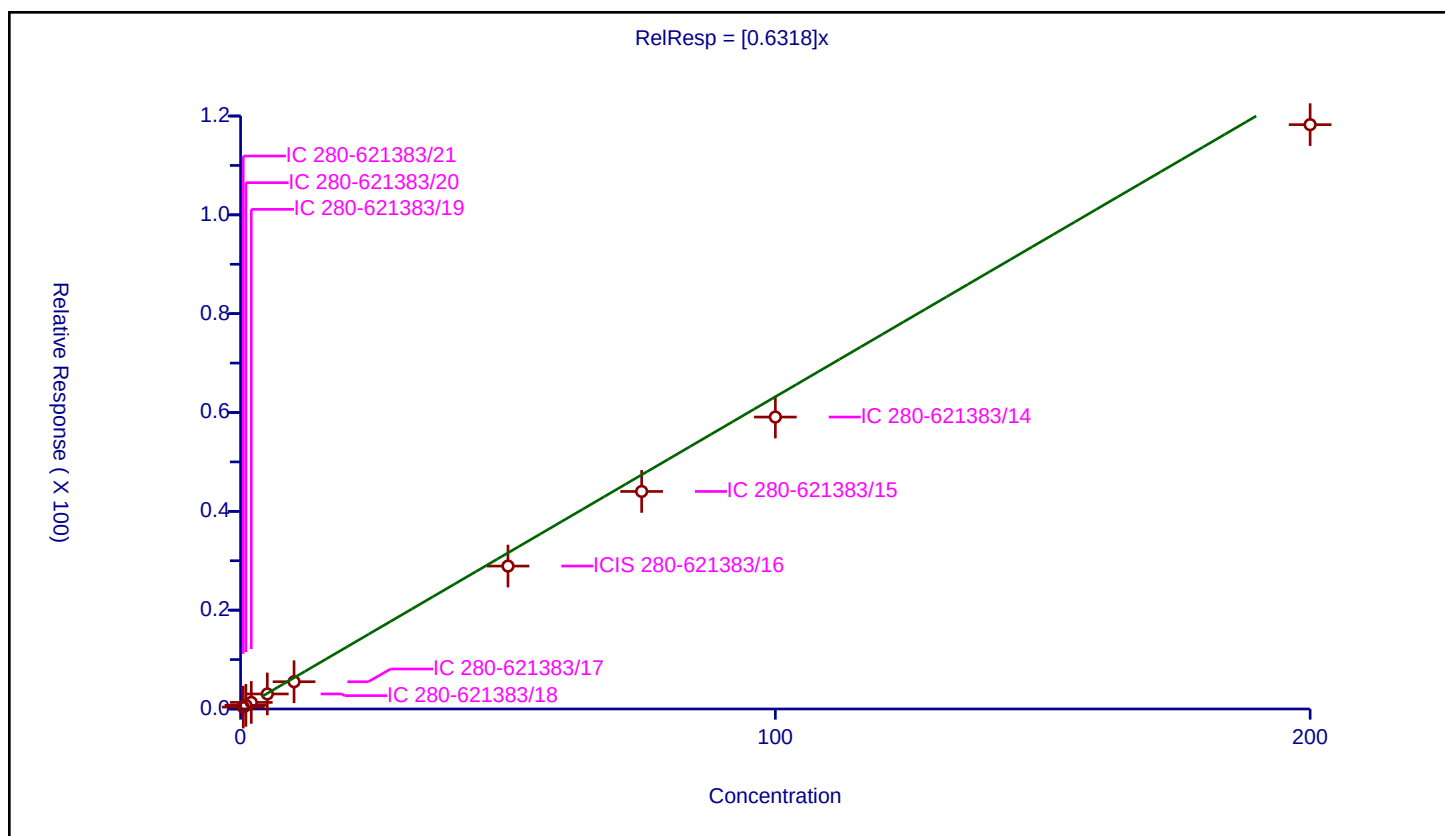
Curve Coefficients

Intercept: 0
 Slope: 0.6318

Error Coefficients

Standard Error: 405000
 Relative Standard Error: 12.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.387249	50.0	360362.0	0.774499	Y
2	IC 280-621383/20	1.0	0.7389	50.0	356205.0	0.7389	Y
3	IC 280-621383/19	2.0	1.33198	50.0	381387.0	0.66599	Y
4	IC 280-621383/18	5.0	3.039428	50.0	379430.0	0.607886	Y
5	IC 280-621383/17	10.0	5.518273	50.0	383553.0	0.551827	Y
6	ICIS 280-621383/16	50.0	28.924197	50.0	389086.0	0.578484	Y
7	IC 280-621383/15	75.0	44.023969	50.0	391832.0	0.586986	Y
8	IC 280-621383/14	100.0	59.076548	50.0	397216.0	0.590765	Y
9	IC 280-621383/13	200.0	118.251107	50.0	405022.0	0.591256	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

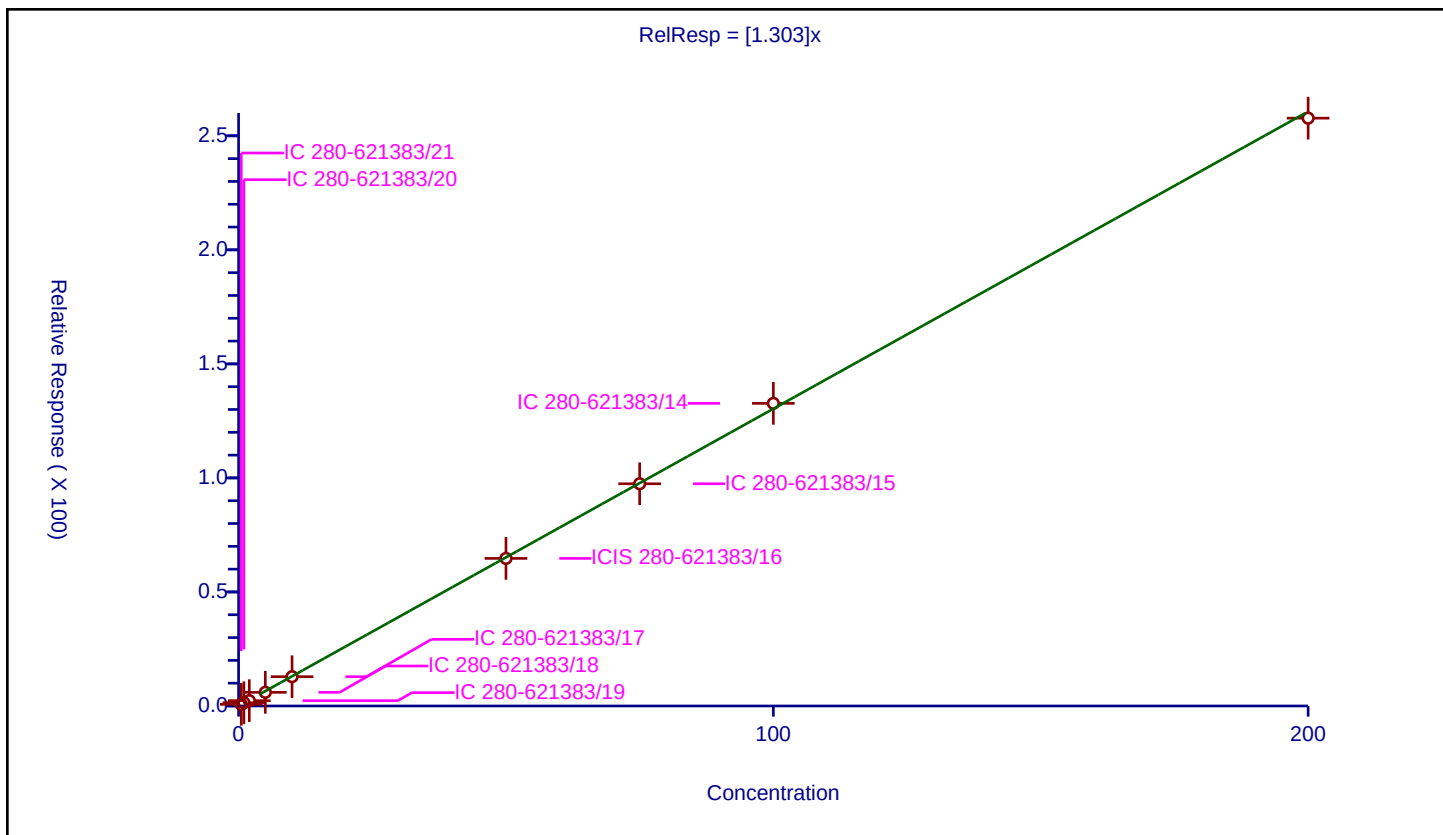
Curve Coefficients

Intercept: 0
Slope: 1.303

Error Coefficients

Standard Error: 889000
Relative Standard Error: 6.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.718305	50.0	360362.0	1.436611	Y
2	IC 280-621383/20	1.0	1.433023	50.0	356205.0	1.433023	Y
3	IC 280-621383/19	2.0	2.336865	50.0	381387.0	1.168433	Y
4	IC 280-621383/18	5.0	5.988456	50.0	379430.0	1.197691	Y
5	IC 280-621383/17	10.0	12.841772	50.0	383553.0	1.284177	Y
6	ICIS 280-621383/16	50.0	64.709601	50.0	389086.0	1.294192	Y
7	IC 280-621383/15	75.0	97.437295	50.0	391832.0	1.299164	Y
8	IC 280-621383/14	100.0	132.688134	50.0	397216.0	1.326881	Y
9	IC 280-621383/13	200.0	257.744518	50.0	405022.0	1.288723	Y



Calibration

/ 2-Hexanone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

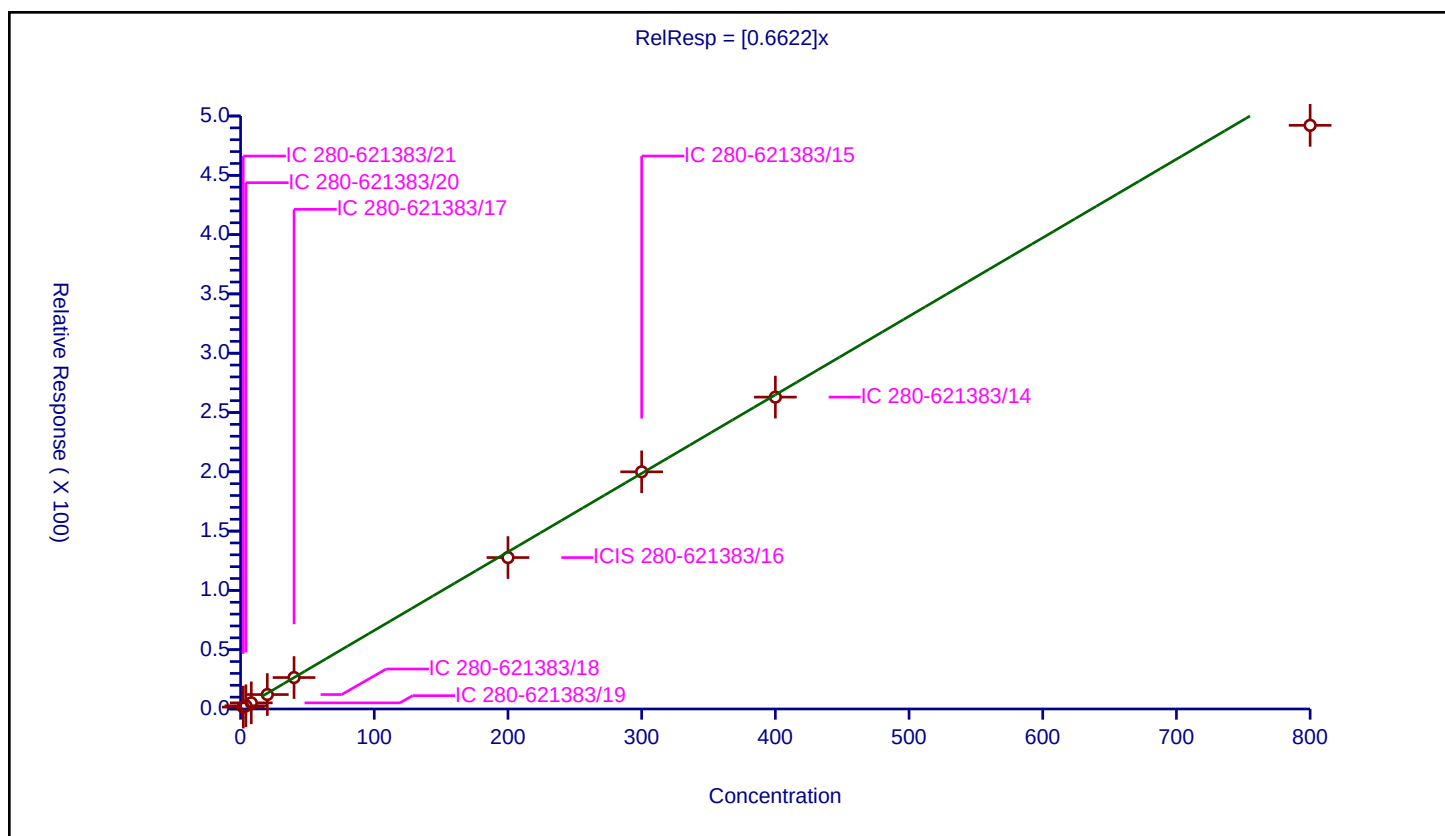
Curve Coefficients

Intercept: 0
 Slope: 0.6622

Error Coefficients

Standard Error: 1720000
 Relative Standard Error: 8.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	2.0	1.578552	50.0	360362.0	0.789276	Y
2	IC 280-621383/20	4.0	2.701675	50.0	356205.0	0.675419	Y
3	IC 280-621383/19	8.0	5.172699	50.0	381387.0	0.646587	Y
4	IC 280-621383/18	20.0	12.166408	50.0	379430.0	0.60832	Y
5	IC 280-621383/17	40.0	26.517848	50.0	383553.0	0.662946	Y
6	ICIS 280-621383/16	200.0	127.691179	50.0	389086.0	0.638456	Y
7	IC 280-621383/15	300.0	199.98137	50.0	391832.0	0.666605	Y
8	IC 280-621383/14	400.0	262.968385	50.0	397216.0	0.657421	Y
9	IC 280-621383/13	800.0	492.146846	50.0	405022.0	0.615184	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

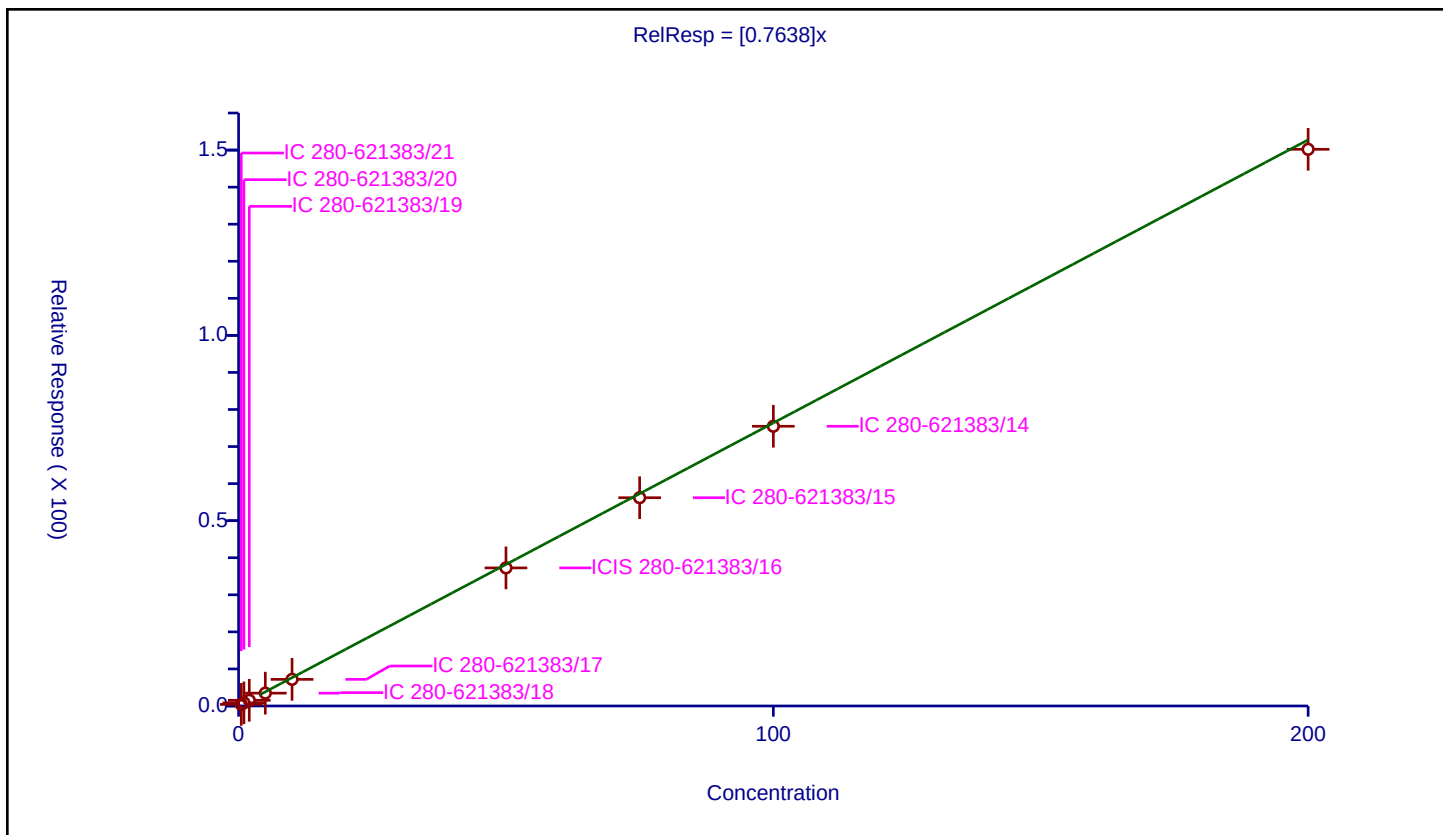
Curve Coefficients

Intercept: 0
 Slope: 0.7638

Error Coefficients

Standard Error: 515000
 Relative Standard Error: 6.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.425128	50.0	360362.0	0.850256	Y
2	IC 280-621383/20	1.0	0.846282	50.0	356205.0	0.846282	Y
3	IC 280-621383/19	2.0	1.533482	50.0	381387.0	0.766741	Y
4	IC 280-621383/18	5.0	3.462035	50.0	379430.0	0.692407	Y
5	IC 280-621383/17	10.0	7.18271	50.0	383553.0	0.718271	Y
6	ICIS 280-621383/16	50.0	37.261428	50.0	389086.0	0.745229	Y
7	IC 280-621383/15	75.0	56.199341	50.0	391832.0	0.749325	Y
8	IC 280-621383/14	100.0	75.478203	50.0	397216.0	0.754782	Y
9	IC 280-621383/13	200.0	150.20468	50.0	405022.0	0.751023	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

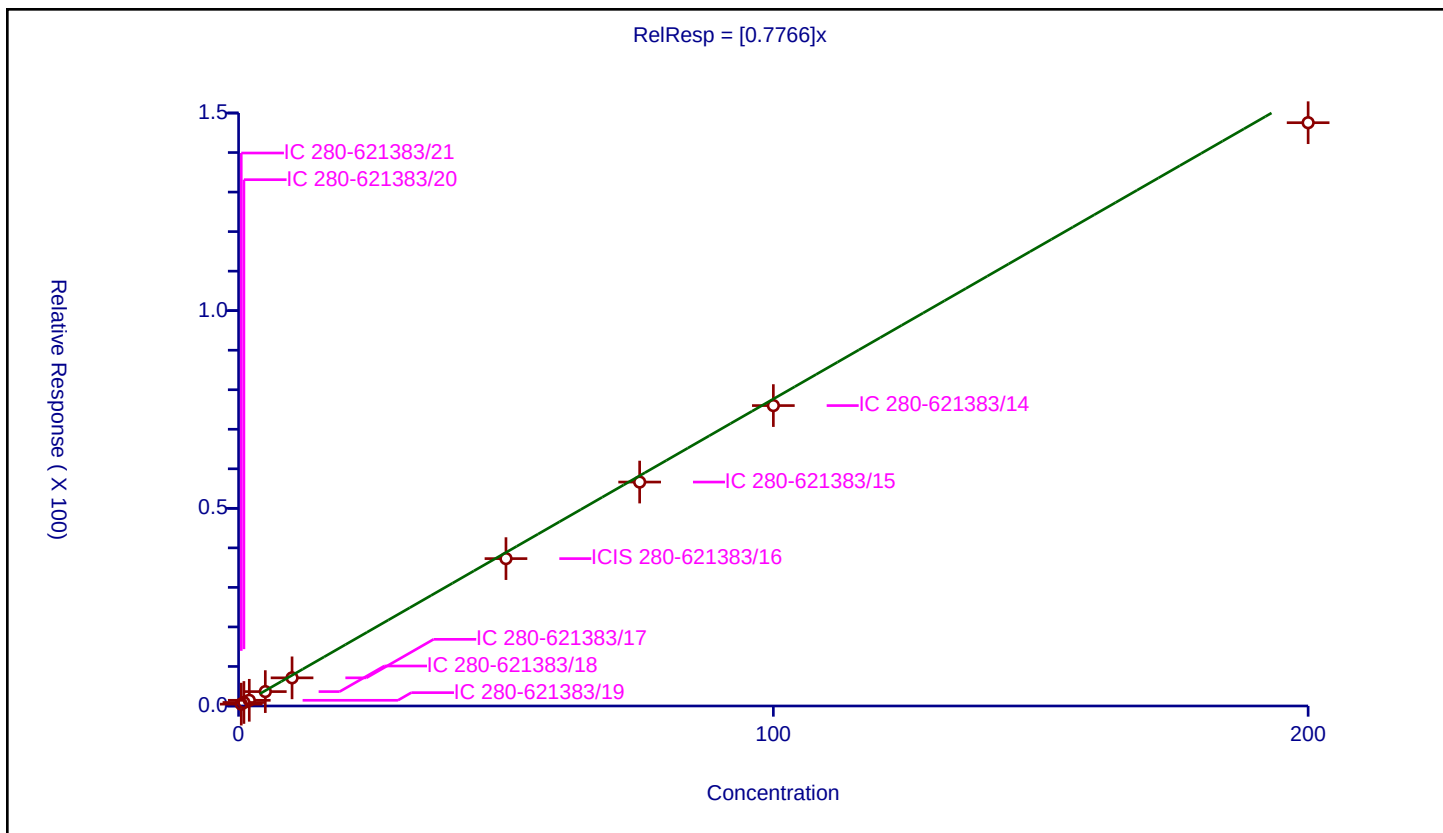
Curve Coefficients

Intercept: 0
Slope: 0.7766

Error Coefficients

Standard Error: 510000
Relative Standard Error: 10.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.471748	50.0	360362.0	0.943496	Y
2	IC 280-621383/20	1.0	0.888253	50.0	356205.0	0.888253	Y
3	IC 280-621383/19	2.0	1.438303	50.0	381387.0	0.719151	Y
4	IC 280-621383/18	5.0	3.638089	50.0	379430.0	0.727618	Y
5	IC 280-621383/17	10.0	7.119746	50.0	383553.0	0.711975	Y
6	ICIS 280-621383/16	50.0	37.281732	50.0	389086.0	0.745635	Y
7	IC 280-621383/15	75.0	56.647237	50.0	391832.0	0.755296	Y
8	IC 280-621383/14	100.0	75.995806	50.0	397216.0	0.759958	Y
9	IC 280-621383/13	200.0	147.55396	50.0	405022.0	0.73777	Y



Calibration

/ 1-Chlorohexane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

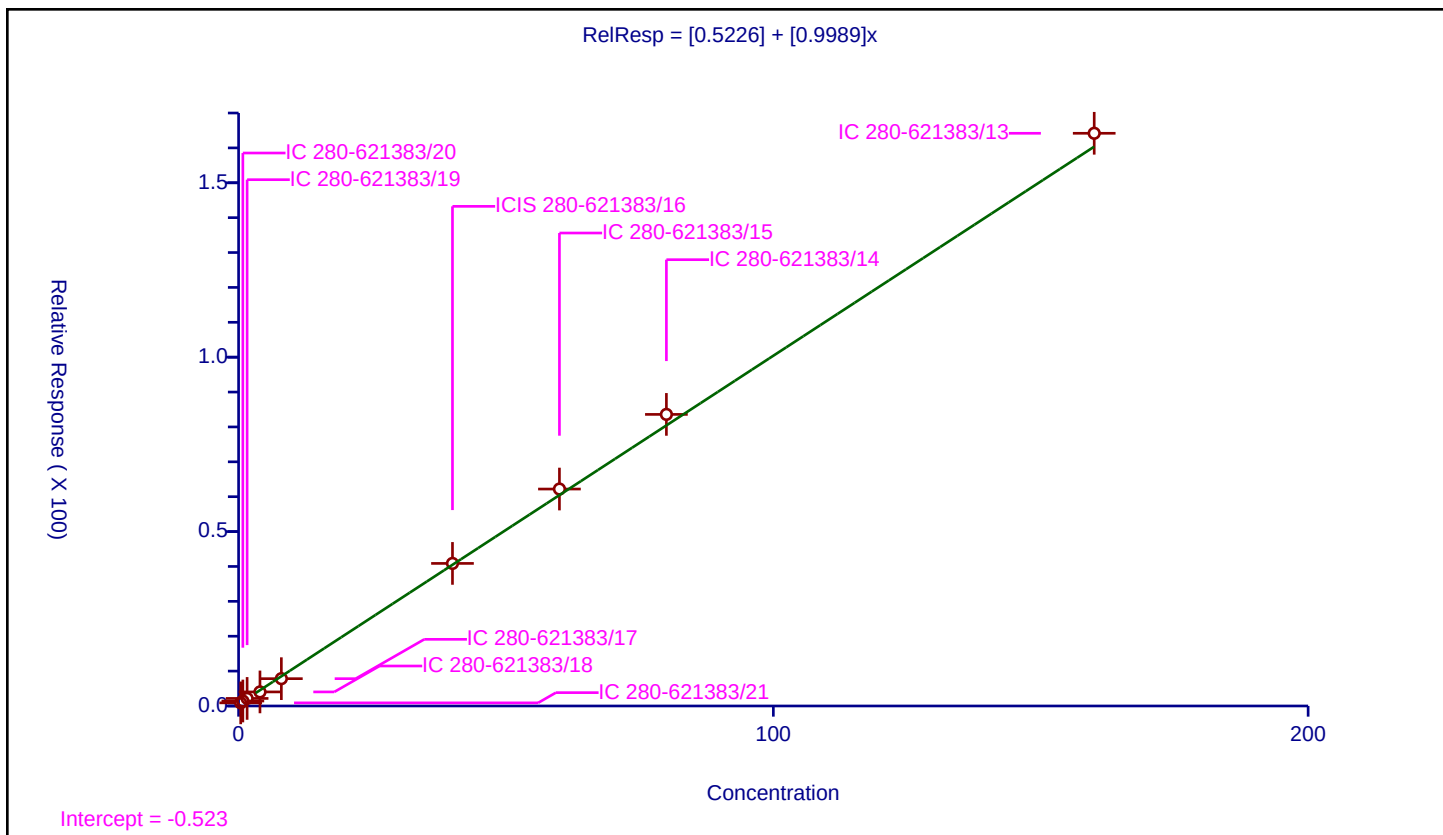
Curve Coefficients

Intercept: 0.5226
 Slope: 0.9989

Error Coefficients

Standard Error: 604000
 Relative Standard Error: 8.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.4	0.899096	50.0	360362.0	2.24774	Y
2	IC 280-621383/20	0.8	1.427549	50.0	356205.0	1.784436	Y
3	IC 280-621383/19	1.6	2.169843	50.0	381387.0	1.356152	Y
4	IC 280-621383/18	4.0	4.029992	50.0	379430.0	1.007498	Y
5	IC 280-621383/17	8.0	7.83451	50.0	383553.0	0.979314	Y
6	ICIS 280-621383/16	40.0	40.873354	50.0	389086.0	1.021834	Y
7	IC 280-621383/15	60.0	62.195278	50.0	391832.0	1.036588	Y
8	IC 280-621383/14	80.0	83.591799	50.0	397216.0	1.044897	Y
9	IC 280-621383/13	160.0	164.191575	50.0	405022.0	1.026197	Y



Calibration

/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

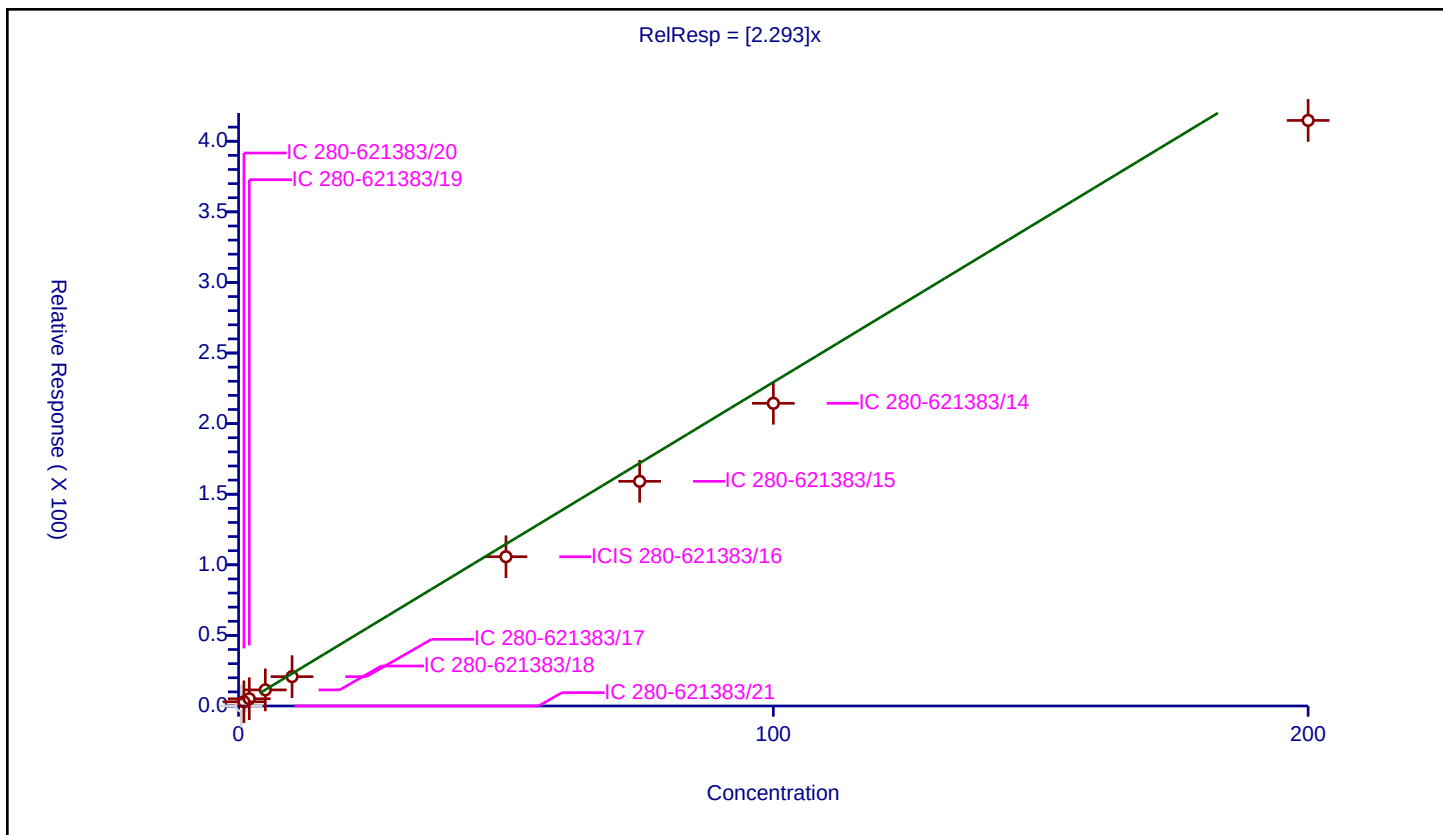
Curve Coefficients

Intercept: 0
 Slope: 2.293

Error Coefficients

Standard Error: 1530000
 Relative Standard Error: 13.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	360362.0	0.0	N
2	IC 280-621383/20	1.0	2.967252	50.0	356205.0	2.967252	Y
3	IC 280-621383/19	2.0	5.134679	50.0	381387.0	2.56734	Y
4	IC 280-621383/18	5.0	11.406188	50.0	379430.0	2.281238	Y
5	IC 280-621383/17	10.0	20.779136	50.0	383553.0	2.077914	Y
6	ICIS 280-621383/16	50.0	105.723542	50.0	389086.0	2.114471	Y
7	IC 280-621383/15	75.0	159.131847	50.0	391832.0	2.121758	Y
8	IC 280-621383/14	100.0	214.391037	50.0	397216.0	2.14391	Y
9	IC 280-621383/13	200.0	414.749569	50.0	405022.0	2.073748	Y



Calibration

/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

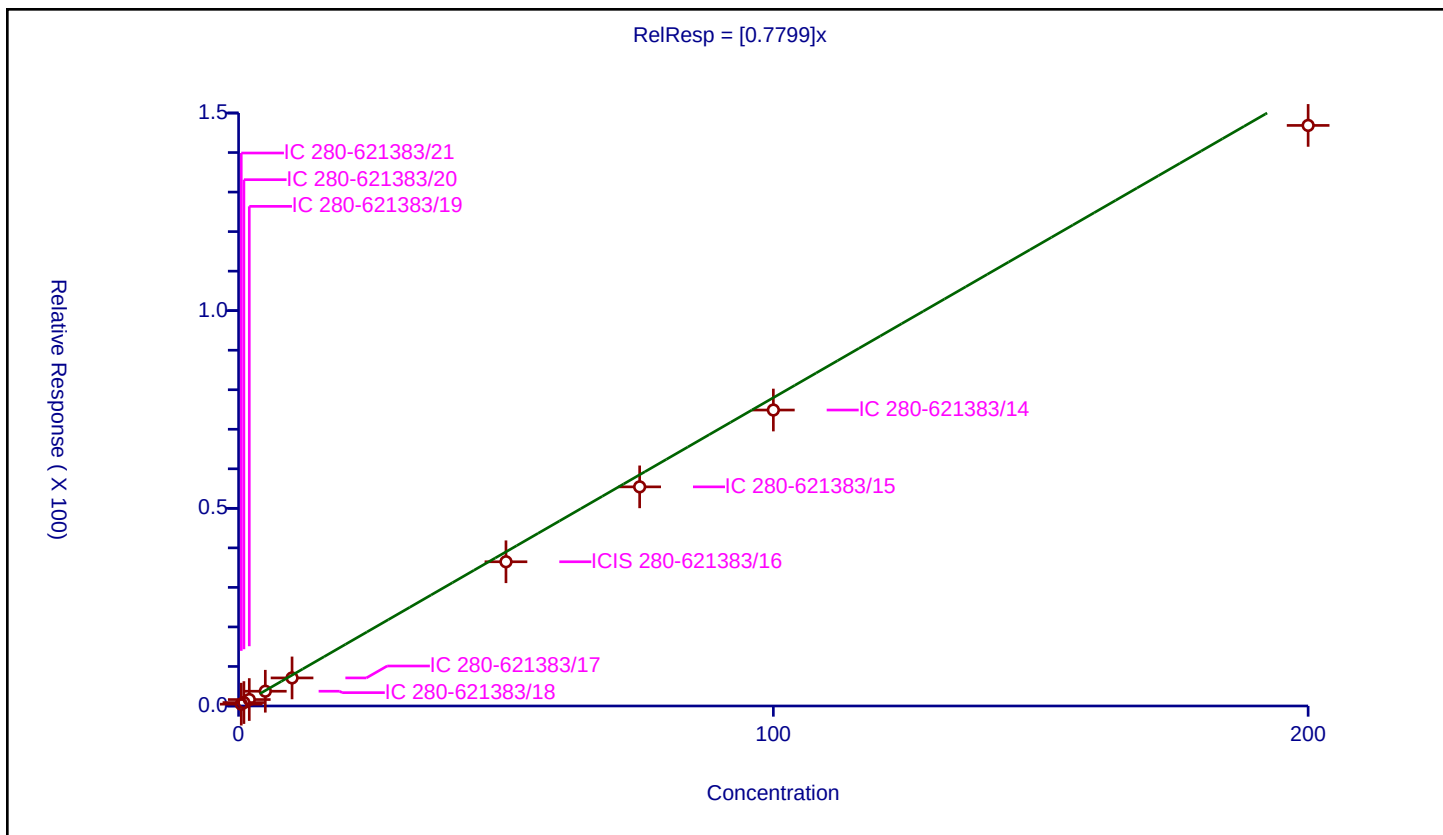
Curve Coefficients

Intercept: 0
Slope: 0.7799

Error Coefficients

Standard Error: 505000
Relative Standard Error: 9.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.463562	50.0	360362.0	0.927123	Y
2	IC 280-621383/20	1.0	0.867618	50.0	356205.0	0.867618	Y
3	IC 280-621383/19	2.0	1.631807	50.0	381387.0	0.815904	Y
4	IC 280-621383/18	5.0	3.732309	50.0	379430.0	0.746462	Y
5	IC 280-621383/17	10.0	7.101496	50.0	383553.0	0.71015	Y
6	ICIS 280-621383/16	50.0	36.483965	50.0	389086.0	0.729679	Y
7	IC 280-621383/15	75.0	55.435748	50.0	391832.0	0.739143	Y
8	IC 280-621383/14	100.0	74.868711	50.0	397216.0	0.748687	Y
9	IC 280-621383/13	200.0	146.861158	50.0	405022.0	0.734306	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

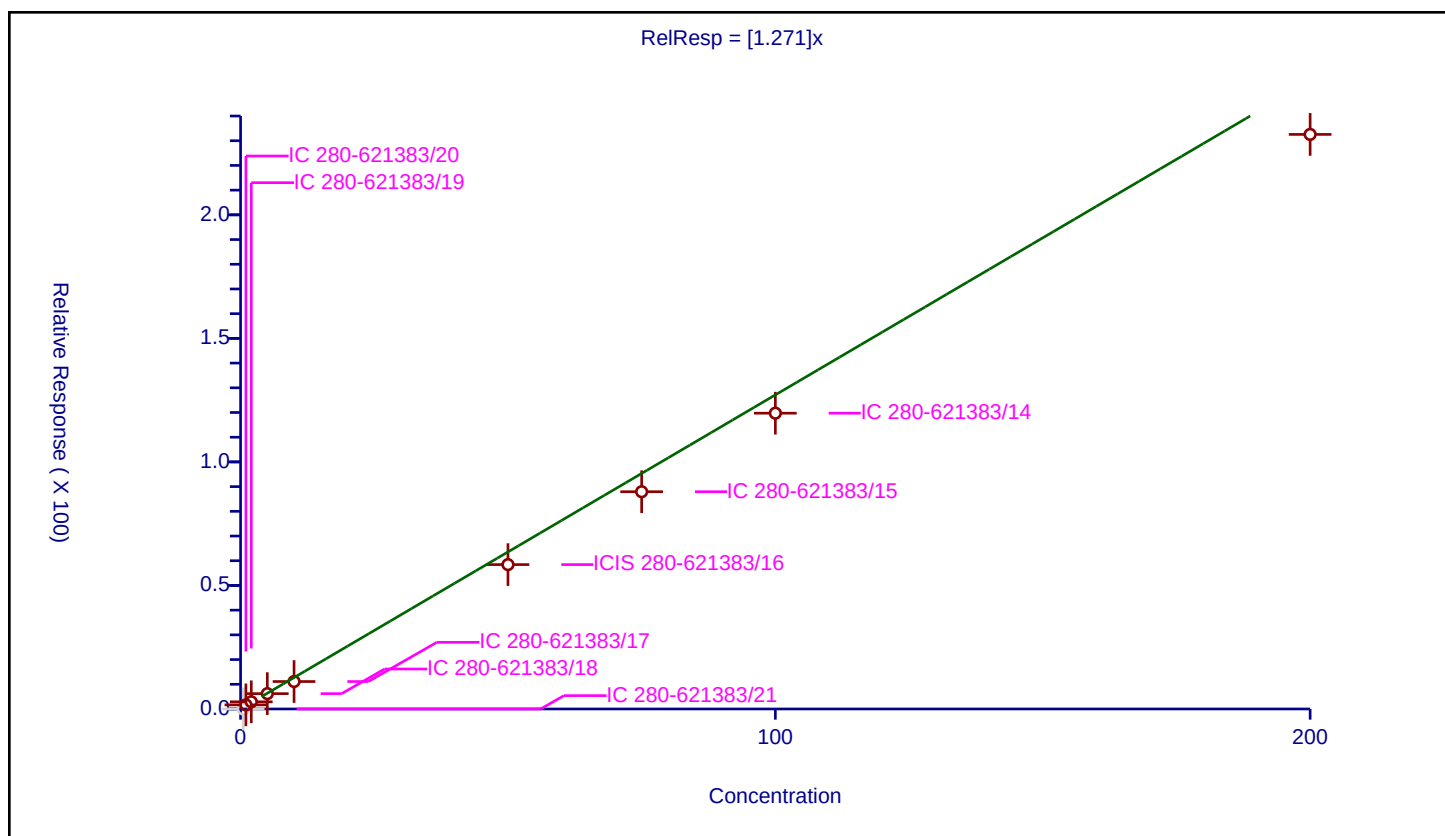
Curve Coefficients

Intercept: 0
Slope: 1.271

Error Coefficients

Standard Error: 857000
Relative Standard Error: 14.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.965

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	360362.0	0.0	N
2	IC 280-621383/20	1.0	1.662666	50.0	356205.0	1.662666	Y
3	IC 280-621383/19	2.0	2.905841	50.0	381387.0	1.452921	Y
4	IC 280-621383/18	5.0	6.208523	50.0	379430.0	1.241705	Y
5	IC 280-621383/17	10.0	11.112284	50.0	383553.0	1.111228	Y
6	ICIS 280-621383/16	50.0	58.43798	50.0	389086.0	1.16876	Y
7	IC 280-621383/15	75.0	87.936922	50.0	391832.0	1.172492	Y
8	IC 280-621383/14	100.0	119.723526	50.0	397216.0	1.197235	Y
9	IC 280-621383/13	200.0	232.552059	50.0	405022.0	1.16276	Y



Calibration

/ m-Xylene & p-Xylene

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

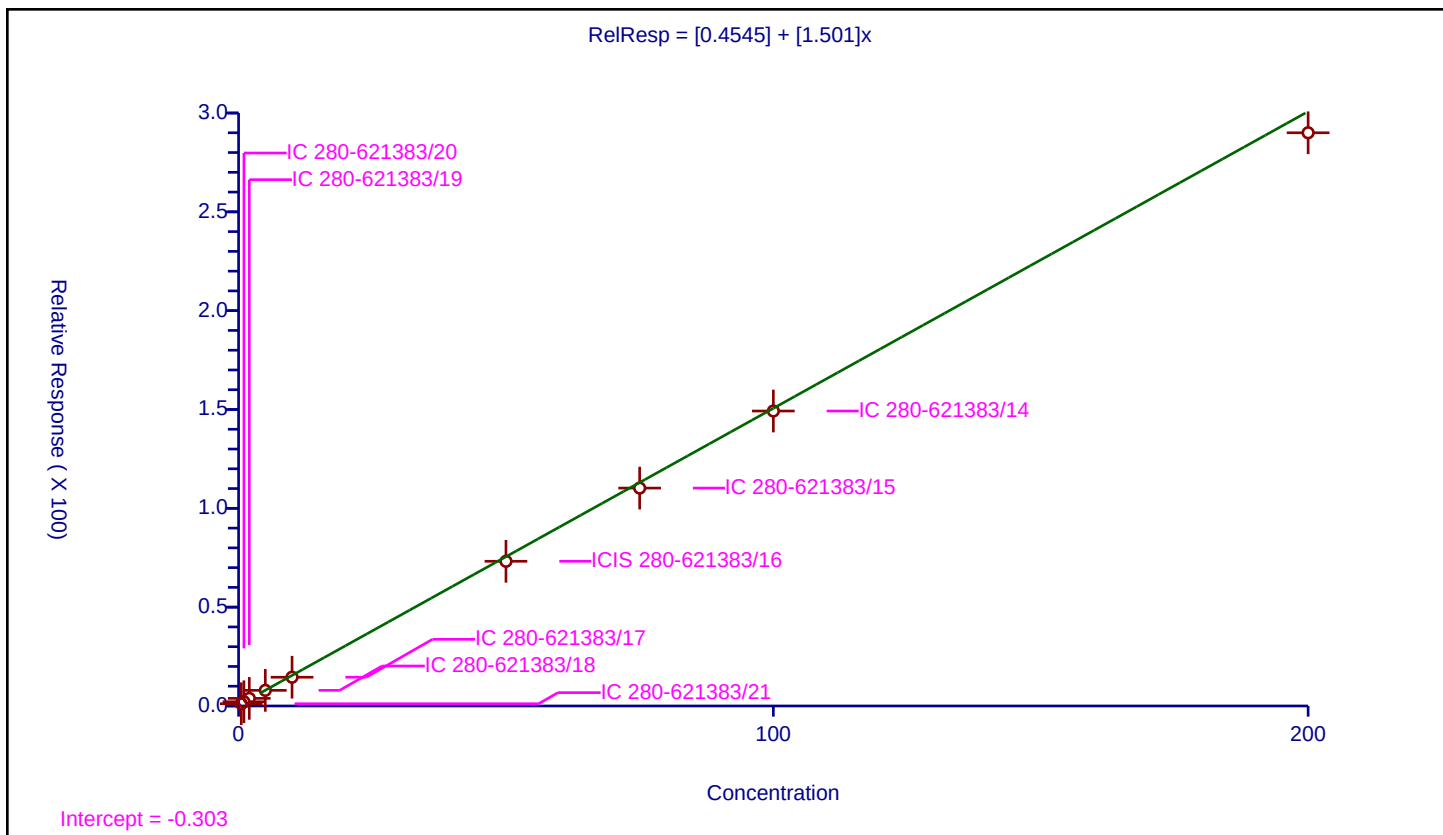
Curve Coefficients

Intercept: 0.4545
Slope: 1.501

Error Coefficients

Standard Error: 1070000
Relative Standard Error: 8.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	1.135109	50.0	360362.0	2.270217	Y
2	IC 280-621383/20	1.0	2.149605	50.0	356205.0	2.149605	Y
3	IC 280-621383/19	2.0	3.856057	50.0	381387.0	1.928028	Y
4	IC 280-621383/18	5.0	7.912658	50.0	379430.0	1.582532	Y
5	IC 280-621383/17	10.0	14.554573	50.0	383553.0	1.455457	Y
6	ICIS 280-621383/16	50.0	73.209779	50.0	389086.0	1.464196	Y
7	IC 280-621383/15	75.0	110.242655	50.0	391832.0	1.469902	Y
8	IC 280-621383/14	100.0	149.234296	50.0	397216.0	1.492343	Y
9	IC 280-621383/13	200.0	290.005481	50.0	405022.0	1.450027	Y



Calibration

/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

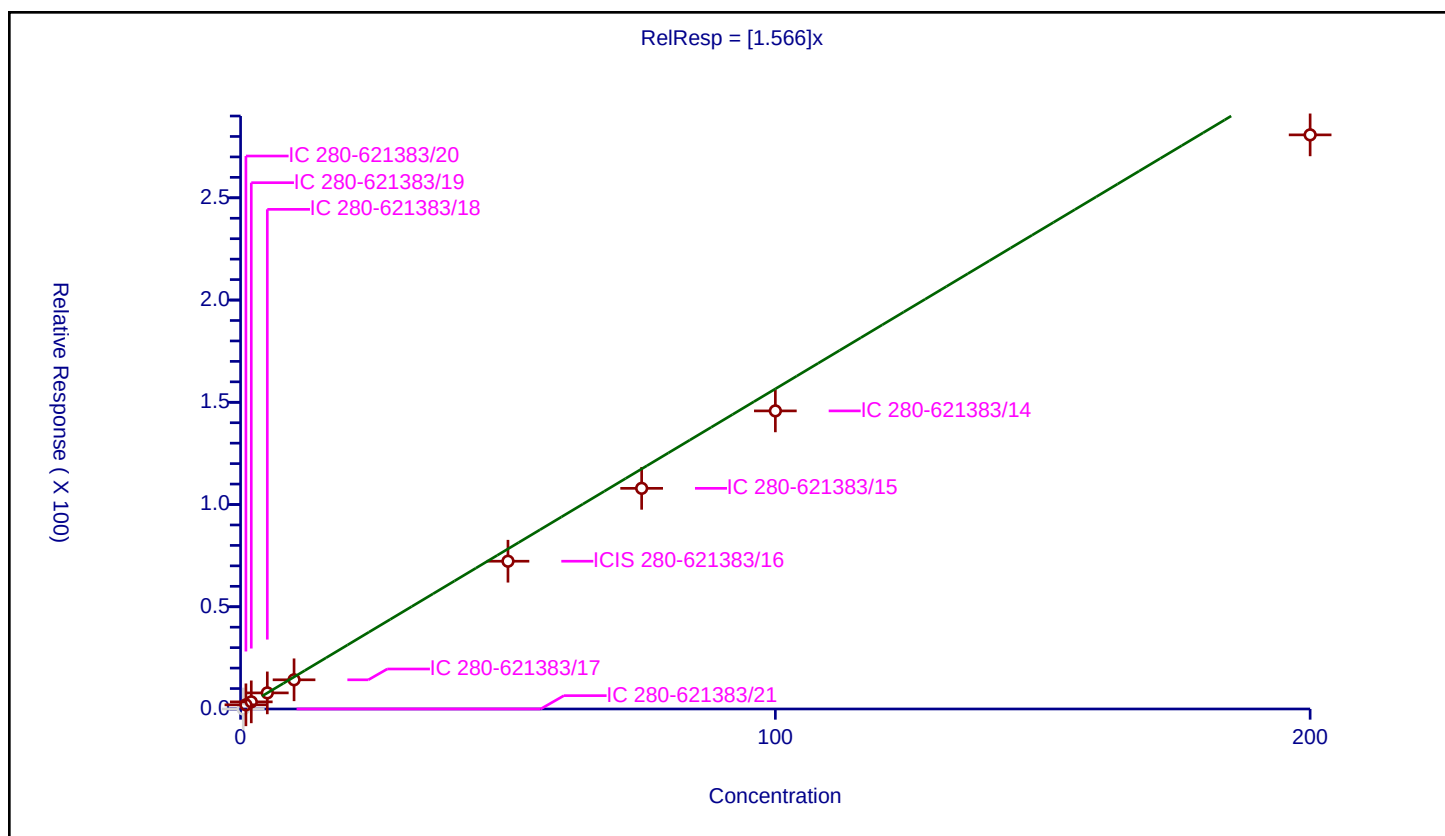
Curve Coefficients

Intercept: 0
 Slope: 1.566

Error Coefficients

Standard Error: 1040000
 Relative Standard Error: 14.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	360362.0	0.0	N
2	IC 280-621383/20	1.0	2.035064	50.0	356205.0	2.035064	Y
3	IC 280-621383/19	2.0	3.482814	50.0	381387.0	1.741407	Y
4	IC 280-621383/18	5.0	7.87049	50.0	379430.0	1.574098	Y
5	IC 280-621383/17	10.0	14.277557	50.0	383553.0	1.427756	Y
6	ICIS 280-621383/16	50.0	72.271169	50.0	389086.0	1.445423	Y
7	IC 280-621383/15	75.0	107.917807	50.0	391832.0	1.438904	Y
8	IC 280-621383/14	100.0	145.781388	50.0	397216.0	1.457814	Y
9	IC 280-621383/13	200.0	280.78055	50.0	405022.0	1.403903	Y



Calibration

/ Styrene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

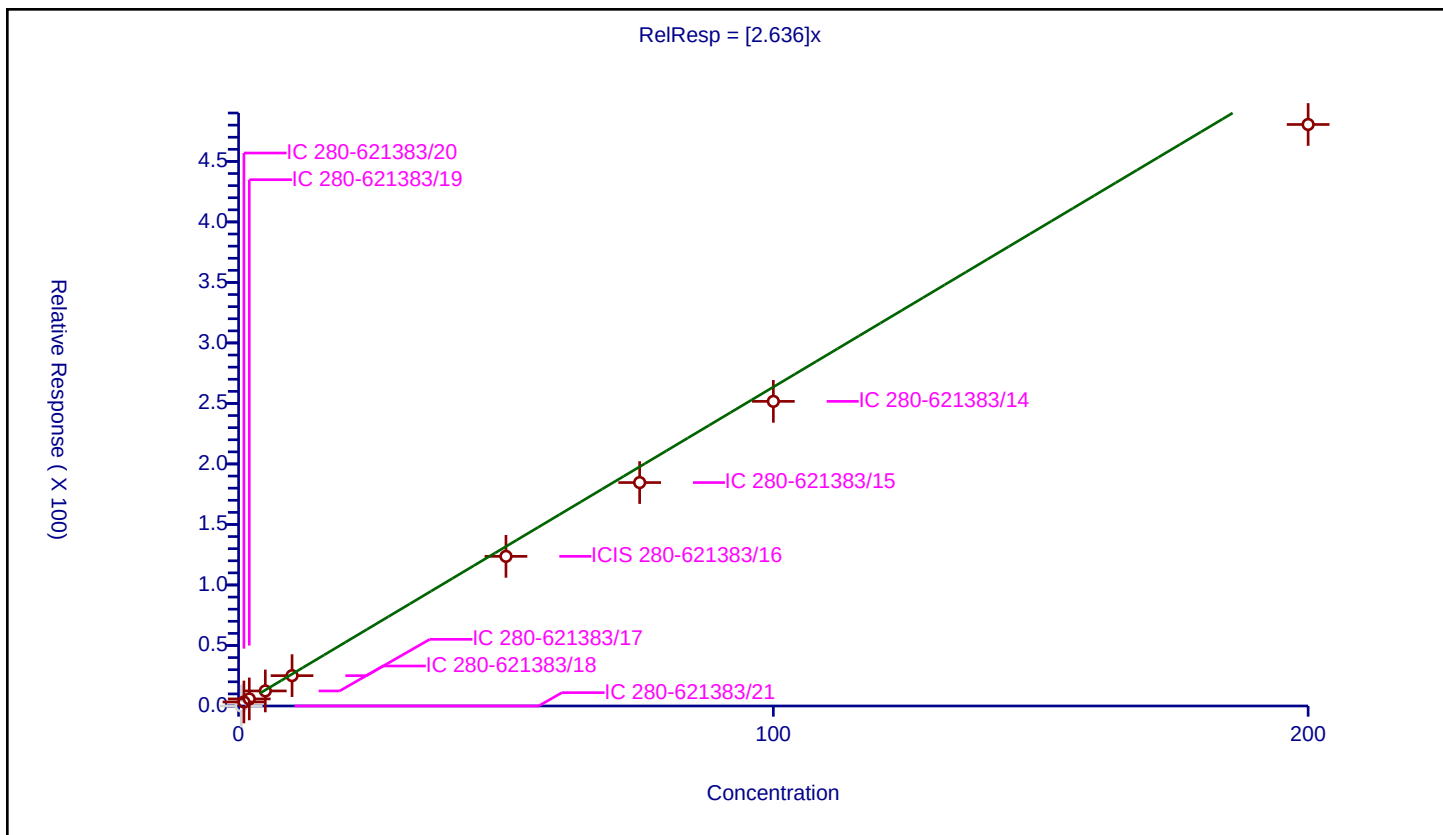
Curve Coefficients

Intercept: 0
 Slope: 2.636

Error Coefficients

Standard Error: 1780000
 Relative Standard Error: 12.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	360362.0	0.0	N
2	IC 280-621383/20	1.0	3.316489	50.0	356205.0	3.316489	Y
3	IC 280-621383/19	2.0	5.845899	50.0	381387.0	2.92295	Y
4	IC 280-621383/18	5.0	12.438263	50.0	379430.0	2.487653	Y
5	IC 280-621383/17	10.0	25.060943	50.0	383553.0	2.506094	Y
6	ICIS 280-621383/16	50.0	123.664177	50.0	389086.0	2.473284	Y
7	IC 280-621383/15	75.0	184.633083	50.0	391832.0	2.461774	Y
8	IC 280-621383/14	100.0	251.715691	50.0	397216.0	2.517157	Y
9	IC 280-621383/13	200.0	480.530317	50.0	405022.0	2.402652	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

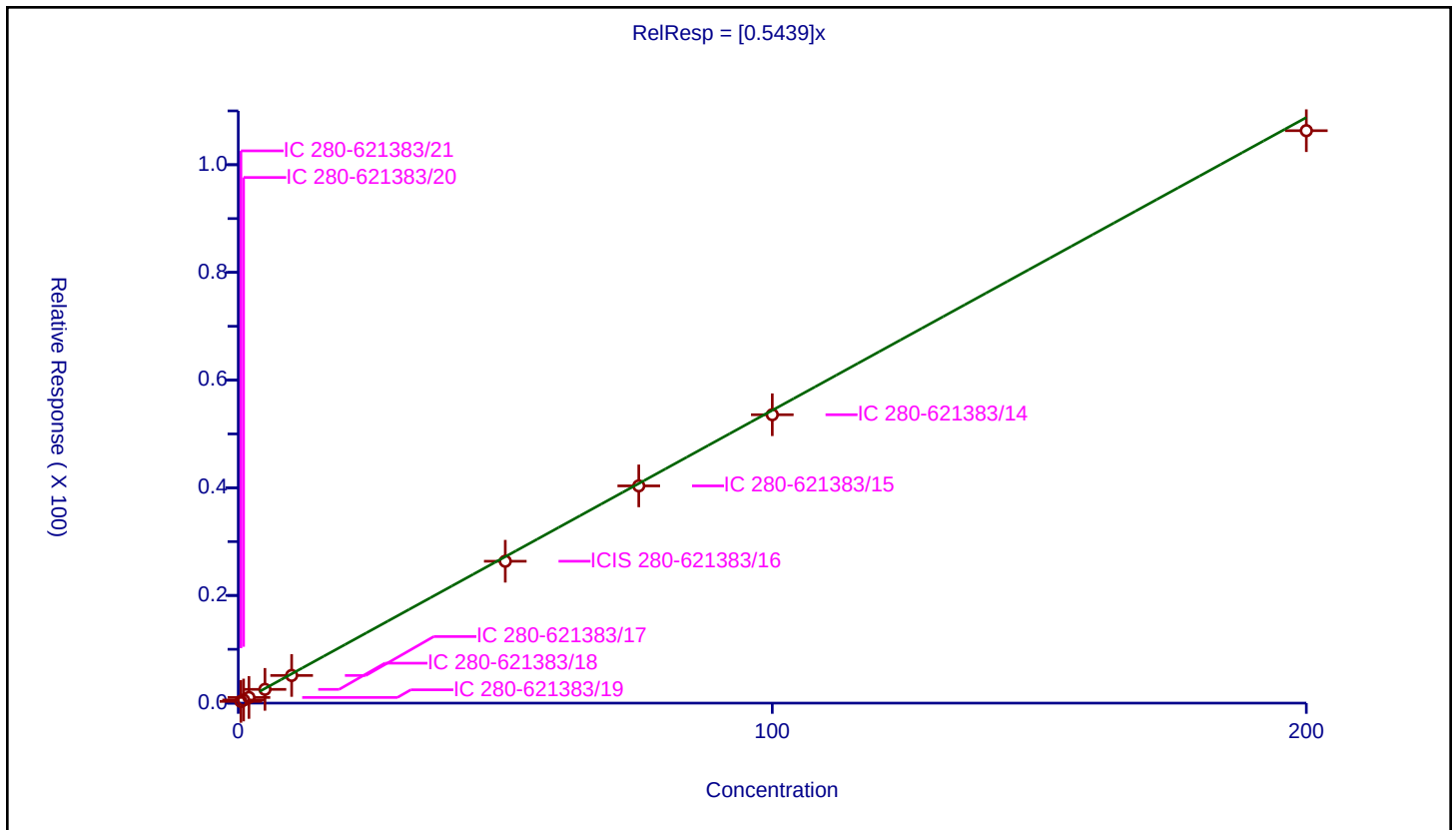
Curve Coefficients

Intercept: 0
Slope: 0.5439

Error Coefficients

Standard Error: 365000
Relative Standard Error: 7.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.319817	50.0	360362.0	0.639635	Y
2	IC 280-621383/20	1.0	0.573827	50.0	356205.0	0.573827	Y
3	IC 280-621383/19	2.0	1.049197	50.0	381387.0	0.524598	Y
4	IC 280-621383/18	5.0	2.554621	50.0	379430.0	0.510924	Y
5	IC 280-621383/17	10.0	5.135144	50.0	383553.0	0.513514	Y
6	ICIS 280-621383/16	50.0	26.355099	50.0	389086.0	0.527102	Y
7	IC 280-621383/15	75.0	40.350712	50.0	391832.0	0.538009	Y
8	IC 280-621383/14	100.0	53.564308	50.0	397216.0	0.535643	Y
9	IC 280-621383/13	200.0	106.32299	50.0	405022.0	0.531615	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

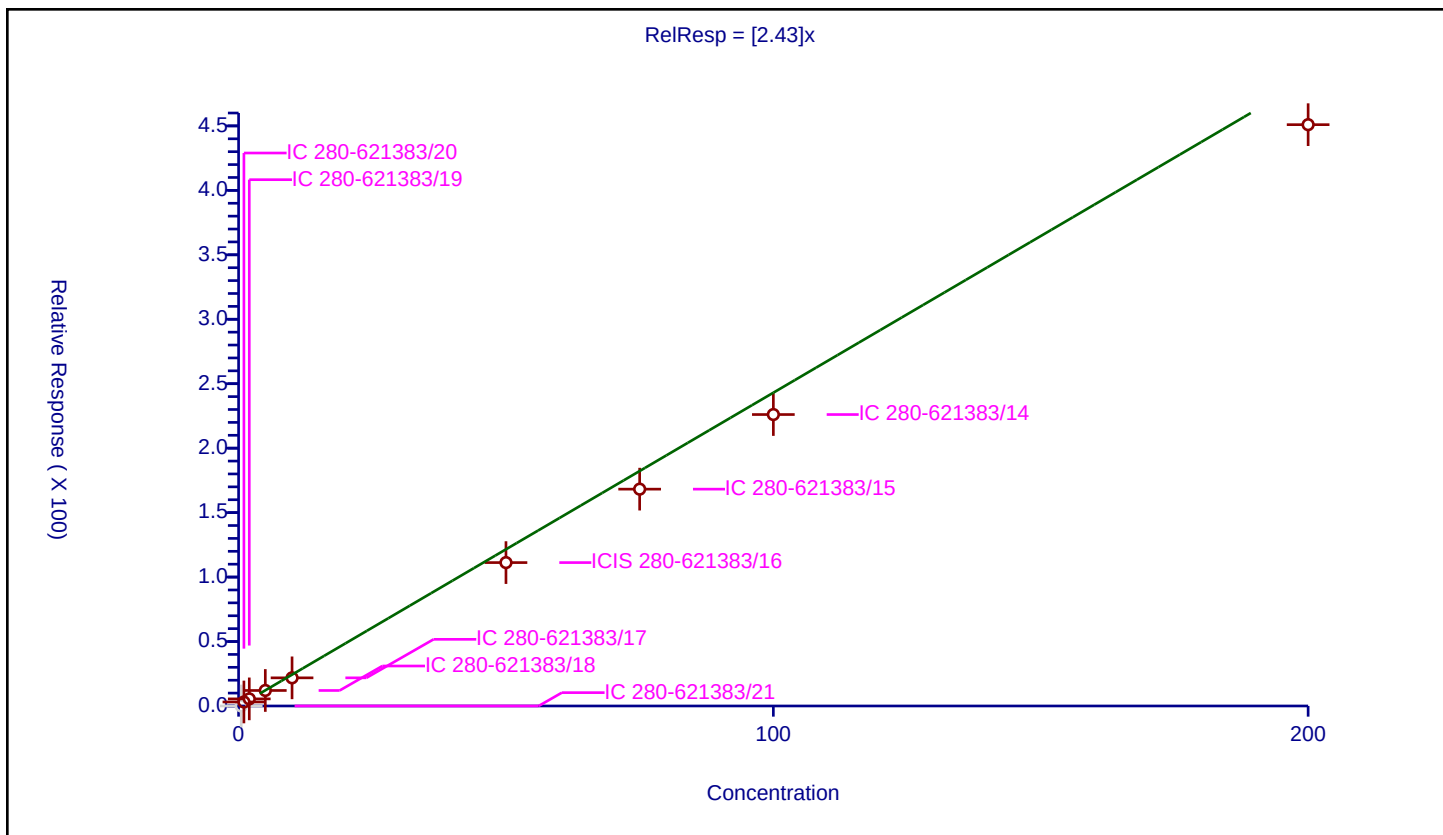
Curve Coefficients

Intercept: 0
Slope: 2.43

Error Coefficients

Standard Error: 2530000
Relative Standard Error: 13.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	3.113255	50.0	557937.0	3.113255	Y
3	IC 280-621383/19	2.0	5.513104	50.0	606446.0	2.756552	Y
4	IC 280-621383/18	5.0	12.033817	50.0	590835.0	2.406763	Y
5	IC 280-621383/17	10.0	21.825391	50.0	594404.0	2.182539	Y
6	ICIS 280-621383/16	50.0	111.238806	50.0	615052.0	2.224776	Y
7	IC 280-621383/15	75.0	168.218854	50.0	617709.0	2.242918	Y
8	IC 280-621383/14	100.0	226.085204	50.0	619031.0	2.260852	Y
9	IC 280-621383/13	200.0	450.959912	50.0	614848.0	2.2548	Y



Calibration

/ Cyclohexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

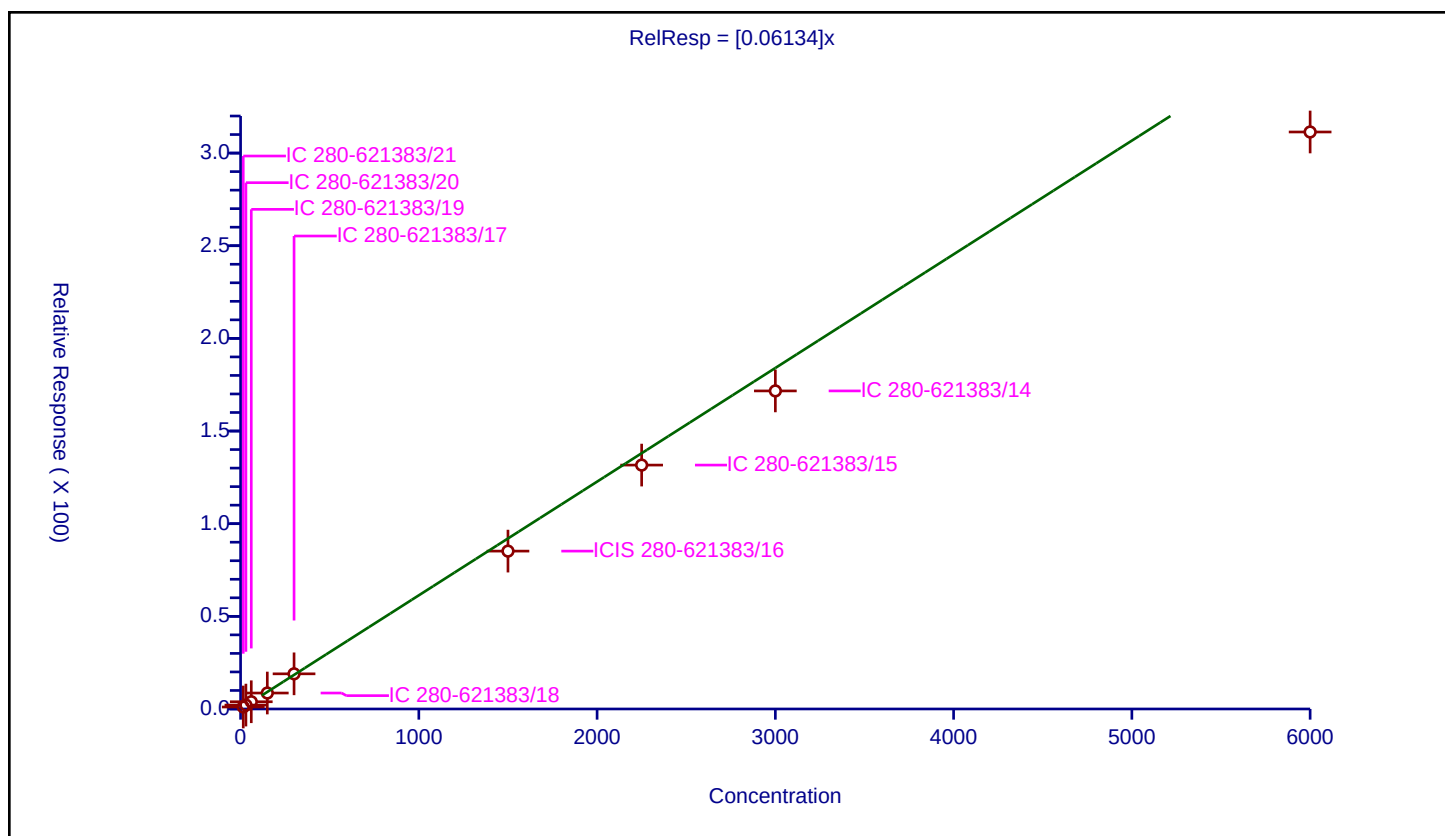
Curve Coefficients

Intercept: 0
Slope: 0.06134

Error Coefficients

Standard Error: 1100000
Relative Standard Error: 10.8
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	15.0	1.072116	50.0	360362.0	0.071474	Y
2	IC 280-621383/20	30.0	2.112267	50.0	356205.0	0.070409	Y
3	IC 280-621383/19	60.0	3.903778	50.0	381387.0	0.065063	Y
4	IC 280-621383/18	150.0	8.618059	50.0	379430.0	0.057454	Y
5	IC 280-621383/17	300.0	18.980819	50.0	383553.0	0.063269	Y
6	ICIS 280-621383/16	1500.0	85.203014	50.0	389086.0	0.056802	Y
7	IC 280-621383/15	2250.0	131.617887	50.0	391832.0	0.058497	Y
8	IC 280-621383/14	3000.0	171.640745	50.0	397216.0	0.057214	Y
9	IC 280-621383/13	6000.0	311.385801	50.0	405022.0	0.051898	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

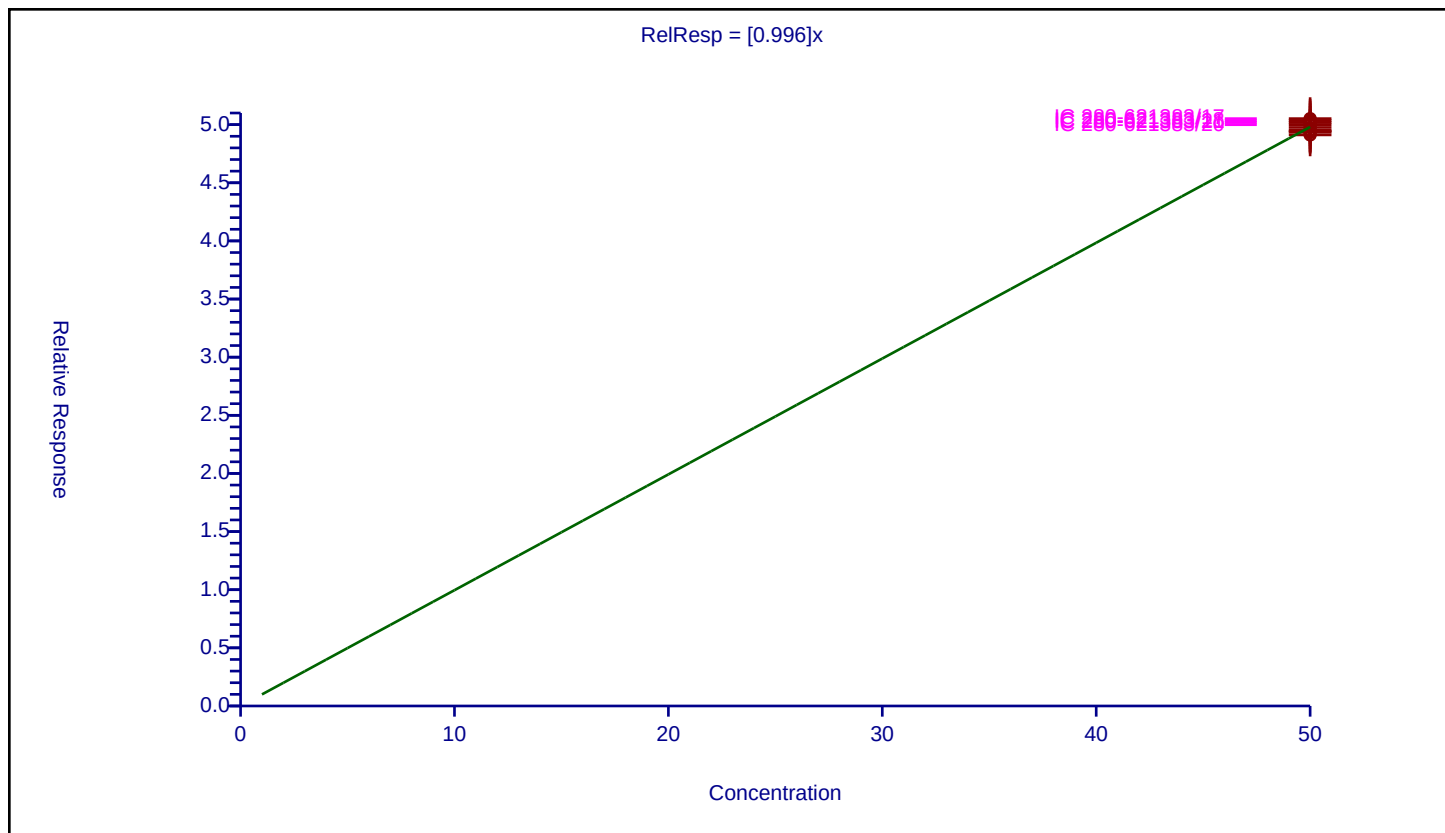
Curve Coefficients

Intercept: 0
 Slope: 0.996

Error Coefficients

Standard Error: 631000
 Relative Standard Error: 1.0
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/13	50.0	49.756607	50.0	614848.0	0.995132	Y
2	IC 280-621383/14	50.0	49.116522	50.0	619031.0	0.98233	Y
3	IC 280-621383/15	50.0	49.515872	50.0	617709.0	0.990317	Y
4	ICIS 280-621383/16	50.0	49.344364	50.0	615052.0	0.986887	Y
5	IC 280-621383/17	50.0	50.517409	50.0	594404.0	1.010348	Y
6	IC 280-621383/18	50.0	50.344259	50.0	590835.0	1.006885	Y
7	IC 280-621383/19	50.0	49.443726	50.0	606446.0	0.988875	Y
8	IC 280-621383/20	50.0	49.992562	50.0	557937.0	0.999851	Y
9	IC 280-621383/21	50.0	50.175769	50.0	553568.0	1.003515	Y



Calibration

/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

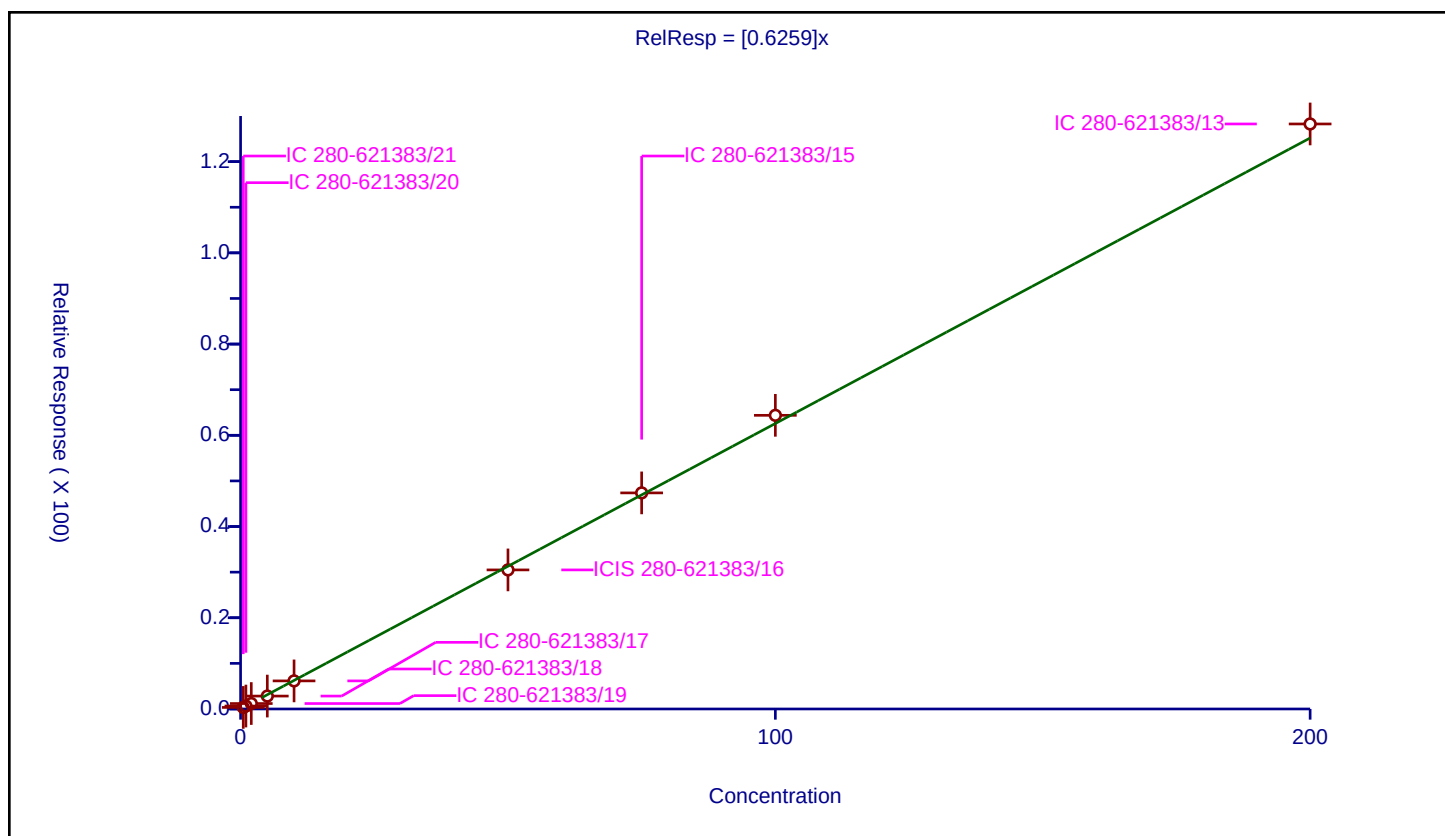
Curve Coefficients

Intercept: 0
Slope: 0.6259

Error Coefficients

Standard Error: 672000
Relative Standard Error: 5.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.341151	50.0	553568.0	0.682301	Y
2	IC 280-621383/20	1.0	0.643352	50.0	557937.0	0.643352	Y
3	IC 280-621383/19	2.0	1.197304	50.0	606446.0	0.598652	Y
4	IC 280-621383/18	5.0	2.831332	50.0	590835.0	0.566266	Y
5	IC 280-621383/17	10.0	6.157092	50.0	594404.0	0.615709	Y
6	ICIS 280-621383/16	50.0	30.493438	50.0	615052.0	0.609869	Y
7	IC 280-621383/15	75.0	47.376677	50.0	617709.0	0.631689	Y
8	IC 280-621383/14	100.0	64.383125	50.0	619031.0	0.643831	Y
9	IC 280-621383/13	200.0	128.255357	50.0	614848.0	0.641277	Y



Calibration

/ Bromobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

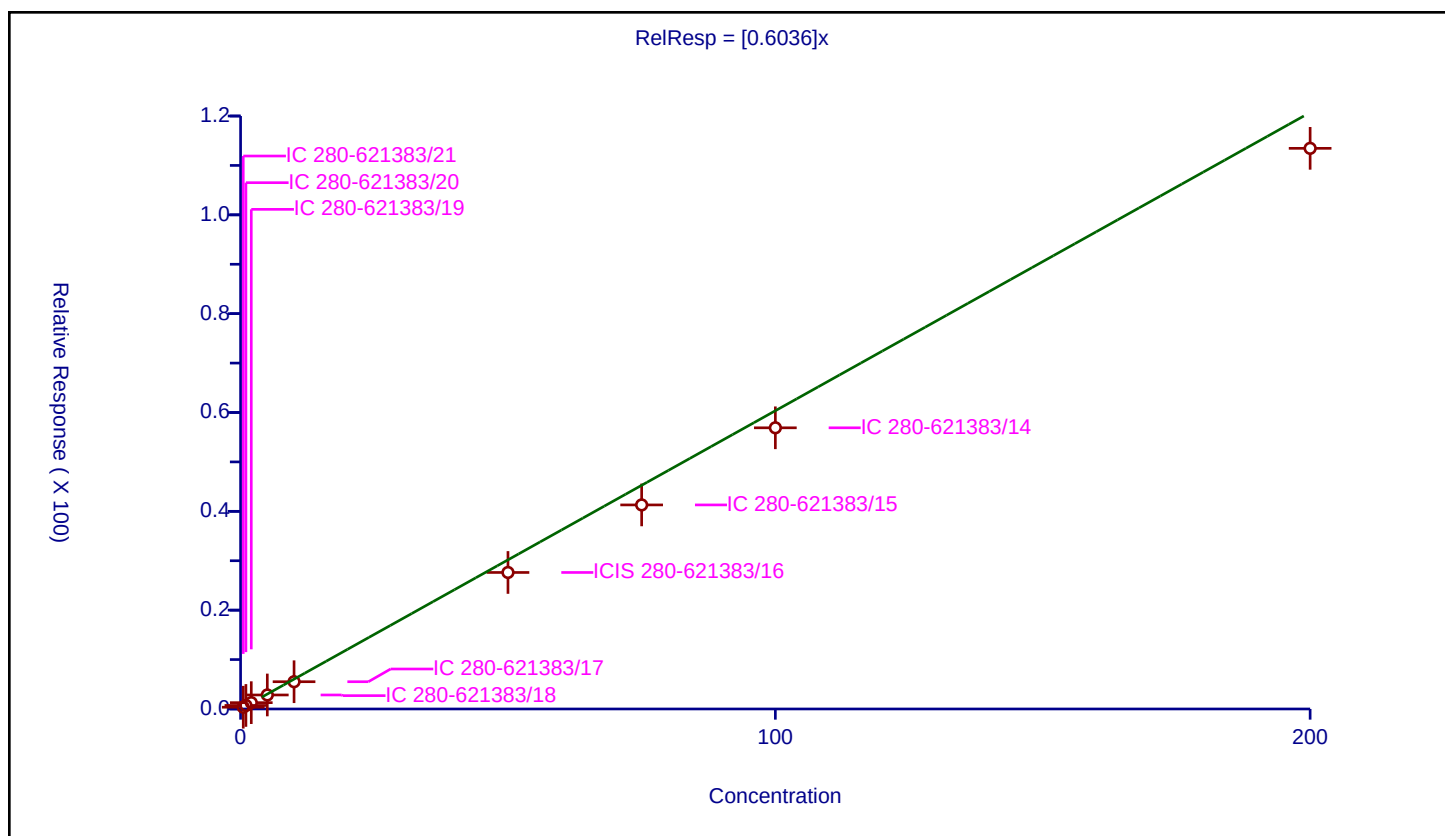
Curve Coefficients

Intercept: 0
Slope: 0.6036

Error Coefficients

Standard Error: 594000
Relative Standard Error: 11.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.35786	50.0	553568.0	0.715721	Y
2	IC 280-621383/20	1.0	0.717106	50.0	557937.0	0.717106	Y
3	IC 280-621383/19	2.0	1.281977	50.0	606446.0	0.640989	Y
4	IC 280-621383/18	5.0	2.834717	50.0	590835.0	0.566943	Y
5	IC 280-621383/17	10.0	5.51788	50.0	594404.0	0.551788	Y
6	ICIS 280-621383/16	50.0	27.626688	50.0	615052.0	0.552534	Y
7	IC 280-621383/15	75.0	41.298654	50.0	617709.0	0.550649	Y
8	IC 280-621383/14	100.0	56.901351	50.0	619031.0	0.569014	Y
9	IC 280-621383/13	200.0	113.460807	50.0	614848.0	0.567304	Y



Calibration

/ trans-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

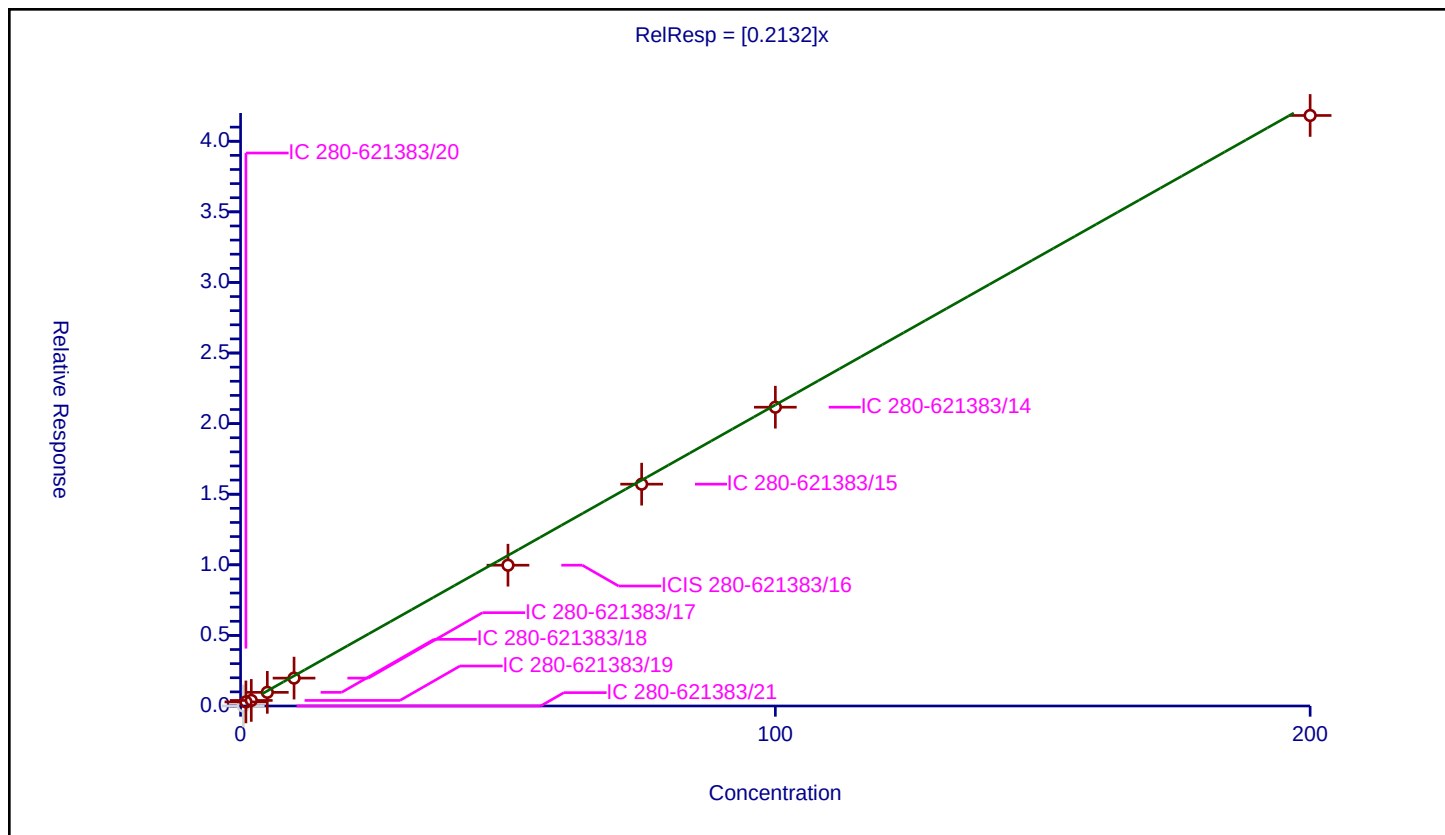
Curve Coefficients

Intercept: 0
Slope: 0.2132

Error Coefficients

Standard Error: 235000
Relative Standard Error: 14.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	0.288294	50.0	557937.0	0.288294	Y
3	IC 280-621383/19	2.0	0.394677	50.0	606446.0	0.197338	Y
4	IC 280-621383/18	5.0	0.966175	50.0	590835.0	0.193235	Y
5	IC 280-621383/17	10.0	1.974331	50.0	594404.0	0.197433	Y
6	ICIS 280-621383/16	50.0	9.972328	50.0	615052.0	0.199447	Y
7	IC 280-621383/15	75.0	15.711039	50.0	617709.0	0.209481	Y
8	IC 280-621383/14	100.0	21.163157	50.0	619031.0	0.211632	Y
9	IC 280-621383/13	200.0	41.826191	50.0	614848.0	0.209131	Y



Calibration

/ 1,2,3-Trichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

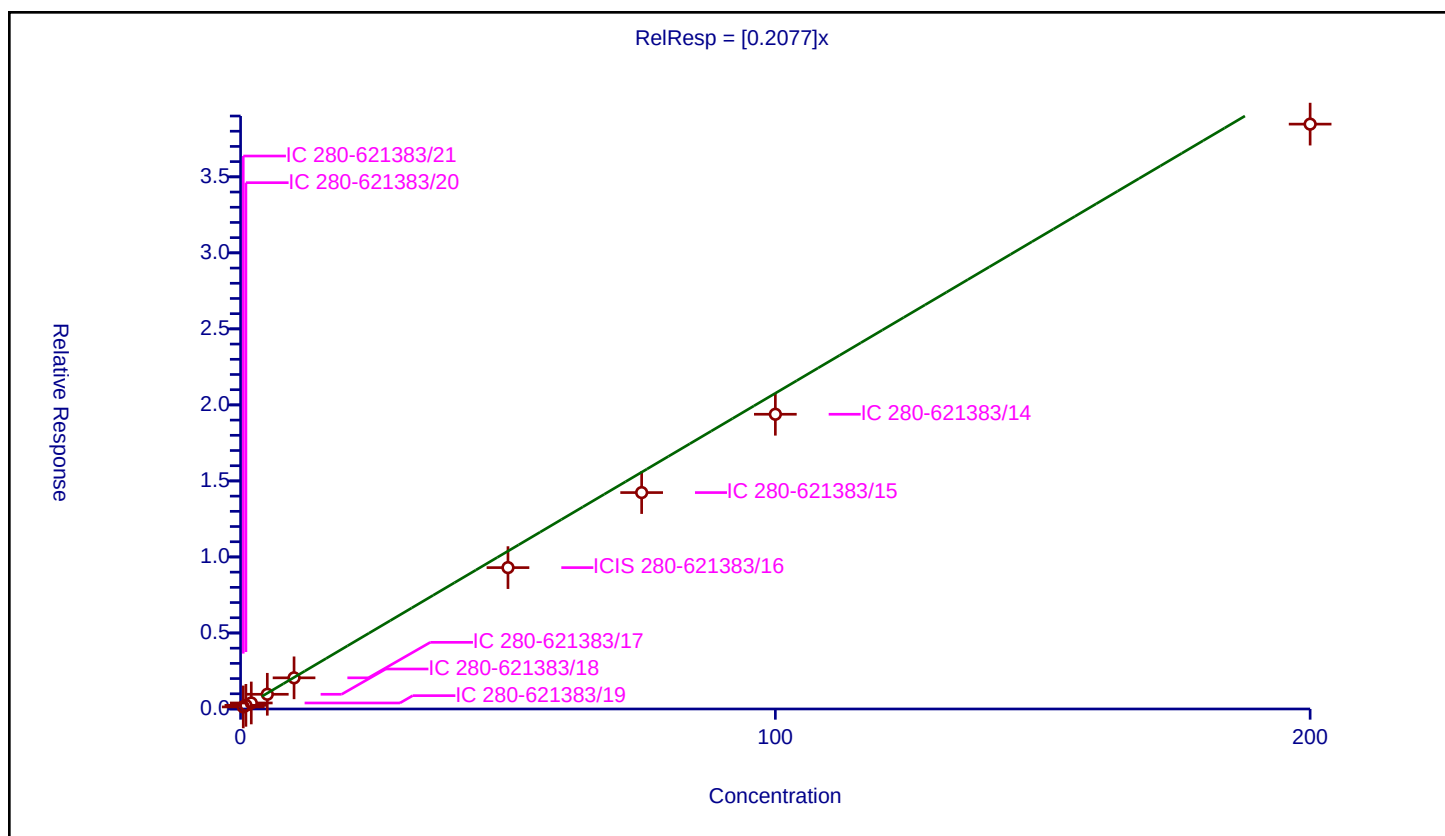
Curve Coefficients

Intercept: 0
Slope: 0.2077

Error Coefficients

Standard Error: 202000
Relative Standard Error: 13.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.135756	50.0	553568.0	0.271511	Y
2	IC 280-621383/20	1.0	0.239005	50.0	557937.0	0.239005	Y
3	IC 280-621383/19	2.0	0.396325	50.0	606446.0	0.198163	Y
4	IC 280-621383/18	5.0	0.967106	50.0	590835.0	0.193421	Y
5	IC 280-621383/17	10.0	2.049027	50.0	594404.0	0.204903	Y
6	ICIS 280-621383/16	50.0	9.297832	50.0	615052.0	0.185957	Y
7	IC 280-621383/15	75.0	14.233401	50.0	617709.0	0.189779	Y
8	IC 280-621383/14	100.0	19.385297	50.0	619031.0	0.193853	Y
9	IC 280-621383/13	200.0	38.467231	50.0	614848.0	0.192336	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

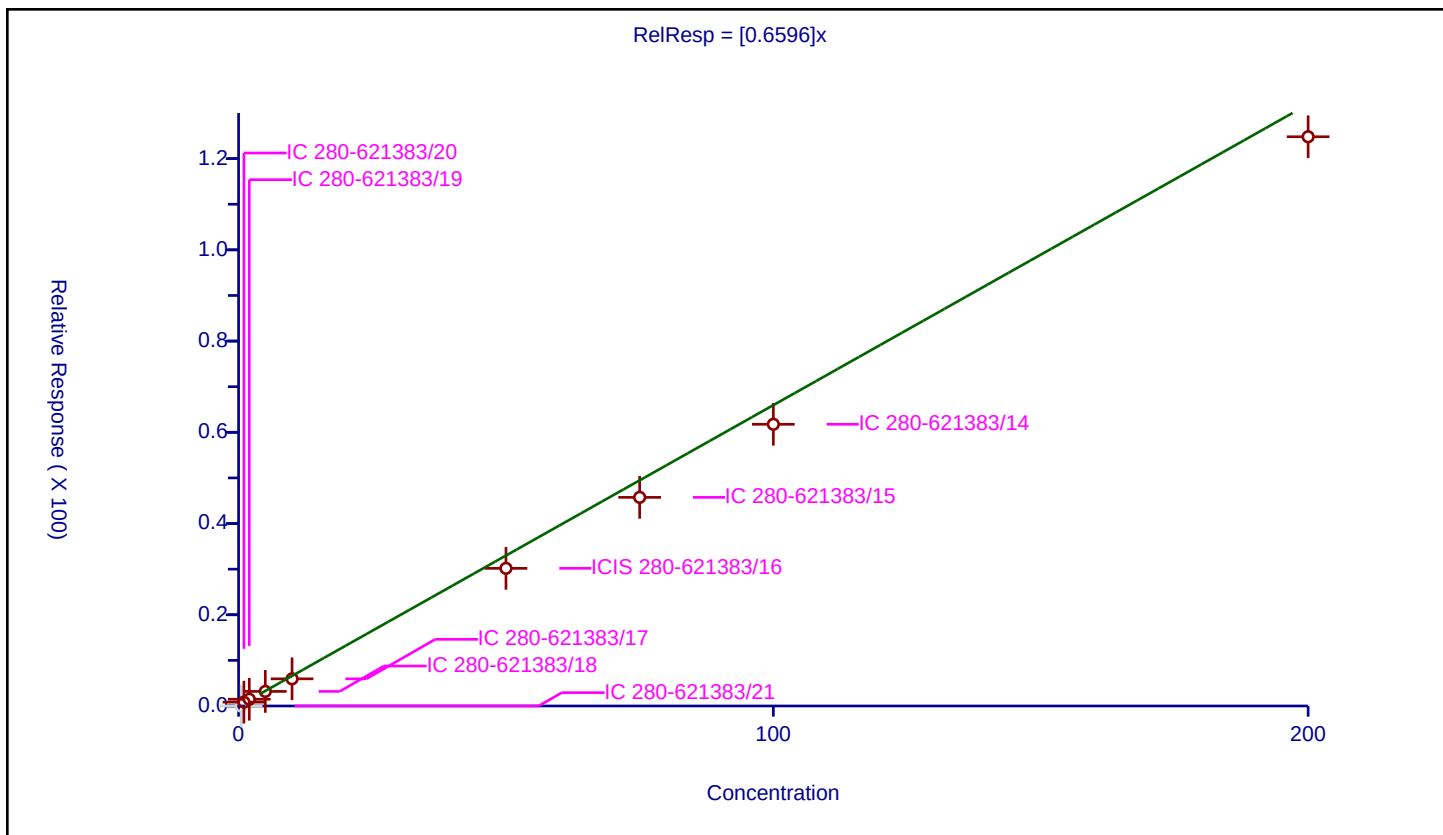
Curve Coefficients

Intercept: 0
 Slope: 0.6596

Error Coefficients

Standard Error: 697000
 Relative Standard Error: 13.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	0.847139	50.0	557937.0	0.847139	Y
3	IC 280-621383/19	2.0	1.480593	50.0	606446.0	0.740297	Y
4	IC 280-621383/18	5.0	3.194124	50.0	590835.0	0.638825	Y
5	IC 280-621383/17	10.0	5.95605	50.0	594404.0	0.595605	Y
6	ICIS 280-621383/16	50.0	30.177692	50.0	615052.0	0.603554	Y
7	IC 280-621383/15	75.0	45.735694	50.0	617709.0	0.609809	Y
8	IC 280-621383/14	100.0	61.754823	50.0	619031.0	0.617548	Y
9	IC 280-621383/13	200.0	124.797186	50.0	614848.0	0.623986	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

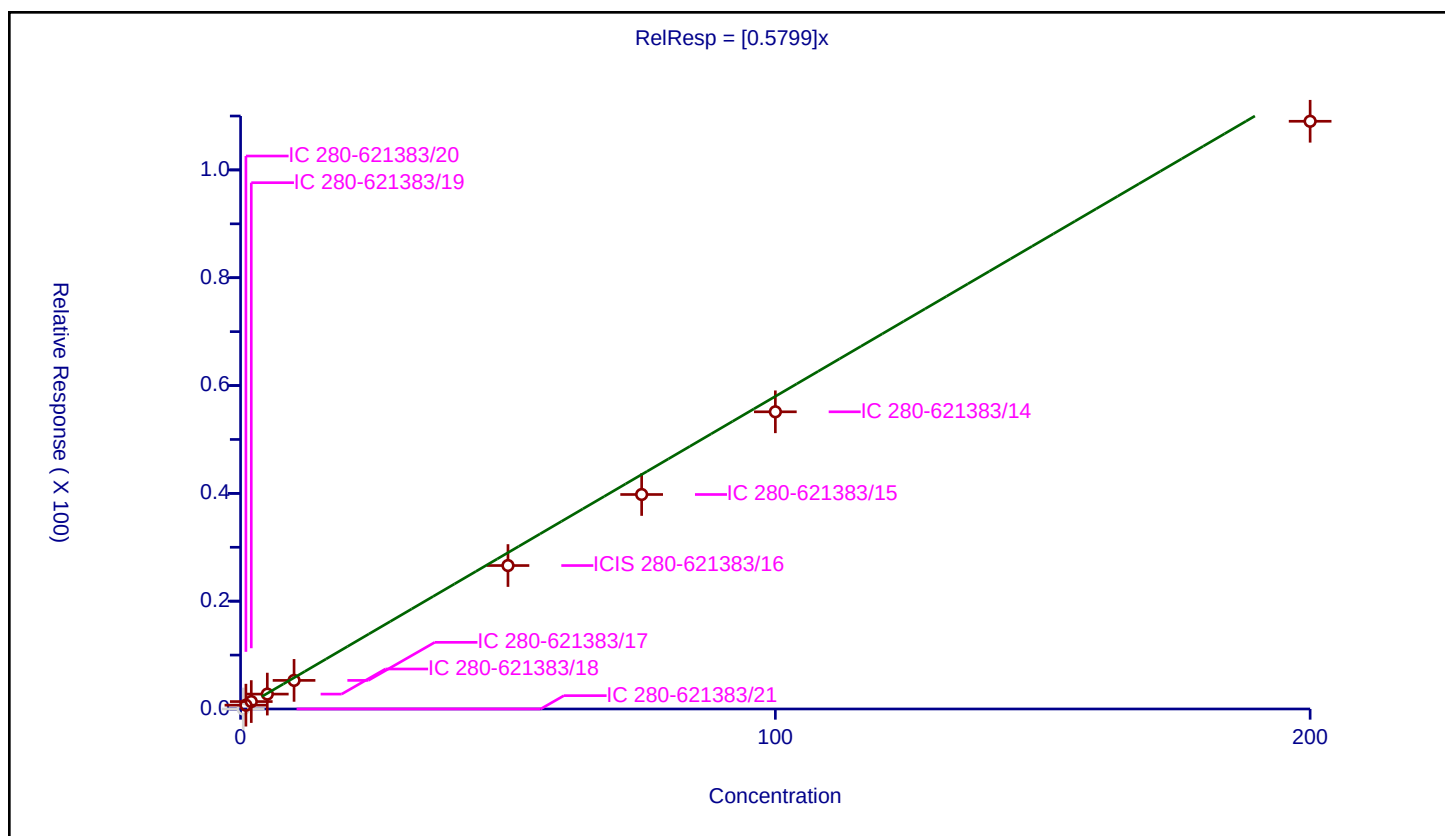
Curve Coefficients

Intercept: 0
 Slope: 0.5799

Error Coefficients

Standard Error: 611000
 Relative Standard Error: 12.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	0.709041	50.0	557937.0	0.709041	Y
3	IC 280-621383/19	2.0	1.377452	50.0	606446.0	0.688726	Y
4	IC 280-621383/18	5.0	2.761431	50.0	590835.0	0.552286	Y
5	IC 280-621383/17	10.0	5.302959	50.0	594404.0	0.530296	Y
6	ICIS 280-621383/16	50.0	26.611408	50.0	615052.0	0.532228	Y
7	IC 280-621383/15	75.0	39.789691	50.0	617709.0	0.530529	Y
8	IC 280-621383/14	100.0	55.128338	50.0	619031.0	0.551283	Y
9	IC 280-621383/13	200.0	109.024751	50.0	614848.0	0.545124	Y



Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

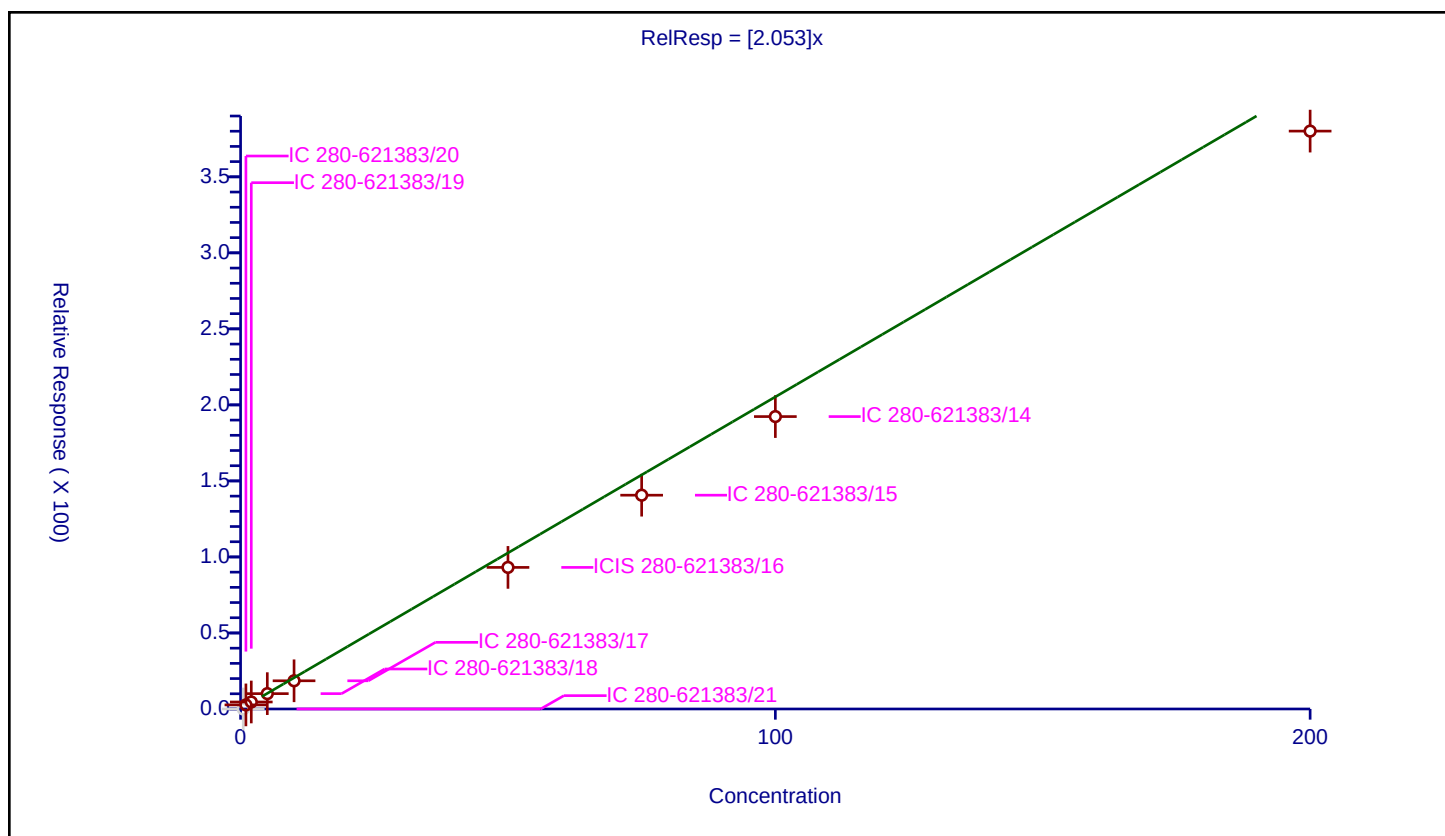
Curve Coefficients

Intercept: 0
Slope: 2.053

Error Coefficients

Standard Error: 2130000
Relative Standard Error: 14.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	2.690268	50.0	557937.0	2.690268	Y
3	IC 280-621383/19	2.0	4.598184	50.0	606446.0	2.299092	Y
4	IC 280-621383/18	5.0	10.08945	50.0	590835.0	2.01789	Y
5	IC 280-621383/17	10.0	18.546309	50.0	594404.0	1.854631	Y
6	ICIS 280-621383/16	50.0	93.117086	50.0	615052.0	1.862342	Y
7	IC 280-621383/15	75.0	140.619288	50.0	617709.0	1.874924	Y
8	IC 280-621383/14	100.0	192.324698	50.0	619031.0	1.923247	Y
9	IC 280-621383/13	200.0	380.069139	50.0	614848.0	1.900346	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

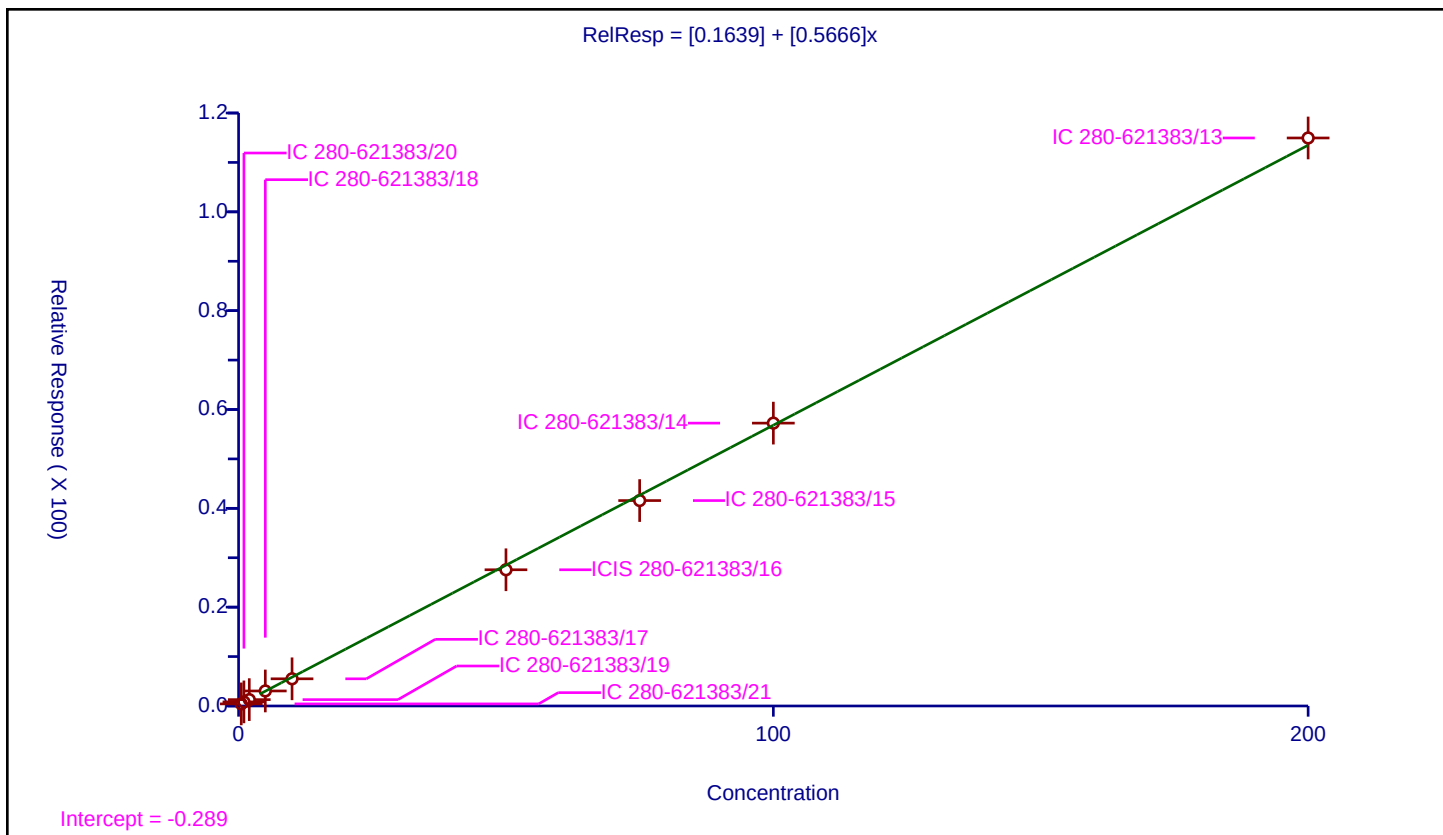
Curve Coefficients

Intercept: 0.1639
 Slope: 0.5666

Error Coefficients

Standard Error: 642000
 Relative Standard Error: 7.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.424338	50.0	553568.0	0.848676	Y
2	IC 280-621383/20	1.0	0.8259	50.0	557937.0	0.8259	Y
3	IC 280-621383/19	2.0	1.289233	50.0	606446.0	0.644616	Y
4	IC 280-621383/18	5.0	3.041035	50.0	590835.0	0.608207	Y
5	IC 280-621383/17	10.0	5.500384	50.0	594404.0	0.550038	Y
6	ICIS 280-621383/16	50.0	27.567019	50.0	615052.0	0.55134	Y
7	IC 280-621383/15	75.0	41.572407	50.0	617709.0	0.554299	Y
8	IC 280-621383/14	100.0	57.242368	50.0	619031.0	0.572424	Y
9	IC 280-621383/13	200.0	114.946865	50.0	614848.0	0.574734	Y



Calibration

/ tert-Butylbenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

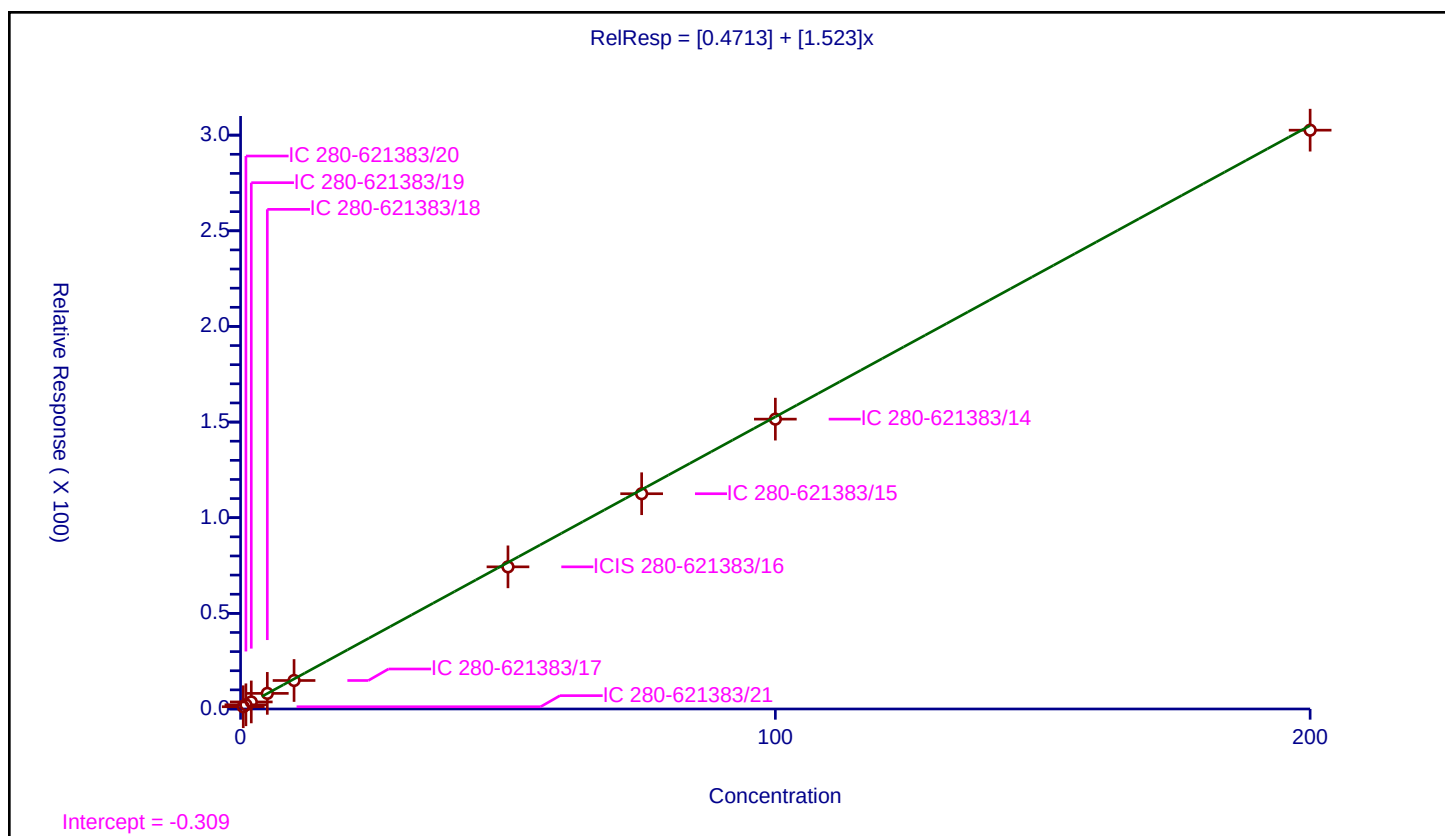
Curve Coefficients

Intercept: 0.4713
 Slope: 1.523

Error Coefficients

Standard Error: 1700000
 Relative Standard Error: 6.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	1.174833	50.0	553568.0	2.349666	Y
2	IC 280-621383/20	1.0	2.189674	50.0	557937.0	2.189674	Y
3	IC 280-621383/19	2.0	3.685406	50.0	606446.0	1.842703	Y
4	IC 280-621383/18	5.0	8.159892	50.0	590835.0	1.631978	Y
5	IC 280-621383/17	10.0	14.895845	50.0	594404.0	1.489585	Y
6	ICIS 280-621383/16	50.0	74.305668	50.0	615052.0	1.486113	Y
7	IC 280-621383/15	75.0	112.533167	50.0	617709.0	1.500442	Y
8	IC 280-621383/14	100.0	151.528276	50.0	619031.0	1.515283	Y
9	IC 280-621383/13	200.0	302.597797	50.0	614848.0	1.512989	Y



Calibration

/ 1,2,4-Trimethylbenzene

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

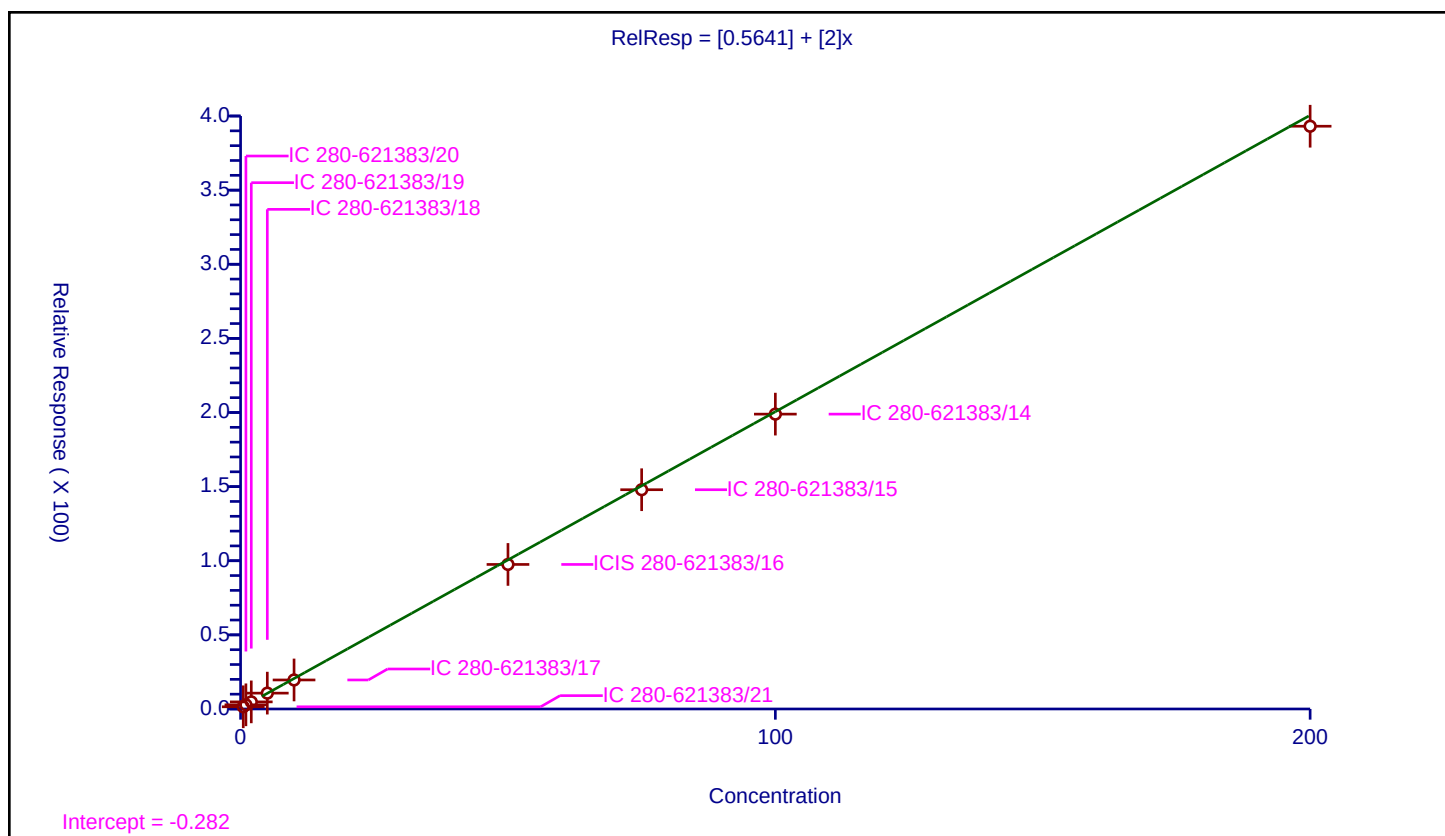
Curve Coefficients

Intercept: 0.5641
Slope: 2

Error Coefficients

Standard Error: 2210000
Relative Standard Error: 6.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	1.485996	50.0	553568.0	2.971993	Y
2	IC 280-621383/20	1.0	2.823527	50.0	557937.0	2.823527	Y
3	IC 280-621383/19	2.0	4.799191	50.0	606446.0	2.399595	Y
4	IC 280-621383/18	5.0	10.693341	50.0	590835.0	2.138668	Y
5	IC 280-621383/17	10.0	19.578351	50.0	594404.0	1.957835	Y
6	ICIS 280-621383/16	50.0	97.508991	50.0	615052.0	1.95018	Y
7	IC 280-621383/15	75.0	147.91091	50.0	617709.0	1.972145	Y
8	IC 280-621383/14	100.0	198.915402	50.0	619031.0	1.989154	Y
9	IC 280-621383/13	200.0	393.11838	50.0	614848.0	1.965592	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

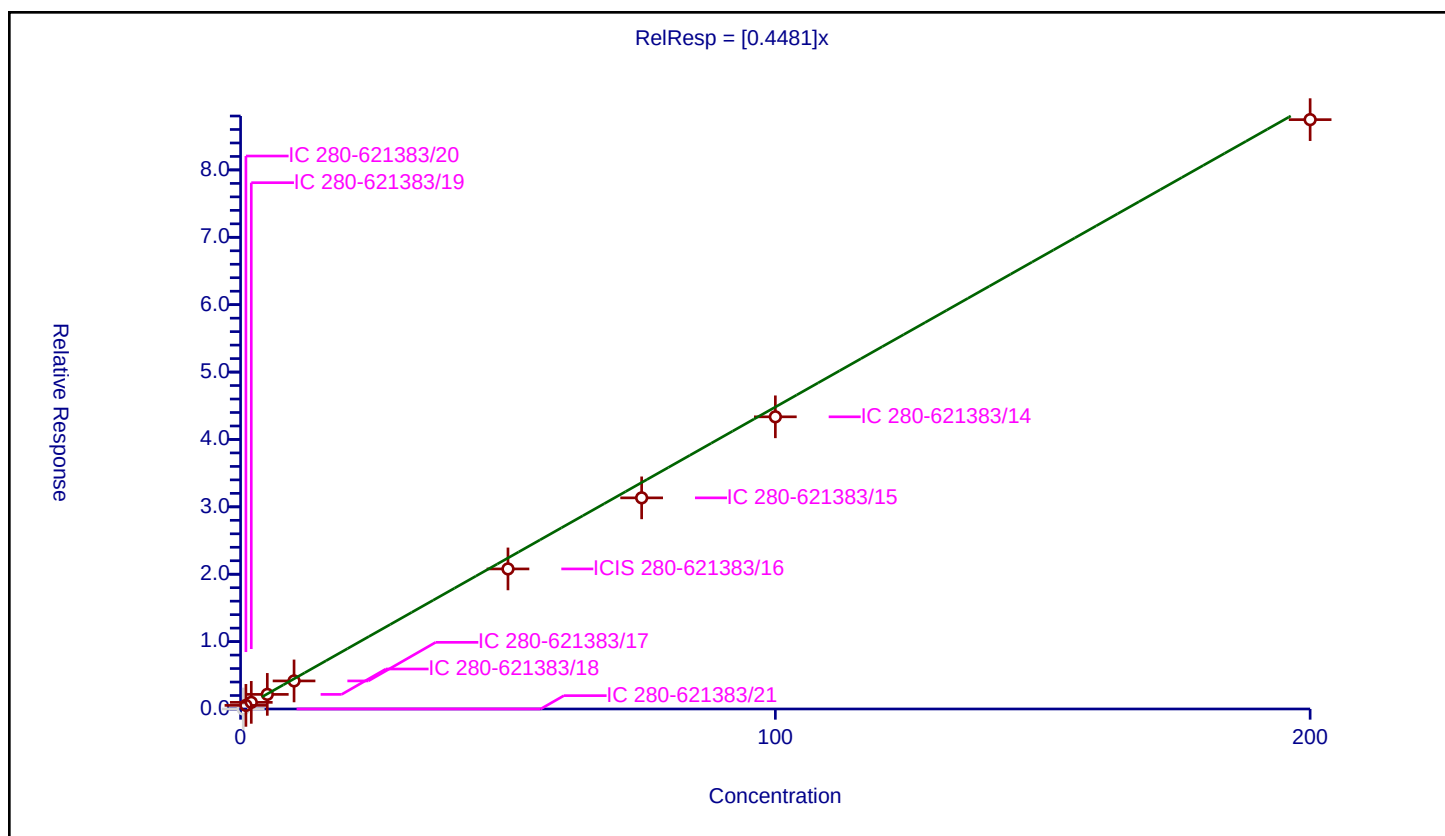
Curve Coefficients

Intercept: 0
 Slope: 0.4481

Error Coefficients

Standard Error: 487000
 Relative Standard Error: 9.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	0.537874	50.0	557937.0	0.537874	Y
3	IC 280-621383/19	2.0	0.985001	50.0	606446.0	0.492501	Y
4	IC 280-621383/18	5.0	2.167187	50.0	590835.0	0.433437	Y
5	IC 280-621383/17	10.0	4.166863	50.0	594404.0	0.416686	Y
6	ICIS 280-621383/16	50.0	20.787755	50.0	615052.0	0.415755	Y
7	IC 280-621383/15	75.0	31.333686	50.0	617709.0	0.417782	Y
8	IC 280-621383/14	100.0	43.359137	50.0	619031.0	0.433591	Y
9	IC 280-621383/13	200.0	87.463162	50.0	614848.0	0.437316	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

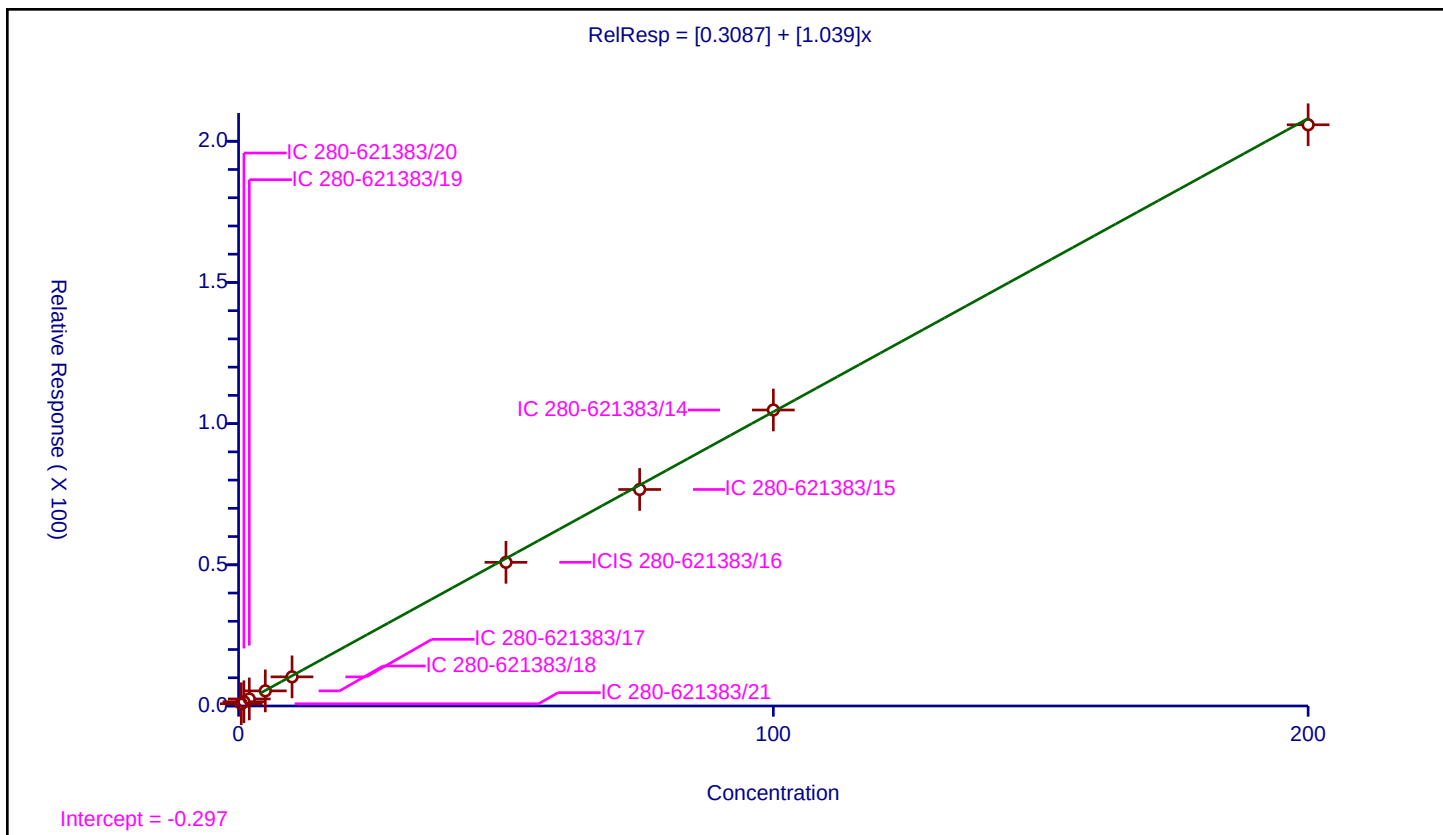
Curve Coefficients

Intercept: 0.3087
 Slope: 1.039

Error Coefficients

Standard Error: 1160000
 Relative Standard Error: 6.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.786534	50.0	553568.0	1.573068	Y
2	IC 280-621383/20	1.0	1.49775	50.0	557937.0	1.49775	Y
3	IC 280-621383/19	2.0	2.493874	50.0	606446.0	1.246937	Y
4	IC 280-621383/18	5.0	5.353779	50.0	590835.0	1.070756	Y
5	IC 280-621383/17	10.0	10.316216	50.0	594404.0	1.031622	Y
6	ICIS 280-621383/16	50.0	50.88269	50.0	615052.0	1.017654	Y
7	IC 280-621383/15	75.0	76.676396	50.0	617709.0	1.022352	Y
8	IC 280-621383/14	100.0	104.826333	50.0	619031.0	1.048263	Y
9	IC 280-621383/13	200.0	205.831116	50.0	614848.0	1.029156	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

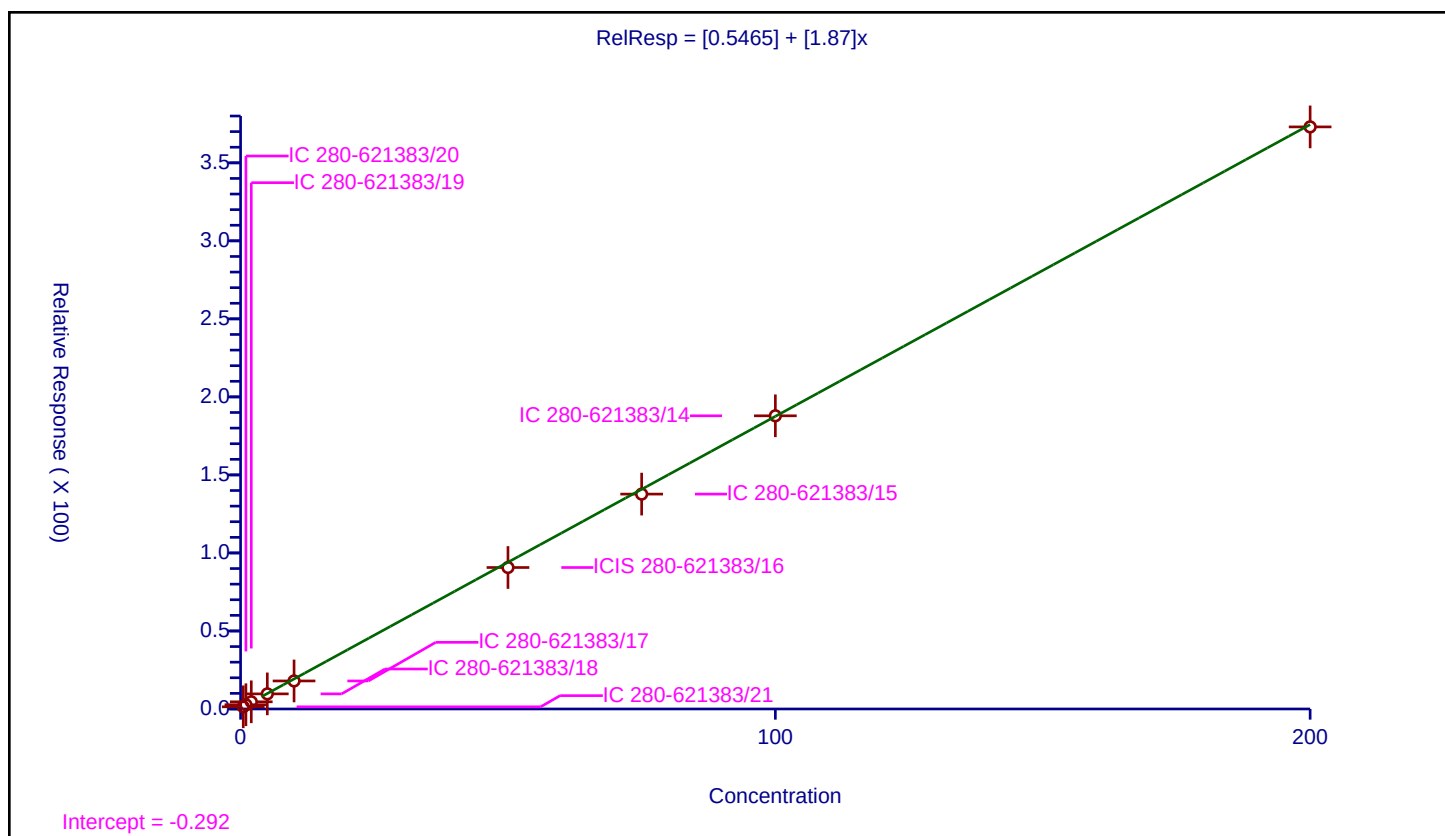
Curve Coefficients

Intercept: 0.5465
 Slope: 1.87

Error Coefficients

Standard Error: 2090000
 Relative Standard Error: 8.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	1.390976	50.0	553568.0	2.781953	Y
2	IC 280-621383/20	1.0	2.722709	50.0	557937.0	2.722709	Y
3	IC 280-621383/19	2.0	4.601152	50.0	606446.0	2.300576	Y
4	IC 280-621383/18	5.0	9.678421	50.0	590835.0	1.935684	Y
5	IC 280-621383/17	10.0	17.96926	50.0	594404.0	1.796926	Y
6	ICIS 280-621383/16	50.0	90.673878	50.0	615052.0	1.813478	Y
7	IC 280-621383/15	75.0	137.708371	50.0	617709.0	1.836112	Y
8	IC 280-621383/14	100.0	187.886875	50.0	619031.0	1.878869	Y
9	IC 280-621383/13	200.0	373.033742	50.0	614848.0	1.865169	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

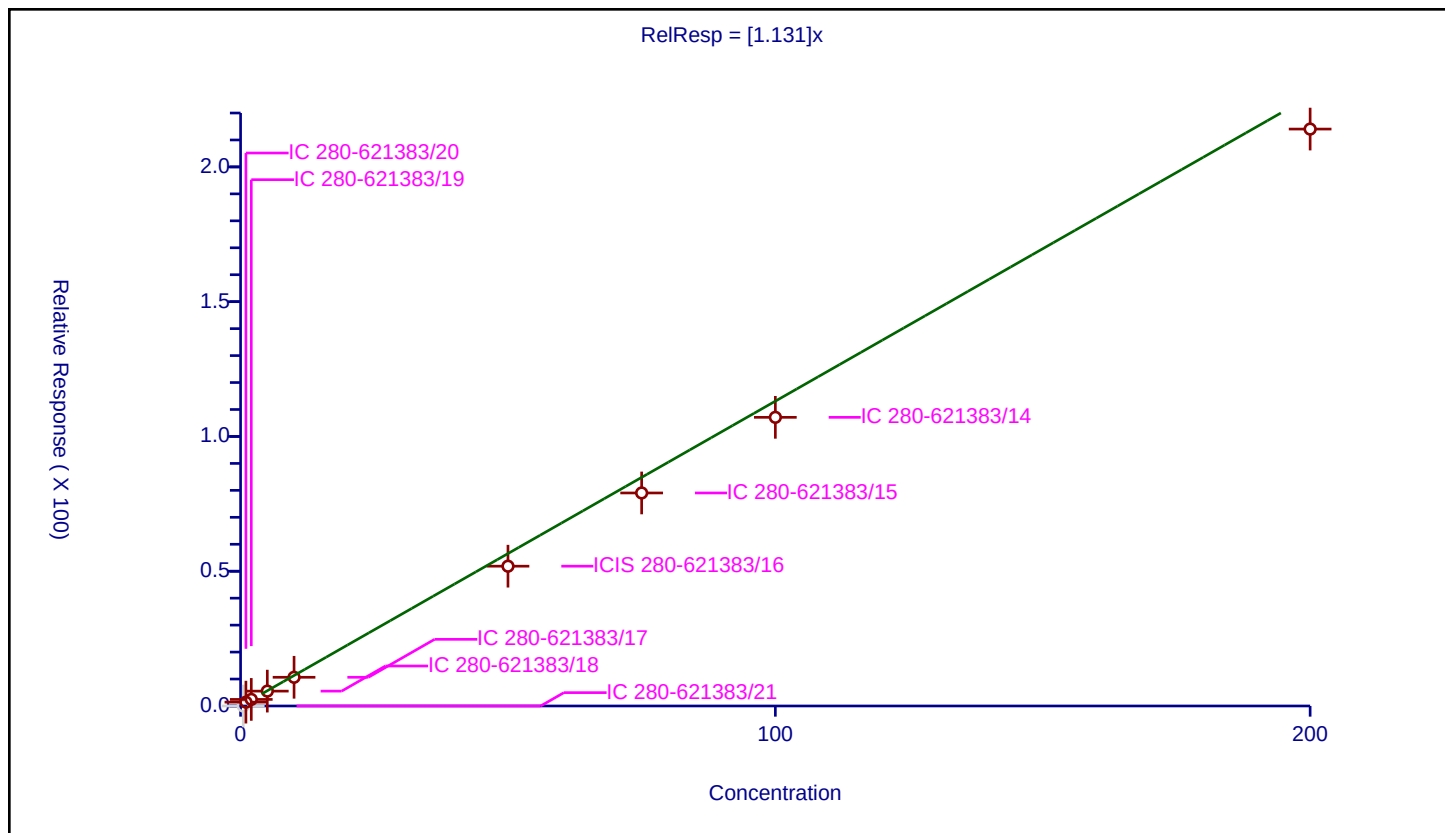
Curve Coefficients

Intercept: 0
 Slope: 1.131

Error Coefficients

Standard Error: 1200000
 Relative Standard Error: 11.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	1.427401	50.0	557937.0	1.427401	Y
3	IC 280-621383/19	2.0	2.438387	50.0	606446.0	1.219193	Y
4	IC 280-621383/18	5.0	5.520238	50.0	590835.0	1.104048	Y
5	IC 280-621383/17	10.0	10.646294	50.0	594404.0	1.064629	Y
6	ICIS 280-621383/16	50.0	51.864151	50.0	615052.0	1.037283	Y
7	IC 280-621383/15	75.0	79.034222	50.0	617709.0	1.05379	Y
8	IC 280-621383/14	100.0	107.095202	50.0	619031.0	1.070952	Y
9	IC 280-621383/13	200.0	214.048431	50.0	614848.0	1.070242	Y



Calibration

/ n-Butylbenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

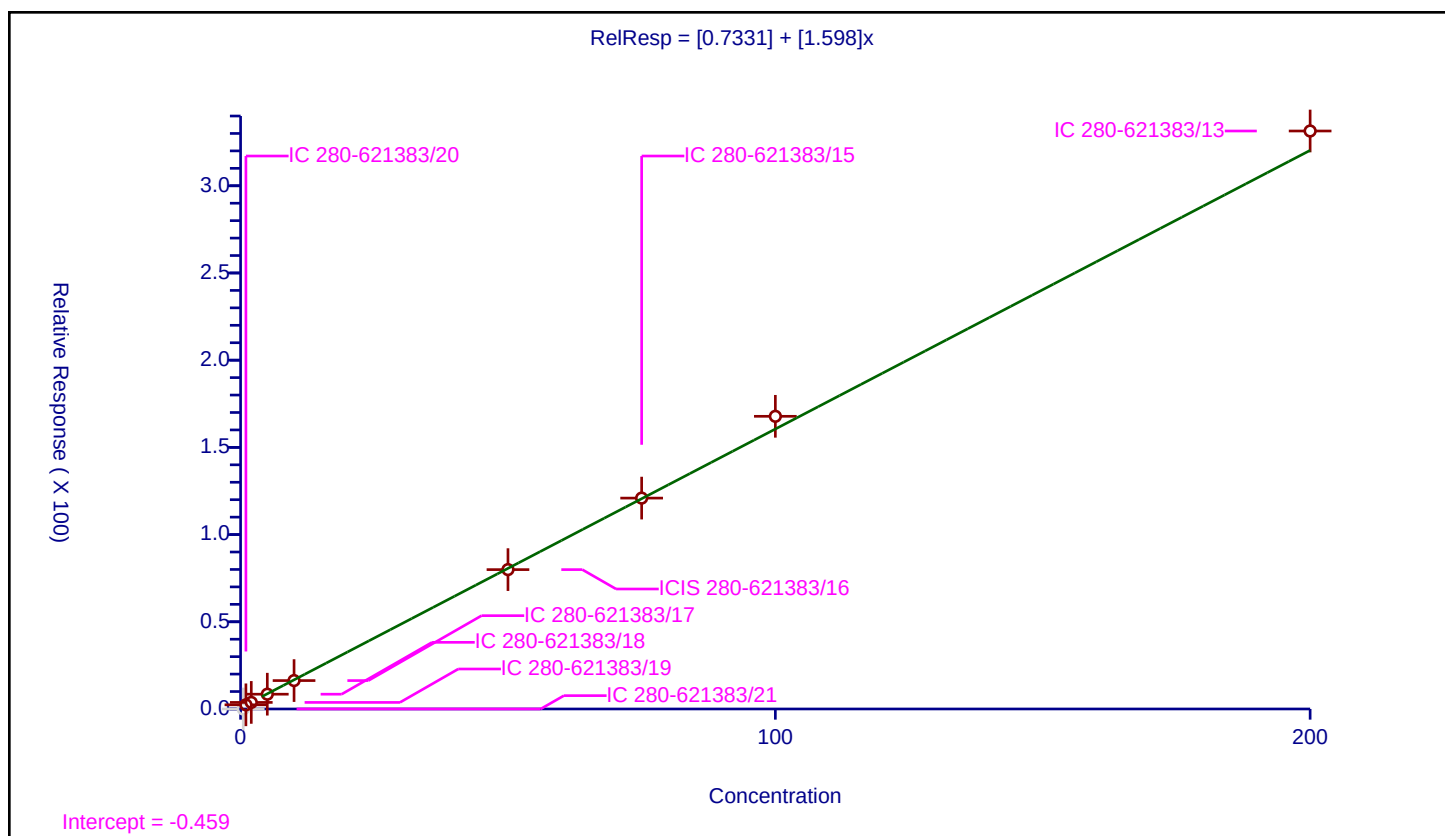
Curve Coefficients

Intercept: 0.7331
 Slope: 1.598

Error Coefficients

Standard Error: 2010000
 Relative Standard Error: 3.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	2.385574	50.0	557937.0	2.385574	Y
3	IC 280-621383/19	2.0	3.76266	50.0	606446.0	1.88133	Y
4	IC 280-621383/18	5.0	8.479271	50.0	590835.0	1.695854	Y
5	IC 280-621383/17	10.0	16.291024	50.0	594404.0	1.629102	Y
6	ICIS 280-621383/16	50.0	79.91495	50.0	615052.0	1.598299	Y
7	IC 280-621383/15	75.0	120.922716	50.0	617709.0	1.612303	Y
8	IC 280-621383/14	100.0	167.814617	50.0	619031.0	1.678146	Y
9	IC 280-621383/13	200.0	331.409796	50.0	614848.0	1.657049	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

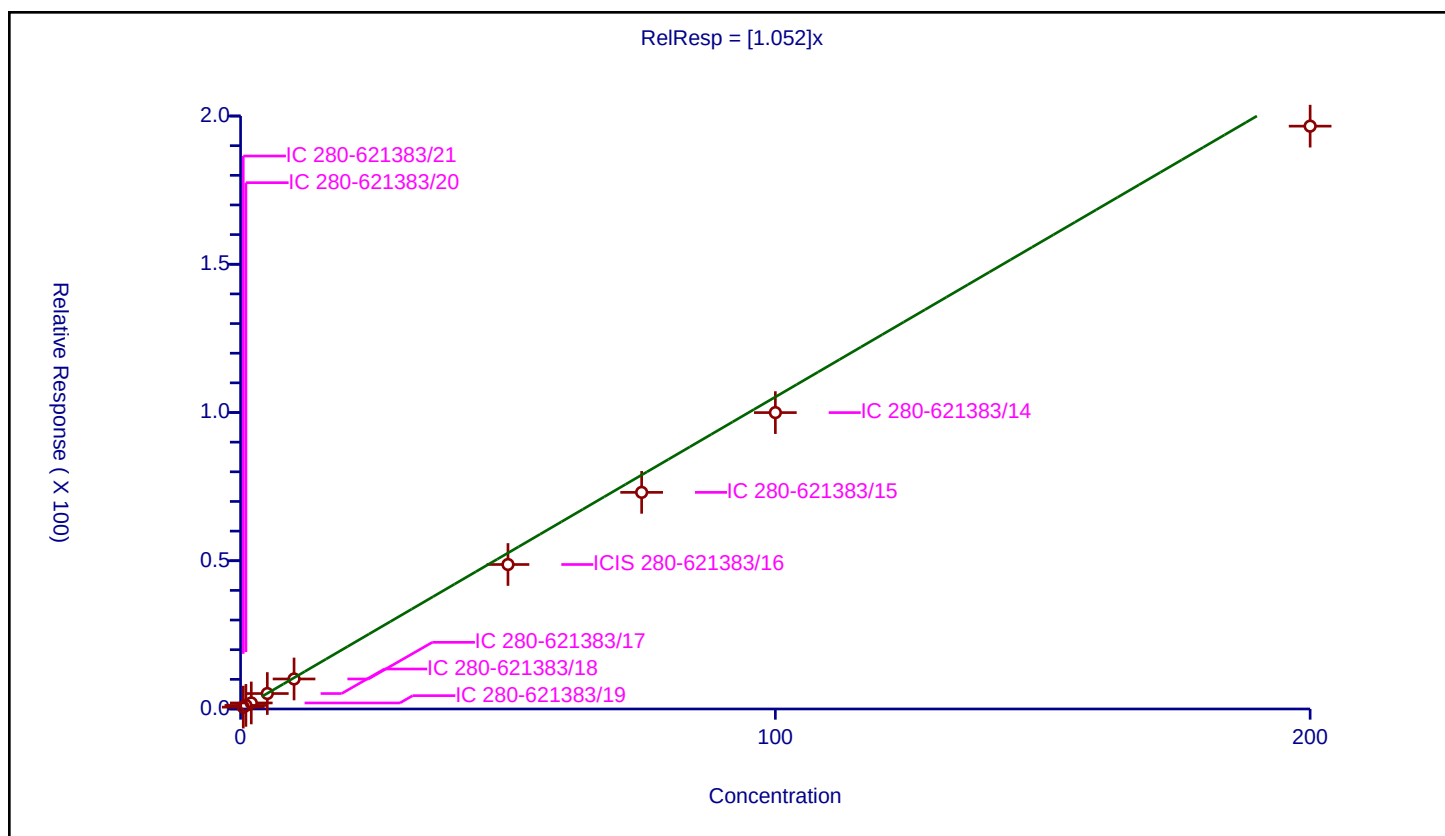
Curve Coefficients

Intercept: 0
 Slope: 1.052

Error Coefficients

Standard Error: 1030000
 Relative Standard Error: 10.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.627294	50.0	553568.0	1.254588	Y
2	IC 280-621383/20	1.0	1.212861	50.0	557937.0	1.212861	Y
3	IC 280-621383/19	2.0	2.035383	50.0	606446.0	1.017692	Y
4	IC 280-621383/18	5.0	5.208645	50.0	590835.0	1.041729	Y
5	IC 280-621383/17	10.0	10.126278	50.0	594404.0	1.012628	Y
6	ICIS 280-621383/16	50.0	48.739375	50.0	615052.0	0.974787	Y
7	IC 280-621383/15	75.0	73.06782	50.0	617709.0	0.974238	Y
8	IC 280-621383/14	100.0	99.966964	50.0	619031.0	0.99967	Y
9	IC 280-621383/13	200.0	196.584928	50.0	614848.0	0.982925	Y



Calibration

/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

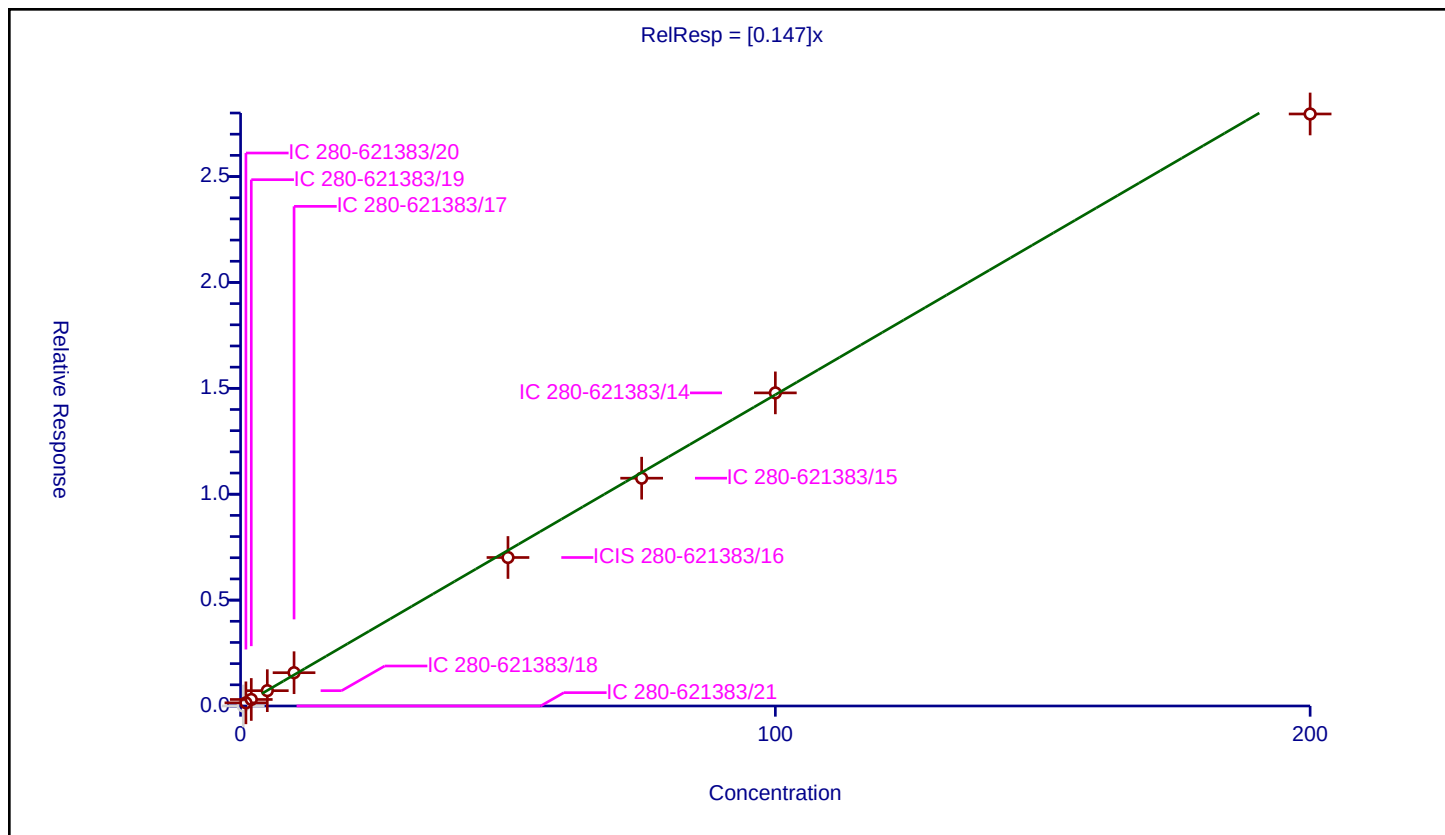
Curve Coefficients

Intercept: 0
Slope: 0.147

Error Coefficients

Standard Error: 159000
Relative Standard Error: 4.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	0.148852	50.0	557937.0	0.148852	Y
3	IC 280-621383/19	2.0	0.307777	50.0	606446.0	0.153888	Y
4	IC 280-621383/18	5.0	0.72296	50.0	590835.0	0.144592	Y
5	IC 280-621383/17	10.0	1.572079	50.0	594404.0	0.157208	Y
6	ICIS 280-621383/16	50.0	7.012171	50.0	615052.0	0.140243	Y
7	IC 280-621383/15	75.0	10.757088	50.0	617709.0	0.143428	Y
8	IC 280-621383/14	100.0	14.784639	50.0	619031.0	0.147846	Y
9	IC 280-621383/13	200.0	27.954958	50.0	614848.0	0.139775	Y



Calibration

/ 1,2,4-Trichlorobenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

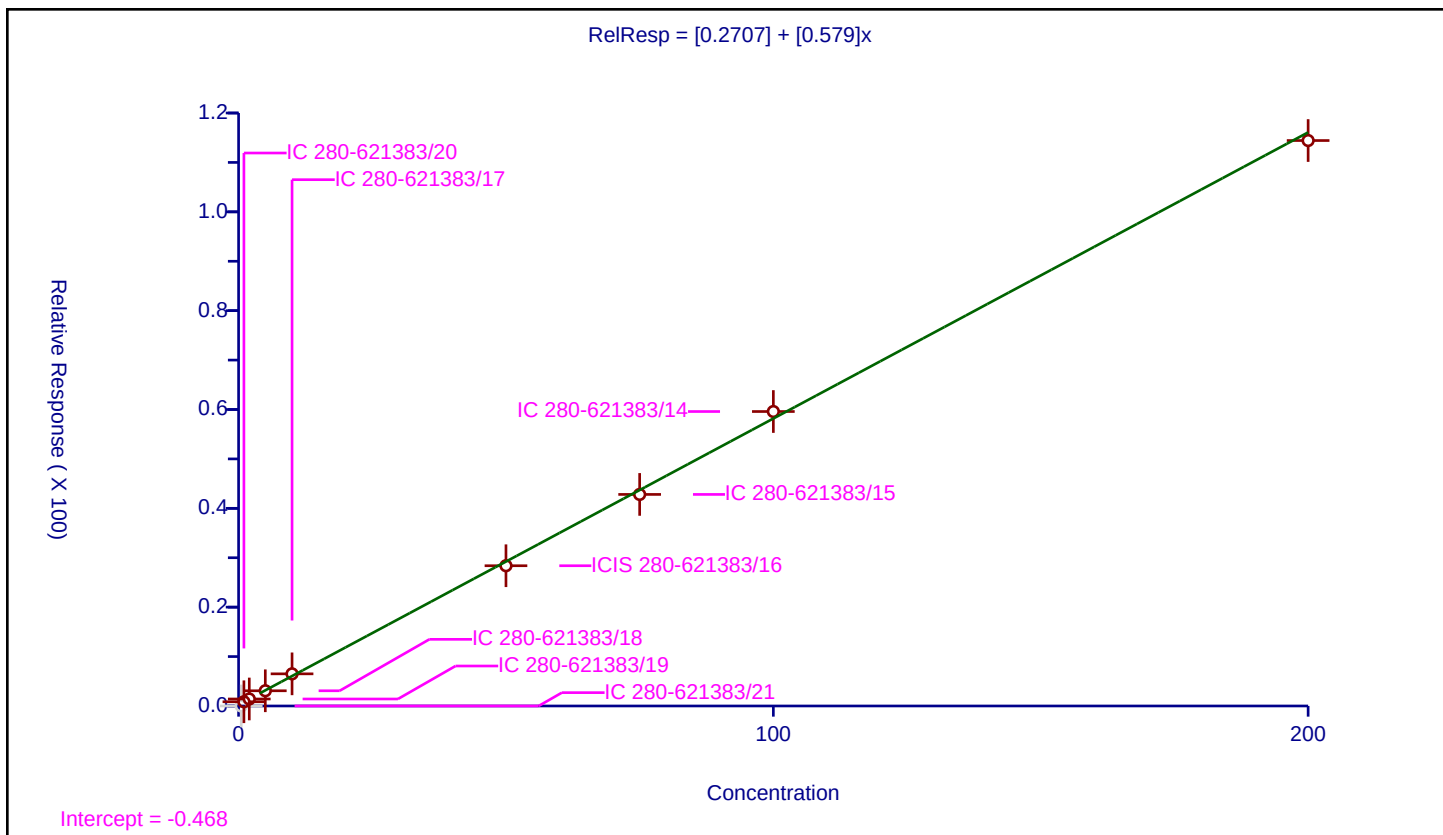
Curve Coefficients

Intercept: 0.2707
 Slope: 0.579

Error Coefficients

Standard Error: 699000
 Relative Standard Error: 3.9
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	0.852695	50.0	557937.0	0.852695	Y
3	IC 280-621383/19	2.0	1.41513	50.0	606446.0	0.707565	Y
4	IC 280-621383/18	5.0	3.07717	50.0	590835.0	0.615434	Y
5	IC 280-621383/17	10.0	6.505087	50.0	594404.0	0.650509	Y
6	ICIS 280-621383/16	50.0	28.382885	50.0	615052.0	0.567658	Y
7	IC 280-621383/15	75.0	42.811583	50.0	617709.0	0.570821	Y
8	IC 280-621383/14	100.0	59.5912	50.0	619031.0	0.595912	Y
9	IC 280-621383/13	200.0	114.42942	50.0	614848.0	0.572147	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

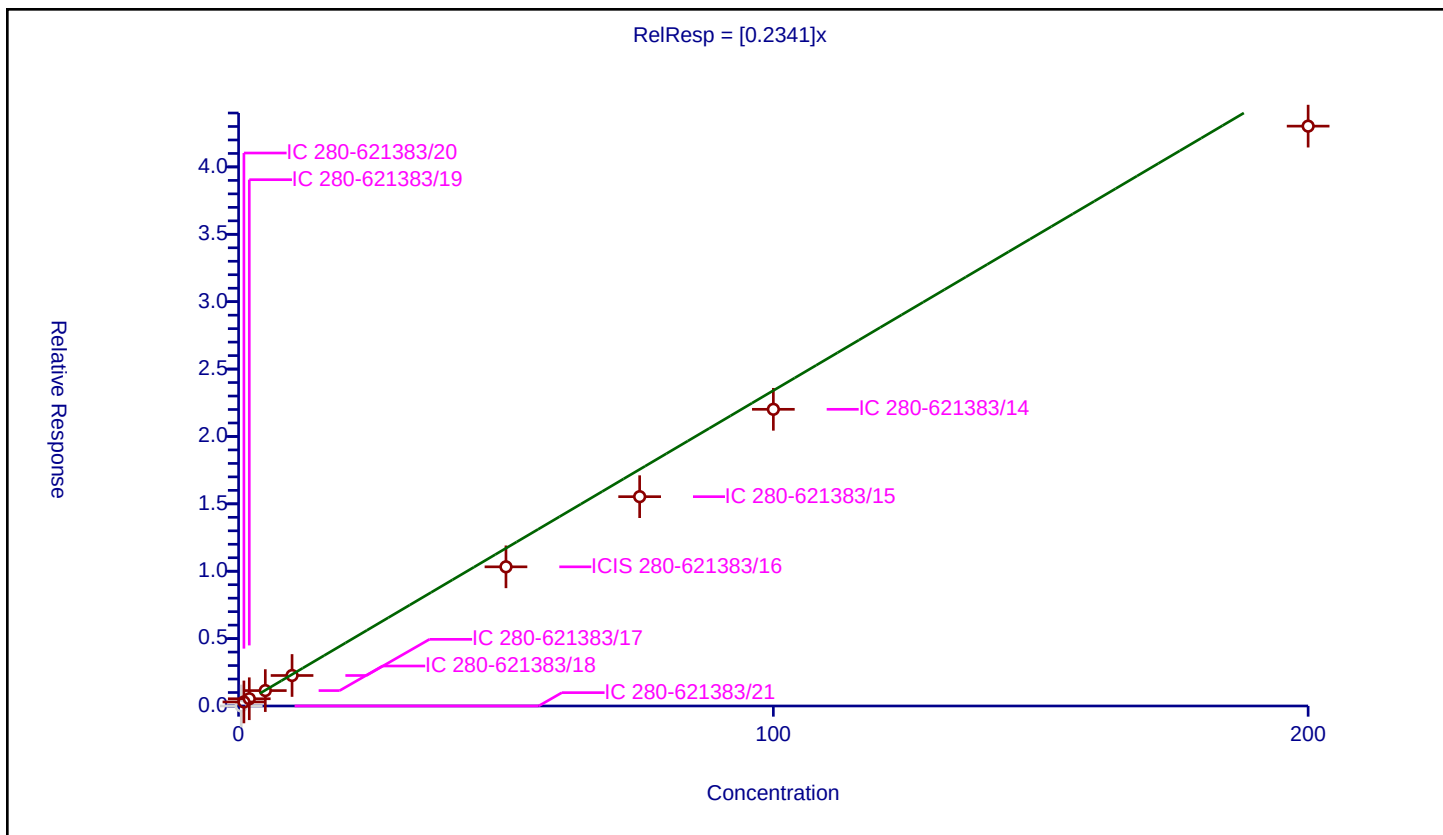
Curve Coefficients

Intercept: 0
 Slope: 0.2341

Error Coefficients

Standard Error: 241000
 Relative Standard Error: 14.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.0	50.0	553568.0	0.0	N
2	IC 280-621383/20	1.0	0.299855	50.0	557937.0	0.299855	Y
3	IC 280-621383/19	2.0	0.537641	50.0	606446.0	0.26882	Y
4	IC 280-621383/18	5.0	1.143043	50.0	590835.0	0.228609	Y
5	IC 280-621383/17	10.0	2.263444	50.0	594404.0	0.226344	Y
6	ICIS 280-621383/16	50.0	10.325956	50.0	615052.0	0.206519	Y
7	IC 280-621383/15	75.0	15.53288	50.0	617709.0	0.207105	Y
8	IC 280-621383/14	100.0	22.015295	50.0	619031.0	0.220153	Y
9	IC 280-621383/13	200.0	43.026813	50.0	614848.0	0.215134	Y



Calibration

/ Naphthalene

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

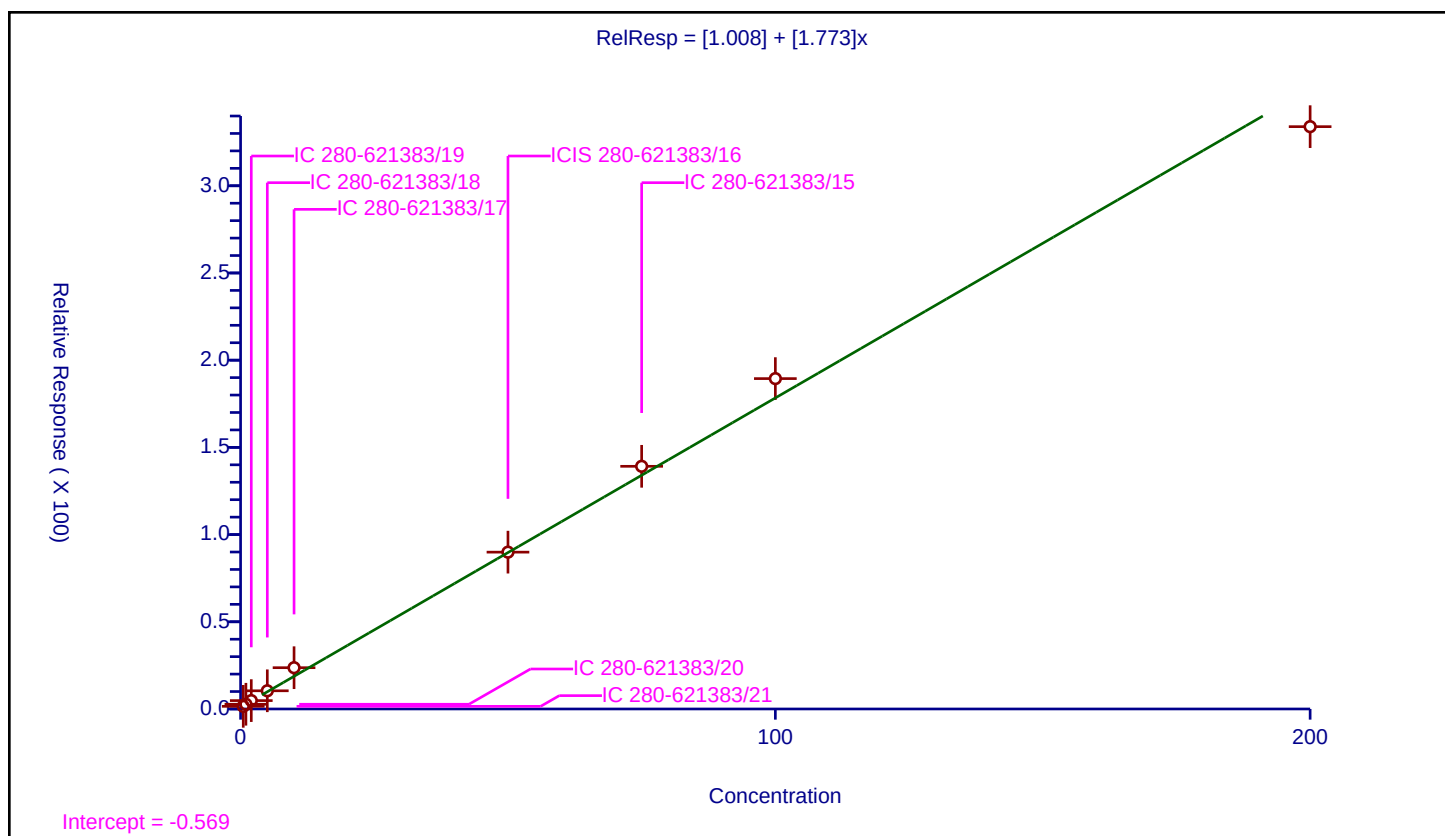
Curve Coefficients

Intercept: 1.008
Slope: 1.773

Error Coefficients

Standard Error: 1950000
Relative Standard Error: 19.7
Correlation Coefficient: 0.995
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	1.524745	50.0	553568.0	3.04949	Y
2	IC 280-621383/20	1.0	2.716705	50.0	557937.0	2.716705	Y
3	IC 280-621383/19	2.0	4.804385	50.0	606446.0	2.402192	Y
4	IC 280-621383/18	5.0	10.435485	50.0	590835.0	2.087097	Y
5	IC 280-621383/17	10.0	23.674471	50.0	594404.0	2.367447	Y
6	ICIS 280-621383/16	50.0	89.923941	50.0	615052.0	1.798479	Y
7	IC 280-621383/15	75.0	139.15274	50.0	617709.0	1.85537	Y
8	IC 280-621383/14	100.0	189.432678	50.0	619031.0	1.894327	Y
9	IC 280-621383/13	200.0	333.903095	50.0	614848.0	1.669515	Y



Calibration

/ 1,2,3-Trichlorobenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

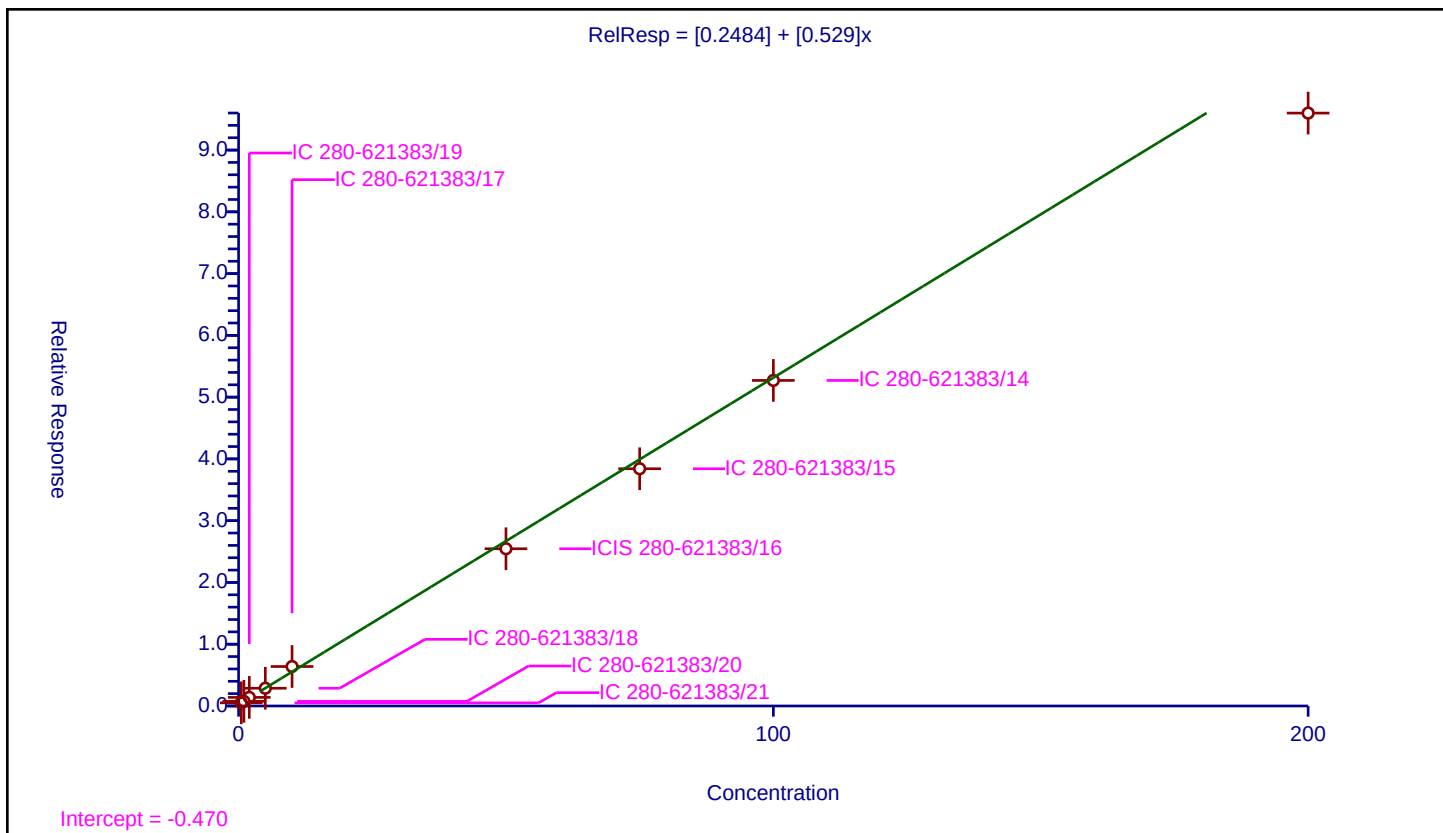
Curve Coefficients

Intercept: 0.2484
 Slope: 0.529

Error Coefficients

Standard Error: 554000
 Relative Standard Error: 8.2
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621383/21	0.5	0.511139	50.0	553568.0	1.022277	Y
2	IC 280-621383/20	1.0	0.756268	50.0	557937.0	0.756268	Y
3	IC 280-621383/19	2.0	1.392704	50.0	606446.0	0.696352	Y
4	IC 280-621383/18	5.0	2.872206	50.0	590835.0	0.574441	Y
5	IC 280-621383/17	10.0	6.391192	50.0	594404.0	0.639119	Y
6	ICIS 280-621383/16	50.0	25.458579	50.0	615052.0	0.509172	Y
7	IC 280-621383/15	75.0	38.409996	50.0	617709.0	0.512133	Y
8	IC 280-621383/14	100.0	52.705761	50.0	619031.0	0.527058	Y
9	IC 280-621383/13	200.0	95.985024	50.0	614848.0	0.479925	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 616689
SDG No.: _____
Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) Y
Calibration Start Date: 06/19/2023 11:51 Calibration End Date: 06/19/2023 14:22 Calibration ID: 81726

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 280-616689/28	ms11_8003.D
Level 2	STD 280-616689/27	ms11_8002.D
Level 3	STD 280-616689/26	ms11_8001.D
Level 4	STD 280-616689/25	ms11_8000.D
Level 5	STD 280-616689/24	ms11_7999.D
Level 6	STD 280-616689/23	ms11_7998.D
Level 7	STD 280-616689/22	ms11_7997.D
Level 8	STD 280-616689/21	ms11_7996.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Ethanol	++++ 0.0036	0.0039 0.0038	0.0036 0.0035	0.0039	0.0033	Ave		0.003 6				5.9		15.0			
Isopropyl alcohol	0.0392 0.0167	0.0255 0.0178	0.0194 0.0171	0.0187	0.0154	Lin2	0.220 4	0.016 1							0.9930		0.9900
Acetonitrile	++++ 0.0347	0.0474 0.0357	0.0365 0.0346	0.0373	0.0335	Ave		0.037 1				12.7		15.0			
Isopropyl ether	0.2876 0.2027	0.2284 0.2032	0.2020 0.2008	0.2076	0.1983	Ave		0.216 3				14.0		15.0			
Chloroprene	0.4547 0.3632	0.3761 0.3489	0.3579 0.3478	0.3743	0.3486	Ave		0.371 4				9.5		15.0			
Tert-butyl ethyl ether	1.0097 0.7502	0.8074 0.7495	0.7528 0.7378	0.7750	0.7385	Ave		0.790 1				11.6		15.0			
Ethyl acetate	++++ 0.2354	0.3055 0.2412	0.2483 0.2343	0.2466	0.2245	Ave		0.248 0				10.7		15.0			
Propionitrile	0.0474 0.0365	0.0389 0.0376	0.0353 0.0366	0.0379	0.0349	Ave		0.038 1				10.4		15.0			
Methacrylonitrile	0.1874 0.1443	0.1502 0.1458	0.1473 0.1348	0.1516	0.1401	Ave		0.150 2				10.6		15.0			
Tert-amyl methyl ether	0.9632 0.6980	0.7410 0.7048	0.7039 0.6889	0.7264	0.6870	Ave		0.739 2				12.5		15.0			
n-Butanol	0.0101 0.0079	0.0069 0.0086	0.0072 0.0087	0.0079	0.0071	Ave		0.008 1				13.0		15.0			
Methyl methacrylate	0.0796 0.0683	0.0703 0.0689	0.0633 0.0678	0.0682	0.0647	Ave		0.068 9				7.1		15.0			
2-Nitropropane	0.0690 0.0638	0.0586 0.0671	0.0534 0.0692	0.0591	0.0583	Ave		0.062 3				9.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 616689

SDG No.: _____

Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/19/2023 11:51 Calibration End Date: 06/19/2023 14:22 Calibration ID: 81726

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
cis-1,4-Dichloro-2-butene	0.3102 0.2429	0.2293 0.2583	0.2102 0.2555	0.2369	0.2275	Ave		0.246 4				12.2		15.0			
1,2,3-Trimethylbenzene	3.2005 2.2267	2.4917 2.2514	2.2490 2.1416	2.3705	2.1976	Ave		2.391 1				14.4		15.0			
1,3,5-Trichlorobenzene	++++ 0.8016	0.9825 0.8175	0.8276 0.7922	0.8686	0.7898	Ave		0.840 0				8.1		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 616689

SDG No.: _____

Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/19/2023 11:51 Calibration End Date: 06/19/2023 14:22 Calibration ID: 81726

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 280-616689/28	ms11_8003.D
Level 2	STD 280-616689/27	ms11_8002.D
Level 3	STD 280-616689/26	ms11_8001.D
Level 4	STD 280-616689/25	ms11_8000.D
Level 5	STD 280-616689/24	ms11_7999.D
Level 6	STD 280-616689/23	ms11_7998.D
Level 7	STD 280-616689/22	ms11_7997.D
Level 8	STD 280-616689/21	ms11_7996.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethanol	FB	Ave	+++++ 693662	20132 980369	46430 1856399	100906	425439	+++++ 4500	120 6000	300 12000	600	3000
Isopropyl alcohol	FB	Lin2	16798 543608	22031 774889	41692 1493075	81273	333447	10.0 750	20.0 1000	50.0 2000	100	500
Acetonitrile	FB	Ave	+++++ 1129866	40845 1554337	78441 3013735	162570	725351	+++++ 750	20.0 1000	50.0 2000	100	500
Isopropyl ether	FB	Ave	12334 659498	19696 884623	43465 1750635	90404	429719	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Chloroprene	FB	Ave	19496 1181365	32431 1519139	76984 3031670	163009	755222	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Tert-butyl ethyl ether	FB	Ave	43296 2440575	69631 3263311	161949 6432066	337547	1600139	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Ethyl acetate	FB	Ave	+++++ 1531257	52691 2100303	106842 4086018	214774	972725	+++++ 150	4.00 200	10.0 400	20.0	100
Propionitrile	FB	Ave	20325 1187556	33590 1636029	75905 3192841	164858	756773	10.0 750	20.0 1000	50.0 2000	100	500
Methacrylonitrile	FB	Ave	80339 4693862	129531 6350070	316978 11749709	660452	3035510	10.0 750	20.0 1000	50.0 2000	100	500
Tert-amyl methyl ether	FB	Ave	41301 2270645	63904 3068625	151433 6005599	316383	1488538	1.00 75.0	2.00 100	5.00 200	10.0	50.0
n-Butanol	FB	Ave	10814 646123	14920 931603	38769 1887024	86306	384908	25.0 1875	50.0 2500	125 5000	250	1250
Methyl methacrylate	FB	Ave	6829 444209	12131 599589	27229 1182434	59444	280393	2.00 150	4.00 200	10.0 400	20.0	100
2-Nitropropane	FB	Ave	5920 415078	10113 584577	22994 1207139	51499	252541	2.00 150	4.00 200	10.0 400	20.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 616689

SDG No.: _____

Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/19/2023 11:51 Calibration End Date: 06/19/2023 14:22 Calibration ID: 81726

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
cis-1,4-Dichloro-2-butene	DCBd 4	Ave	10568	15722	36255	82339	395371	2.00	4.00	10.0	20.0	100
			634862	881703	1797261			150	200	400		
1,2,3-Trimethylbenzene	DCBd 4	Ave	54525	85411	193928	411938	1909287	1.00	2.00	5.00	10.0	50.0
			2909698	3842142	7532533			75.0	100	200		
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++	33679	71360	150932	686167	+++++	2.00	5.00	10.0	50.0
			1047525	1395151	2786295			75.0	100	200		

Curve Type Legend

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7996.D
 Lims ID: STD
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 19-Jun-2023 11:51:30 ALS Bottle#: 12 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD S
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub30
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 20-Jun-2023 08:06:33 Calib Date: 19-Jun-2023 14:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1669

First Level Reviewer: BX8N

Date: 20-Jun-2023 07:35:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.081	5.081	0.000	98	2179462	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.567	7.567	0.000	90	525131	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	98	879301	50.0	50.0	
16 Ethanol	45	2.679	2.679	0.000	100	1856399	12000	11701	
22 Isopropyl alcohol	45	3.070	3.070	0.000	99	1493075	2000.0	2109.8	
25 Acetonitrile	41	3.182	3.182	0.000	99	3013735	2000.0	1864.1	
36 Isopropyl ether	87	3.824	3.824	0.000	92	1750635	200.0	185.6	
37 2-Chloro-1,3-butadiene	53	3.880	3.880	0.000	93	3031670	200.0	187.3	
38 Tert-butyl ethyl ether	59	4.090	4.090	0.000	97	6432066	200.0	186.8	
40 Ethyl acetate	43	4.216	4.216	0.000	99	4086018	400.0	378.0	
43 Propionitrile	54	4.257	4.257	0.000	99	3192841	2000.0	1920.5	
45 Methacrylonitrile	41	4.369	4.369	0.000	89	11749709	2000.0	1794.7	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	93	6005599	200.0	186.4	
58 n-Butanol	56	5.221	5.221	0.000	89	1887024	5000.0	5376.9	
63 Methyl methacrylate	100	5.556	5.556	0.000	91	1182434	400.0	393.8	
67 2-Nitropropane	41	5.905	5.905	0.000	99	1207139	400.0	444.3	
89 cis-1,4-Dichloro-2-butene	53	8.531	8.531	0.000	0	1797261	400.0	414.8	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	7532533	200.0	179.1	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	97	2786295	200.0	188.6	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00063

Amount Added: 200.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Report Date: 20-Jun-2023 08:06:33

Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7996.D

Injection Date: 19-Jun-2023 11:51:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: STD

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

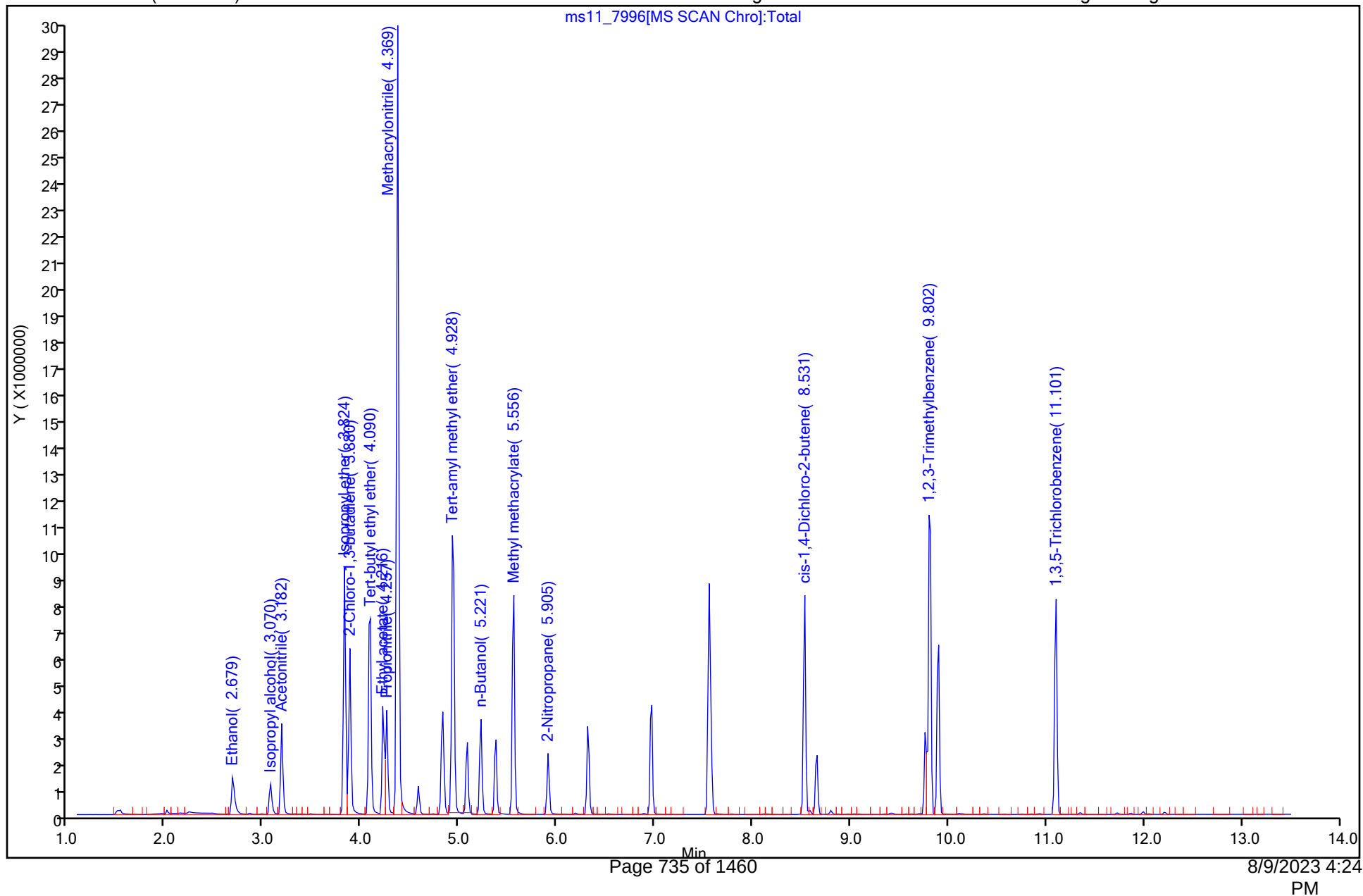
ALS Bottle#: 12

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7997.D
 Lims ID: STD
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 19-Jun-2023 12:13:30 ALS Bottle#: 13 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub30
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 20-Jun-2023 08:06:34 Calib Date: 19-Jun-2023 14:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1669

First Level Reviewer: BX8N

Date: 20-Jun-2023 07:35:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	2177086	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	88	520790	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	98	853263	50.0	50.0	
16 Ethanol	45	2.679	2.679	0.000	99	980369	6000.0	6186.3	
22 Isopropyl alcohol	45	3.056	3.056	0.000	99	774889	1000.0	1089.6	
25 Acetonitrile	41	3.182	3.182	0.000	99	1554337	1000.0	962.5	
36 Isopropyl ether	87	3.825	3.825	0.000	93	884623	100.0	93.9	
37 2-Chloro-1,3-butadiene	53	3.880	3.880	0.000	93	1519139	100.0	93.9	
38 Tert-butyl ethyl ether	59	4.090	4.090	0.000	98	3263311	100.0	94.9	
40 Ethyl acetate	43	4.216	4.216	0.000	99	2100303	200.0	194.5	
43 Propionitrile	54	4.258	4.258	0.000	99	1636029	1000.0	985.2	
45 Methacrylonitrile	41	4.369	4.369	0.000	92	6350070	1000.0	971.0	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	93	3068625	100.0	95.3	
58 n-Butanol	56	5.221	5.221	0.000	89	931603	2500.0	2657.4	
63 Methyl methacrylate	100	5.556	5.556	0.000	91	599589	200.0	199.9	
67 2-Nitropropane	41	5.906	5.906	0.000	99	584577	200.0	215.4	
89 cis-1,4-Dichloro-2-butene	53	8.531	8.531	0.000	0	881703	200.0	209.7	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	3842142	100.0	94.2	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	97	1395151	100.0	97.3	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00063

Amount Added: 100.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Report Date: 20-Jun-2023 08:06:34

Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7997.D

Injection Date: 19-Jun-2023 12:13:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: STD

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

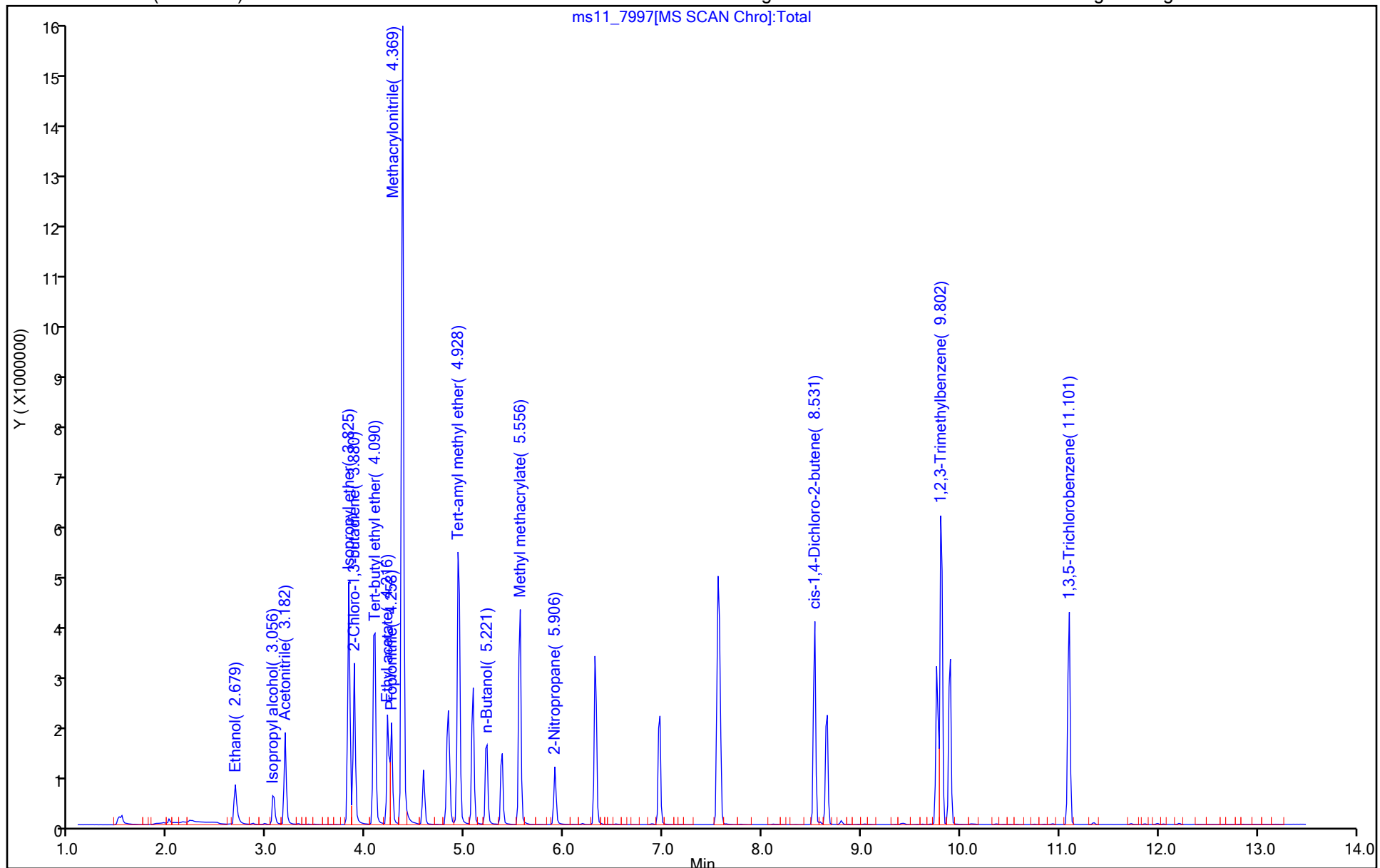
ALS Bottle#: 13

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7998.D
 Lims ID: STD
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 19-Jun-2023 12:34:30 ALS Bottle#: 14 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub30
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 20-Jun-2023 08:06:35 Calib Date: 19-Jun-2023 14:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1669

First Level Reviewer: BX8N

Date: 20-Jun-2023 07:34:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	2168687	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	89	521946	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	871142	50.0	50.0	
16 Ethanol	45	2.679	2.679	0.000	100	693662	4500.0	4394.1	
22 Isopropyl alcohol	45	3.056	3.056	0.000	99	543608	750.0	763.3	
25 Acetonitrile	41	3.182	3.182	0.000	99	1129866	750.0	702.3	
36 Isopropyl ether	87	3.825	3.825	0.000	93	659498	75.0	70.3	
37 2-Chloro-1,3-butadiene	53	3.880	3.880	0.000	93	1181365	75.0	73.3	
38 Tert-butyl ethyl ether	59	4.090	4.090	0.000	98	2440575	75.0	71.2	
40 Ethyl acetate	43	4.216	4.216	0.000	99	1531257	150.0	142.4	
43 Propionitrile	54	4.258	4.258	0.000	99	1187556	750.0	717.9	
45 Methacrylonitrile	41	4.369	4.369	0.000	92	4693862	750.0	720.5	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	89	2270645	75.0	70.8	
58 n-Butanol	56	5.221	5.221	0.000	89	646123	1875.0	1850.2	
63 Methyl methacrylate	100	5.556	5.556	0.000	91	444209	150.0	148.7	
67 2-Nitropropane	41	5.906	5.906	0.000	98	415078	150.0	153.5	
89 cis-1,4-Dichloro-2-butene	53	8.531	8.531	0.000	0	634862	150.0	147.9	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	2909698	75.0	69.8	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	97	1047525	75.0	71.6	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00063

Amount Added: 75.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Report Date: 20-Jun-2023 08:06:35

Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7998.D

Injection Date: 19-Jun-2023 12:34:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: STD

Worklist Smp#: 23

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

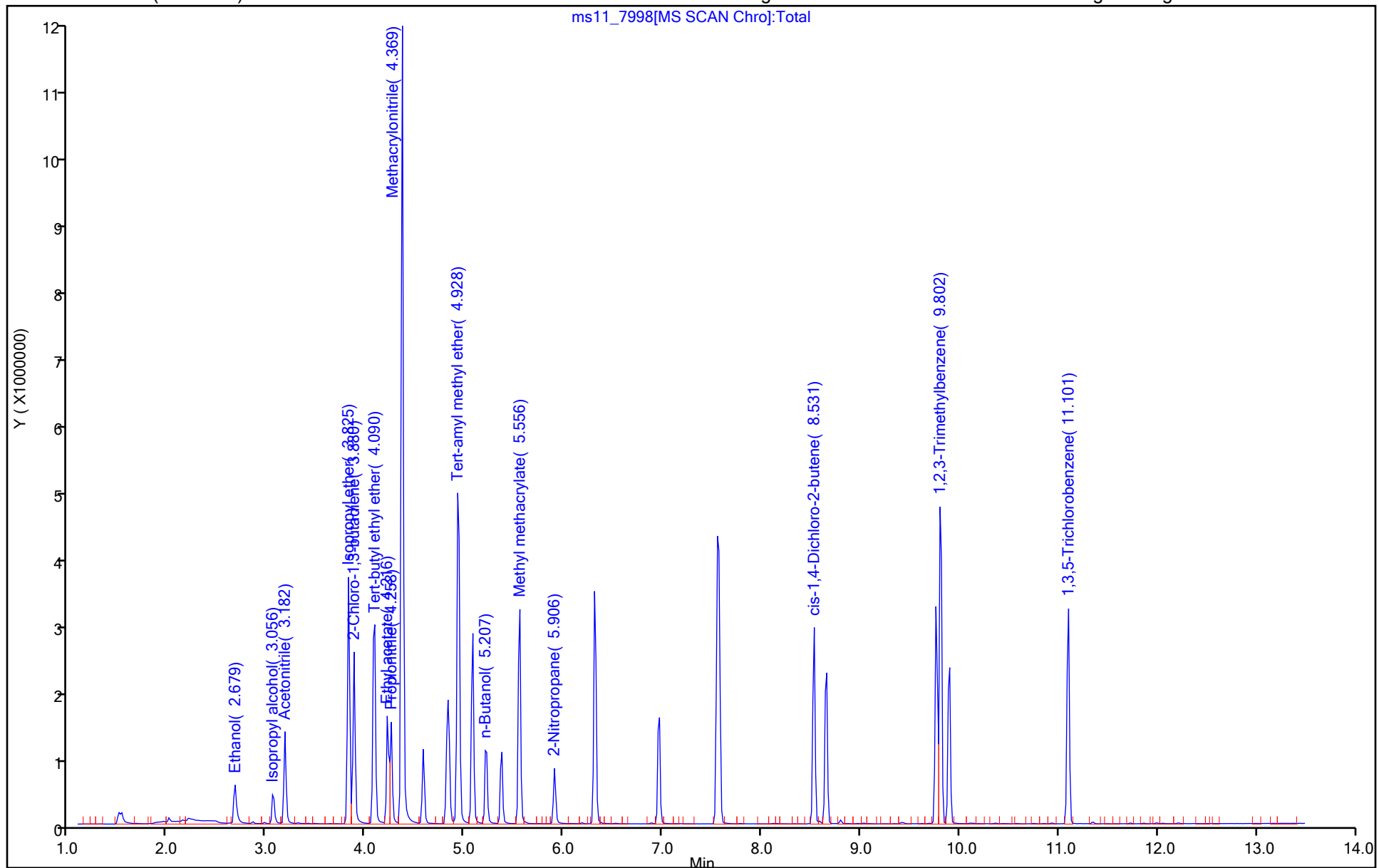
ALS Bottle#: 14

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7999.D
 Lims ID: STD
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 19-Jun-2023 12:56:30 ALS Bottle#: 15 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub30
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 20-Jun-2023 08:06:36 Calib Date: 19-Jun-2023 14:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1669

First Level Reviewer: BX8N

Date: 20-Jun-2023 07:35:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.081	5.081	0.000	98	2166675	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.567	7.567	0.000	89	519245	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	868816	50.0	50.0	
16 Ethanol	45	2.679	2.679	0.000	100	425439	3000.0	2697.5	
22 Isopropyl alcohol	45	3.056	3.056	0.000	99	333447	500.0	463.4	
25 Acetonitrile	41	3.182	3.182	0.000	99	725351	500.0	451.3	
36 Isopropyl ether	87	3.825	3.825	0.000	93	429719	50.0	45.8	
37 2-Chloro-1,3-butadiene	53	3.880	3.880	0.000	93	755222	50.0	46.9	
38 Tert-butyl ethyl ether	59	4.090	4.090	0.000	98	1600139	50.0	46.7	
40 Ethyl acetate	43	4.216	4.216	0.000	99	972725	100.0	90.5	
43 Propionitrile	54	4.257	4.257	0.000	99	756773	500.0	457.9	
45 Methacrylonitrile	41	4.369	4.369	0.000	92	3035510	500.0	466.4	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	90	1488538	50.0	46.5	
58 n-Butanol	56	5.207	5.207	0.000	91	384908	1250.0	1103.2	
63 Methyl methacrylate	100	5.556	5.556	0.000	91	280393	100.0	93.9	
67 2-Nitropropane	41	5.905	5.905	0.000	98	252541	100.0	93.5	
89 cis-1,4-Dichloro-2-butene	53	8.531	8.531	0.000	0	395371	100.0	92.4	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	1909287	50.0	46.0	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	97	686167	50.0	47.0	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00063

Amount Added: 50.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Report Date: 20-Jun-2023 08:06:36

Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7999.D

Injection Date: 19-Jun-2023 12:56:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: STD

Worklist Smp#: 24

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

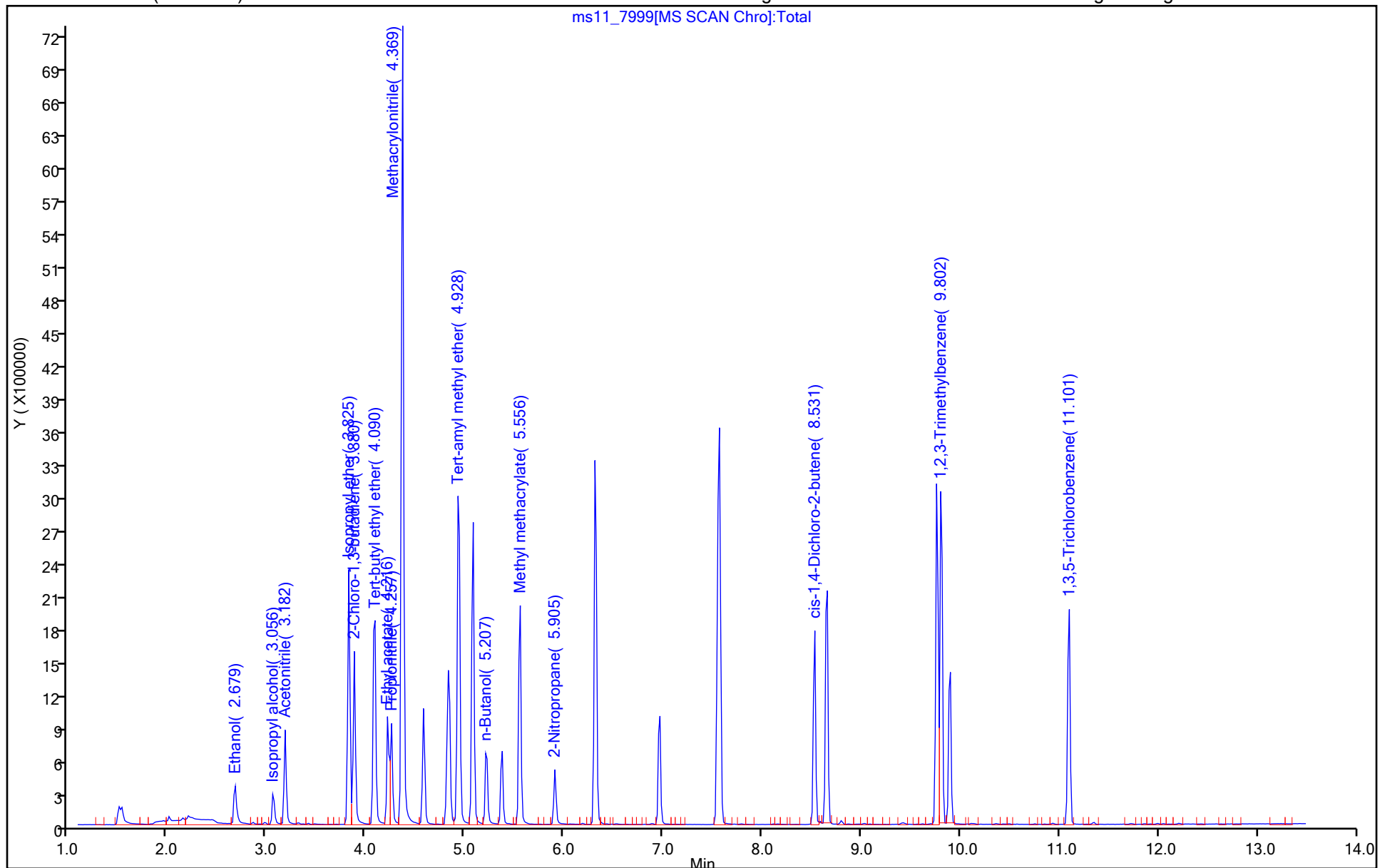
ALS Bottle#: 15

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8000.D
 Lims ID: STD
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 19-Jun-2023 13:17:30 ALS Bottle#: 16 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub30
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 20-Jun-2023 08:06:36 Calib Date: 19-Jun-2023 14:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1669

First Level Reviewer: BX8N

Date: 20-Jun-2023 07:35:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.081	5.081	0.000	98	2177759	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.567	7.567	0.000	89	527622	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	98	868871	50.0	50.0	
16 Ethanol	45	2.679	2.679	0.000	100	100906	600.0	636.5	
22 Isopropyl alcohol	45	3.056	3.056	0.000	99	81273	100.0	102.0	
25 Acetonitrile	41	3.182	3.182	0.000	100	162570	100.0	100.6	
36 Isopropyl ether	87	3.825	3.825	0.000	93	90404	10.0	9.59	
37 2-Chloro-1,3-butadiene	53	3.880	3.880	0.000	93	163009	10.0	10.1	
38 Tert-butyl ethyl ether	59	4.090	4.090	0.000	98	337547	10.0	9.81	
40 Ethyl acetate	43	4.216	4.216	0.000	99	214774	20.0	19.9	
43 Propionitrile	54	4.257	4.257	0.000	99	164858	100.0	99.2	
45 Methacrylonitrile	41	4.369	4.369	0.000	92	660452	100.0	101.0	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	91	316383	10.0	9.83	
58 n-Butanol	56	5.221	5.221	0.000	88	86306	250.0	246.1	
63 Methyl methacrylate	100	5.556	5.556	0.000	91	59444	20.0	19.8	
67 2-Nitropropane	41	5.905	5.905	0.000	97	51499	20.0	19.0	
89 cis-1,4-Dichloro-2-butene	53	8.531	8.531	0.000	0	82339	20.0	19.2	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	411938	10.0	9.91	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	97	150932	10.0	10.3	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00063

Amount Added: 10.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Report Date: 20-Jun-2023 08:06:37

Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8000.D

Injection Date: 19-Jun-2023 13:17:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: STD

Worklist Smp#: 25

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

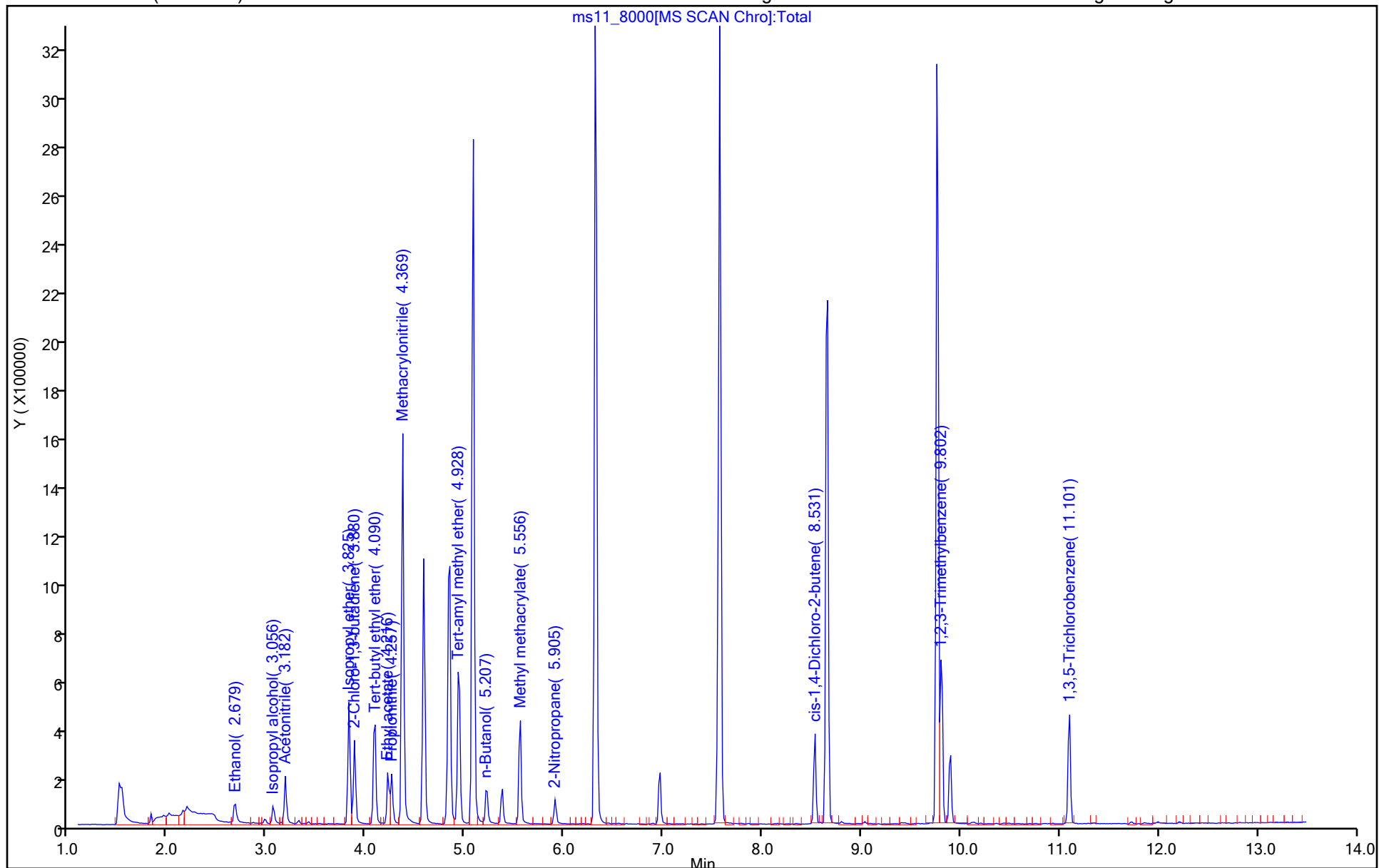
ALS Bottle#: 16

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8001.D
 Lims ID: STD
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 19-Jun-2023 13:39:30 ALS Bottle#: 17 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub30
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 20-Jun-2023 08:06:37 Calib Date: 19-Jun-2023 14:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1669

First Level Reviewer: BX8N

Date: 20-Jun-2023 07:41:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.081	5.081	0.000	98	2151209	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.567	7.567	0.000	88	516484	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	862272	50.0	50.0	
16 Ethanol	45	2.679	2.679	0.000	100	46430	300.0	296.5	
22 Isopropyl alcohol	45	3.056	3.056	0.000	99	41692	50.0	46.4	
25 Acetonitrile	41	3.182	3.182	0.000	100	78441	50.0	49.2	
36 Isopropyl ether	87	3.824	3.824	0.000	94	43465	5.00	4.67	
37 2-Chloro-1,3-butadiene	53	3.880	3.880	0.000	93	76984	5.00	4.82	
38 Tert-butyl ethyl ether	59	4.090	4.090	0.000	98	161949	5.00	4.76	
40 Ethyl acetate	43	4.216	4.216	0.000	99	106842	10.0	10.0	
43 Propionitrile	54	4.257	4.257	0.000	99	75905	50.0	46.3	
45 Methacrylonitrile	41	4.369	4.369	0.000	92	316978	50.0	49.1	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	90	151433	5.00	4.76	
58 n-Butanol	56	5.221	5.221	0.000	90	38769	125.0	111.9	
63 Methyl methacrylate	100	5.556	5.556	0.000	90	27229	10.0	9.19	
67 2-Nitropropane	41	5.905	5.905	0.000	98	22994	10.0	8.57	
89 cis-1,4-Dichloro-2-butene	53	8.531	8.531	0.000	0	36255	10.0	8.53	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	193928	5.00	4.70	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	96	71360	5.00	4.93	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

MV-Supp B_00063

Amount Added: 5.00

Units: uL

Report Date: 20-Jun-2023 08:06:37

Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8001.D

Injection Date: 19-Jun-2023 13:39:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: STD

Worklist Smp#: 26

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

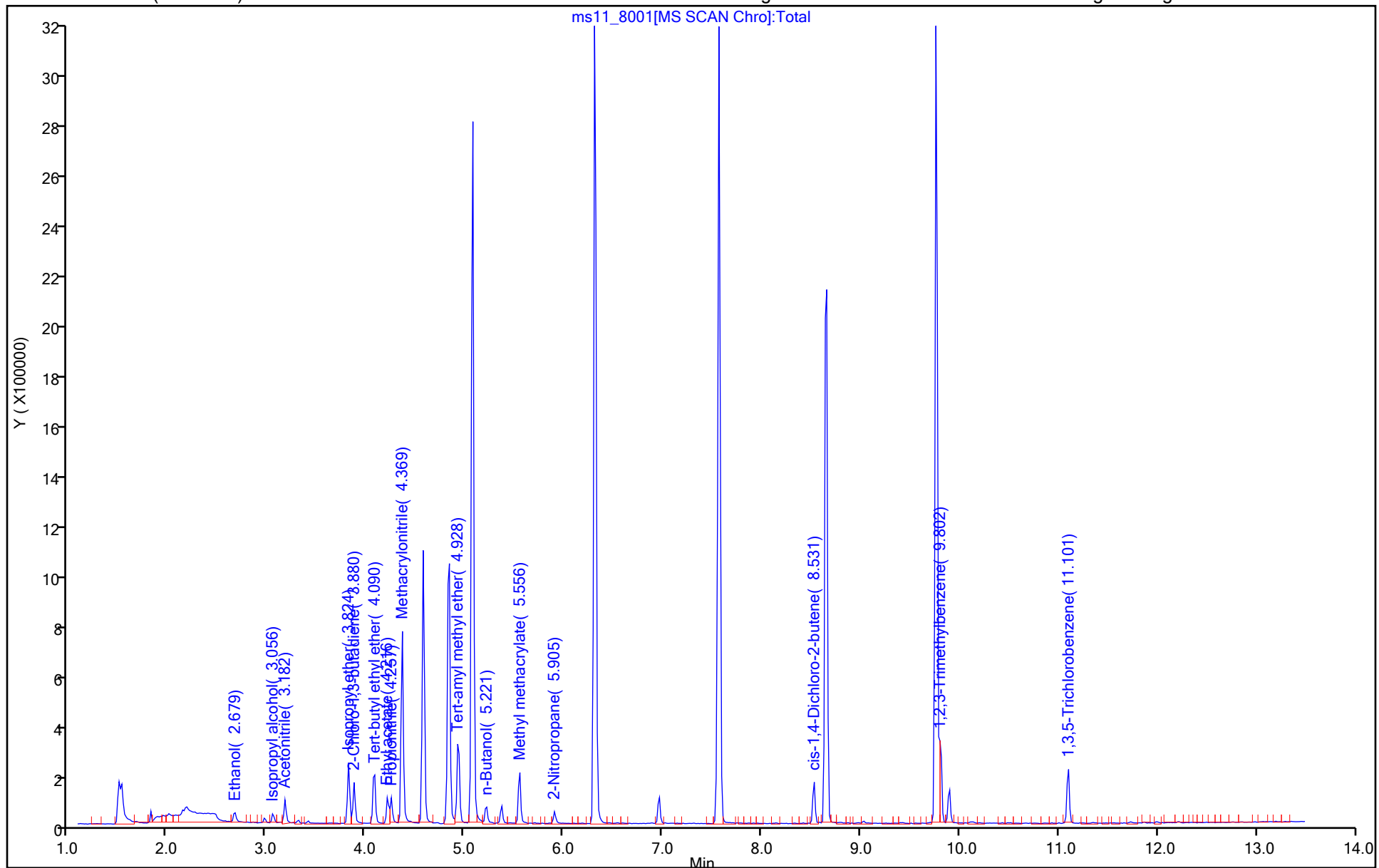
ALS Bottle#: 17

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8002.D
 Lims ID: STD
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 19-Jun-2023 14:00:30 ALS Bottle#: 18 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub30
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 20-Jun-2023 08:06:38 Calib Date: 19-Jun-2023 14:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1669

First Level Reviewer: BX8N

Date: 20-Jun-2023 07:41:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.081	5.081	0.000	98	2155996	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.567	7.567	0.000	88	515676	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	856961	50.0	50.0	
16 Ethanol	45	2.679	2.679	0.000	99	20132	120.0	128.3	
22 Isopropyl alcohol	45	3.056	3.056	0.000	99	22031	20.0	18.0	
25 Acetonitrile	41	3.182	3.182	0.000	100	40845	20.0	25.5	
36 Isopropyl ether	87	3.824	3.824	0.000	93	19696	2.00	2.11	
37 2-Chloro-1,3-butadiene	53	3.880	3.880	0.000	92	32431	2.00	2.03	
38 Tert-butyl ethyl ether	59	4.090	4.090	0.000	98	69631	2.00	2.04	
40 Ethyl acetate	43	4.216	4.216	0.000	100	52691	4.00	4.93	
43 Propionitrile	54	4.257	4.257	0.000	100	33590	20.0	20.4	
45 Methacrylonitrile	41	4.369	4.369	0.000	92	129531	20.0	20.0	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	90	63904	2.00	2.01	
58 n-Butanol	56	5.221	5.221	0.000	93	14920	50.0	43.0	
63 Methyl methacrylate	100	5.556	5.556	0.000	90	12131	4.00	4.08	
67 2-Nitropropane	41	5.905	5.905	0.000	97	10113	4.00	3.76	
89 cis-1,4-Dichloro-2-butene	53	8.531	8.531	0.000	0	15722	4.00	3.72	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	85411	2.00	2.08	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	97	33679	2.00	2.34	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

MV-Supp B_00063

Amount Added: 2.00

Units: uL

Report Date: 20-Jun-2023 08:06:38

Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8002.D

Injection Date: 19-Jun-2023 14:00:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: STD

Worklist Smp#: 27

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

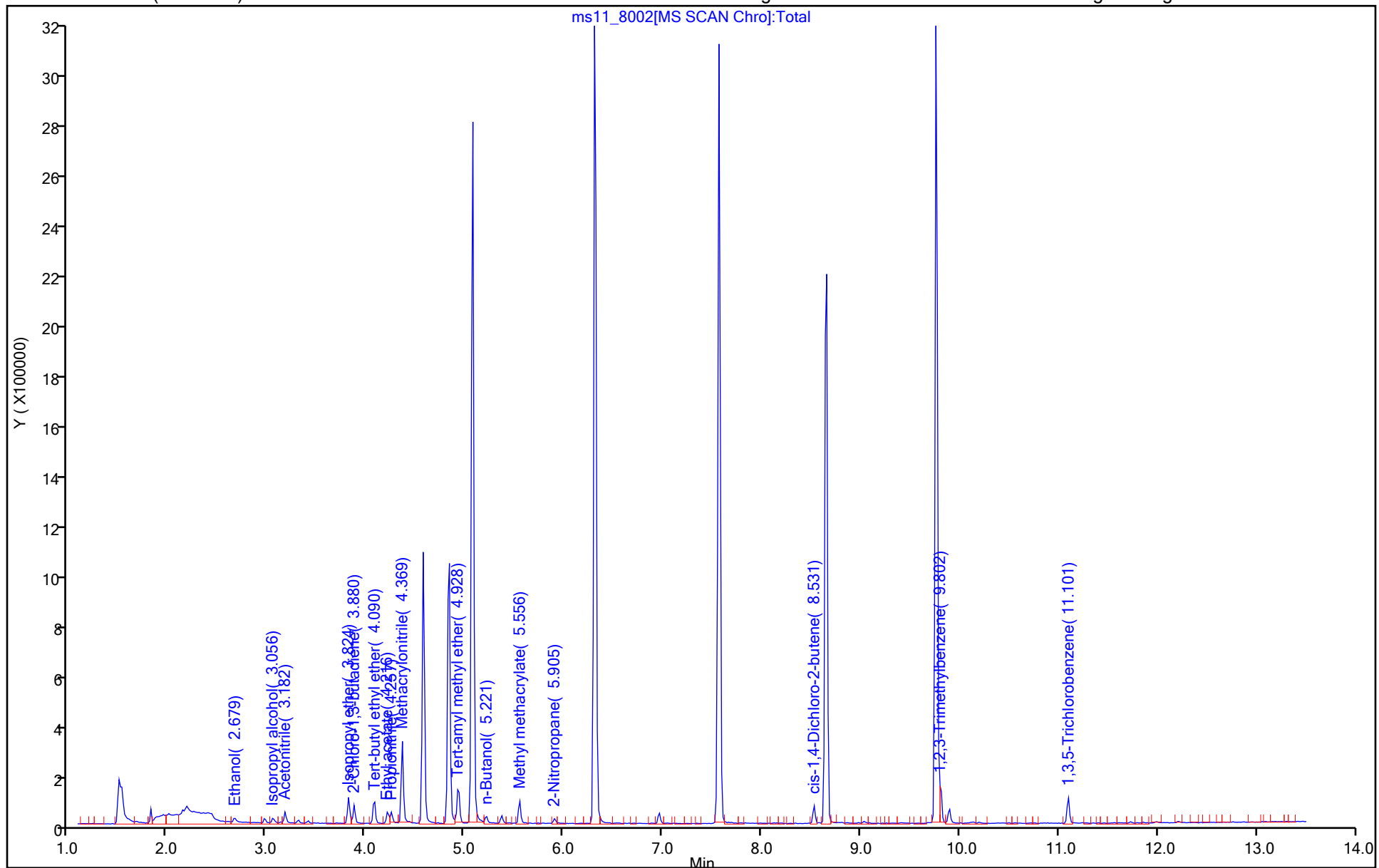
ALS Bottle#: 18

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Lims ID: STD
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 19-Jun-2023 14:22:30 ALS Bottle#: 19 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub30
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 20-Jun-2023 08:06:39 Calib Date: 19-Jun-2023 14:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1669

First Level Reviewer: BX8N

Date: 20-Jun-2023 07:48:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	2143943	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	89	518073	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	98	851825	50.0	50.0	
16 Ethanol	45	2.679	2.679	0.000	98	15029	60.0	96.3	
22 Isopropyl alcohol	45	3.057	3.057	0.000	99	16798	10.0	10.6	
25 Acetonitrile	41	3.182	3.182	0.000	98	25445	10.0	16.0	
36 Isopropyl ether	87	3.825	3.825	0.000	93	12334	1.00	1.33	
37 2-Chloro-1,3-butadiene	53	3.881	3.881	0.000	91	19496	1.00	1.22	
38 Tert-butyl ethyl ether	59	4.090	4.090	0.000	97	43296	1.00	1.28	
40 Ethyl acetate	43	4.216	4.216	0.000	99	32302	2.00	3.04	
43 Propionitrile	54	4.258	4.258	0.000	96	20325	10.0	12.4	
45 Methacrylonitrile	41	4.369	4.369	0.000	92	80339	10.0	12.5	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	90	41301	1.00	1.30	
58 n-Butanol	56	5.221	5.221	0.000	94	10814	25.0	31.3	
63 Methyl methacrylate	100	5.556	5.556	0.000	90	6829	2.00	2.31	
67 2-Nitropropane	41	5.906	5.906	0.000	96	5920	2.00	2.21	
89 cis-1,4-Dichloro-2-butene	53	8.531	8.531	0.000	0	10568	2.00	2.52	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	54525	1.00	1.34	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	96	20621	1.00	1.44	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

MV-Supp B_00063

Amount Added: 1.00

Units: uL

Report Date: 20-Jun-2023 08:06:39

Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D

Injection Date: 19-Jun-2023 14:22:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: STD

Worklist Smp#: 28

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

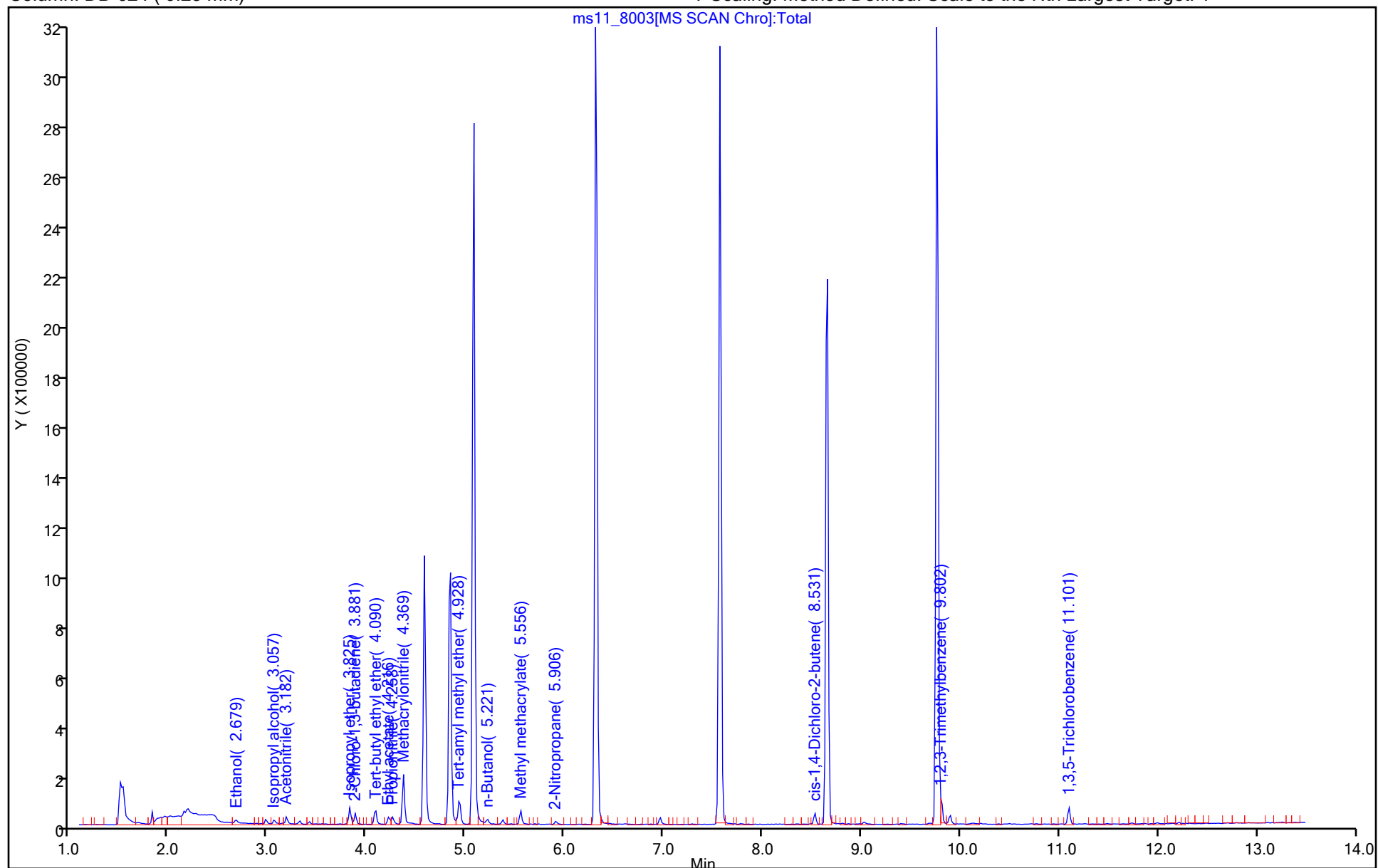
ALS Bottle#: 19

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Calibration

/ Ethanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

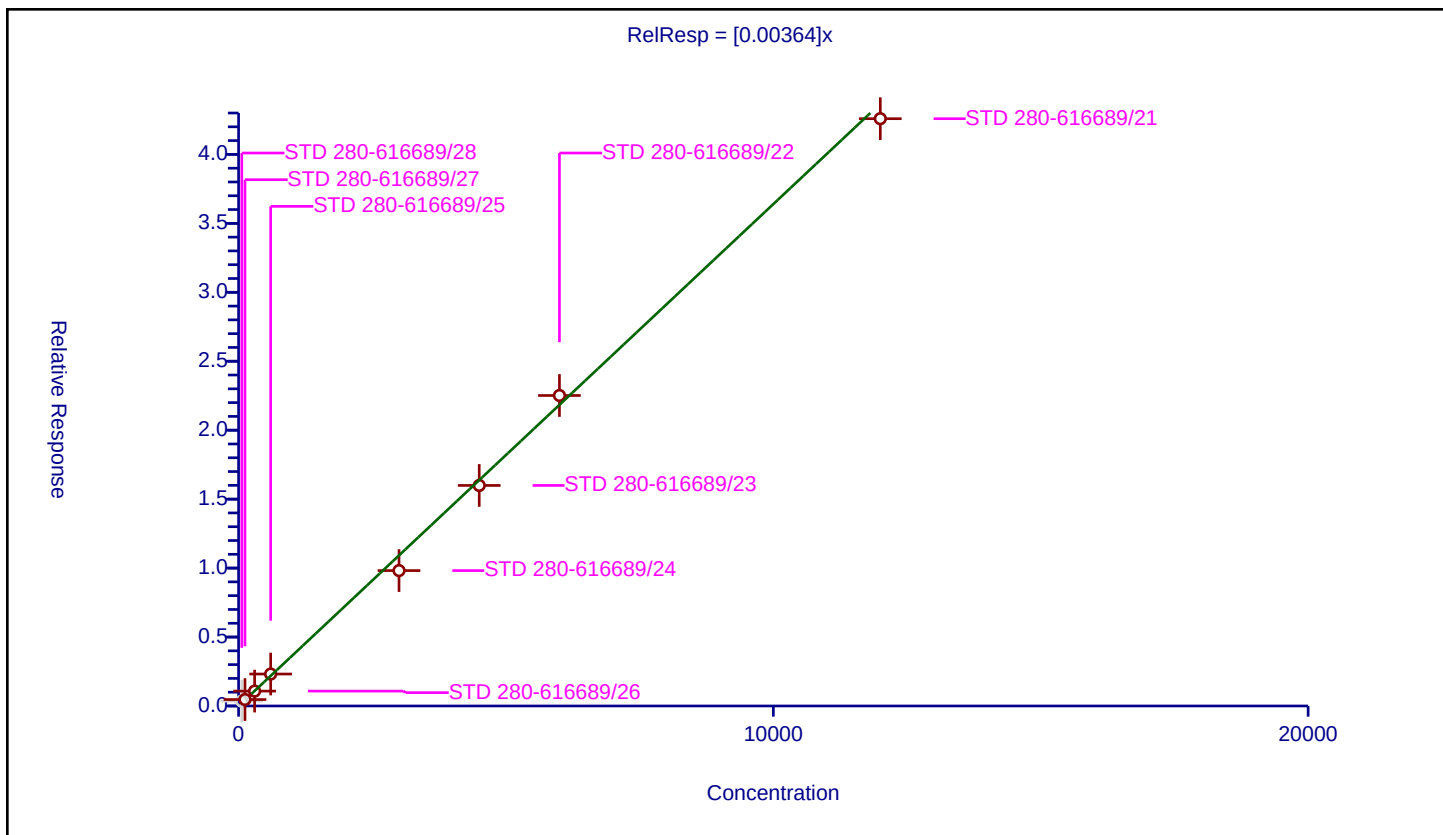
Curve Coefficients

Intercept: 0
 Slope: 0.00364

Error Coefficients

Standard Error: 920000
 Relative Standard Error: 5.9
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	60.0	0.350499	50.0	2143943.0	0.005842	N
2	STD 280-616689/27	120.0	0.466884	50.0	2155996.0	0.003891	Y
3	STD 280-616689/26	300.0	1.079161	50.0	2151209.0	0.003597	Y
4	STD 280-616689/25	600.0	2.316739	50.0	2177759.0	0.003861	Y
5	STD 280-616689/24	3000.0	9.817785	50.0	2166675.0	0.003273	Y
6	STD 280-616689/23	4500.0	15.992672	50.0	2168687.0	0.003554	Y
7	STD 280-616689/22	6000.0	22.515624	50.0	2177086.0	0.003753	Y
8	STD 280-616689/21	12000.0	42.588469	50.0	2179462.0	0.003549	Y



Calibration

/ Isopropyl alcohol

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

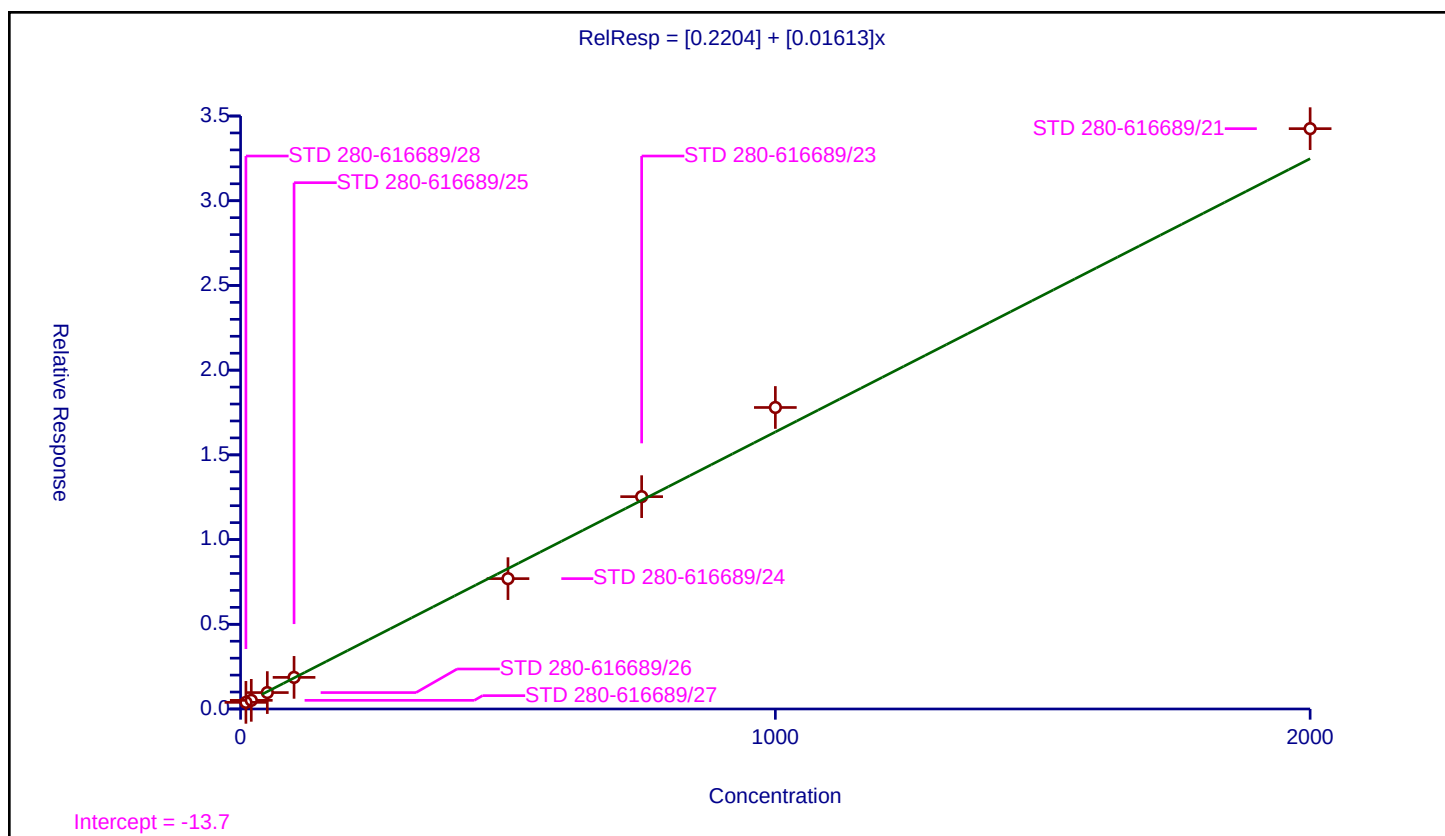
Curve Coefficients

Intercept: 0.2204
Slope: 0.01613

Error Coefficients

Standard Error: 735000
Relative Standard Error: 7.8
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	10.0	0.391755	50.0	2143943.0	0.039175	Y
2	STD 280-616689/27	20.0	0.510924	50.0	2155996.0	0.025546	Y
3	STD 280-616689/26	50.0	0.969036	50.0	2151209.0	0.019381	Y
4	STD 280-616689/25	100.0	1.865978	50.0	2177759.0	0.01866	Y
5	STD 280-616689/24	500.0	7.694901	50.0	2166675.0	0.01539	Y
6	STD 280-616689/23	750.0	12.533113	50.0	2168687.0	0.016711	Y
7	STD 280-616689/22	1000.0	17.796472	50.0	2177086.0	0.017796	Y
8	STD 280-616689/21	2000.0	34.253293	50.0	2179462.0	0.017127	Y



Calibration

/ Acetonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

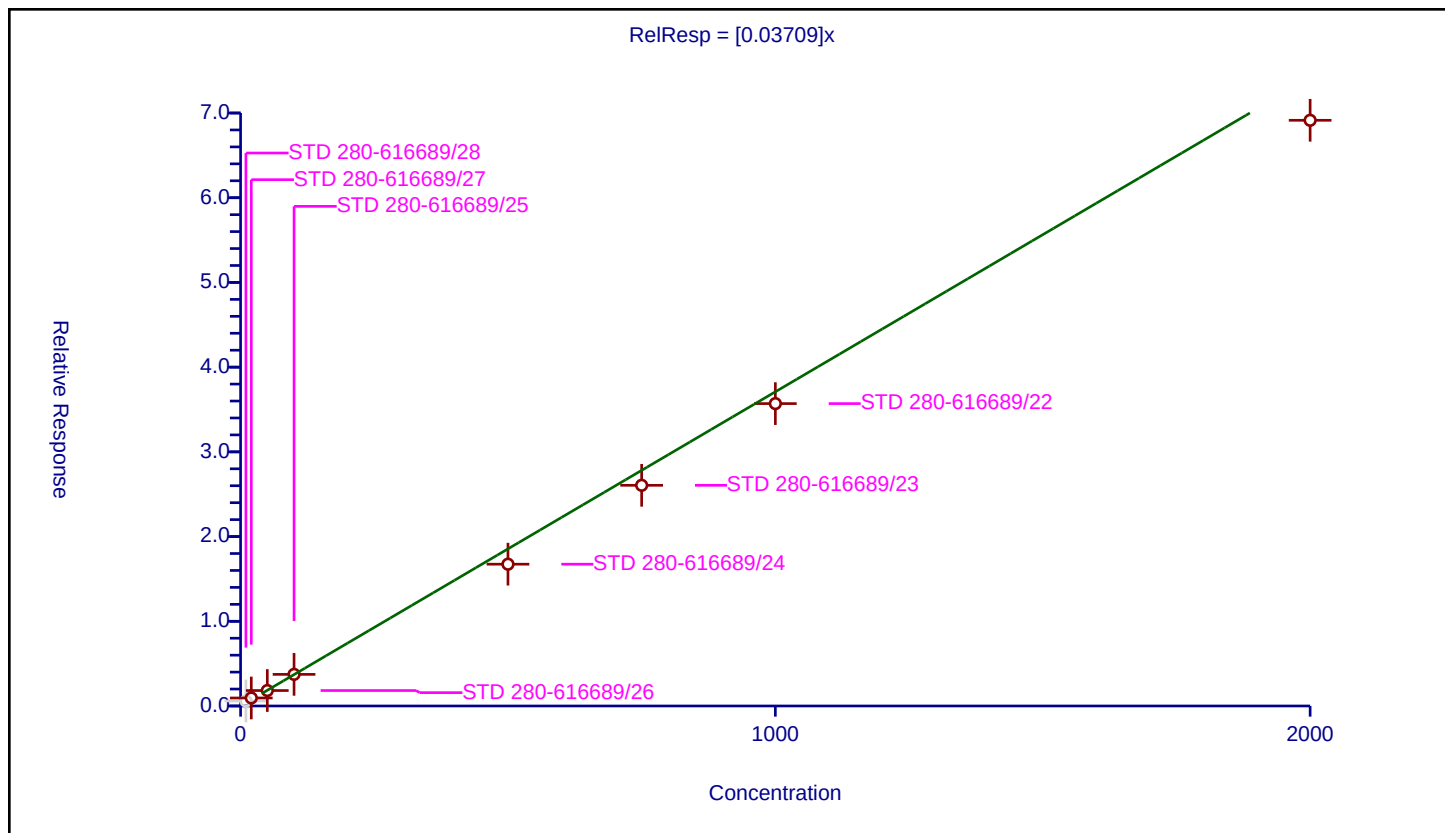
Curve Coefficients

Intercept: 0
 Slope: 0.03709

Error Coefficients

Standard Error: 1490000
 Relative Standard Error: 12.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	10.0	0.593416	50.0	2143943.0	0.059342	N
2	STD 280-616689/27	20.0	0.947242	50.0	2155996.0	0.047362	Y
3	STD 280-616689/26	50.0	1.823184	50.0	2151209.0	0.036464	Y
4	STD 280-616689/25	100.0	3.732507	50.0	2177759.0	0.037325	Y
5	STD 280-616689/24	500.0	16.738805	50.0	2166675.0	0.033478	Y
6	STD 280-616689/23	750.0	26.049541	50.0	2168687.0	0.034733	Y
7	STD 280-616689/22	1000.0	35.697648	50.0	2177086.0	0.035698	Y
8	STD 280-616689/21	2000.0	69.139425	50.0	2179462.0	0.03457	Y



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

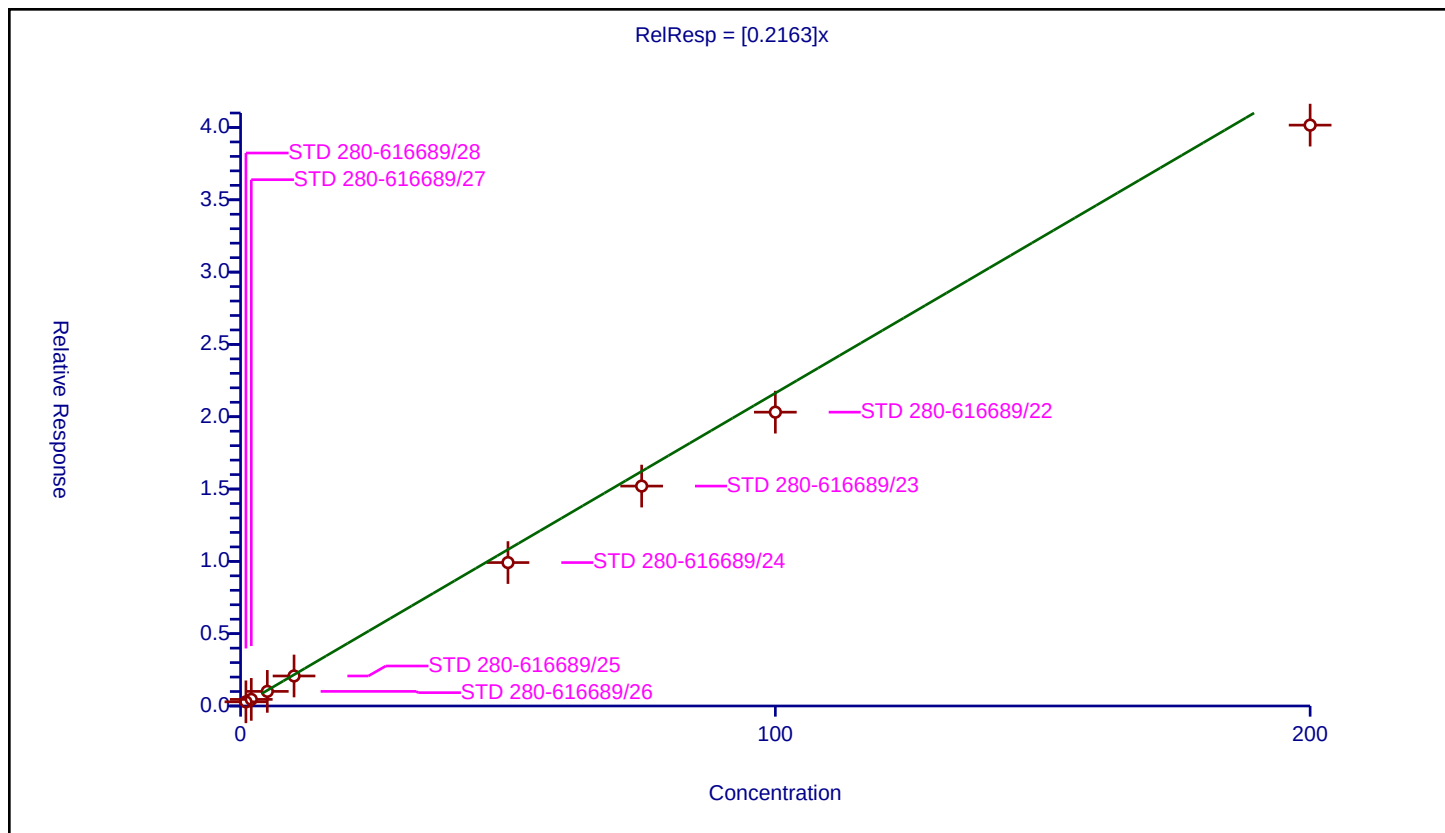
Curve Coefficients

Intercept: 0
 Slope: 0.2163

Error Coefficients

Standard Error: 800000
 Relative Standard Error: 14.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.969

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	1.0	0.287648	50.0	2143943.0	0.287648	Y
2	STD 280-616689/27	2.0	0.456773	50.0	2155996.0	0.228386	Y
3	STD 280-616689/26	5.0	1.010246	50.0	2151209.0	0.202049	Y
4	STD 280-616689/25	10.0	2.07562	50.0	2177759.0	0.207562	Y
5	STD 280-616689/24	50.0	9.916554	50.0	2166675.0	0.198331	Y
6	STD 280-616689/23	75.0	15.205007	50.0	2168687.0	0.202733	Y
7	STD 280-616689/22	100.0	20.316676	50.0	2177086.0	0.203167	Y
8	STD 280-616689/21	200.0	40.16209	50.0	2179462.0	0.20081	Y



Calibration

/ 2-Chloro-1,3-butadiene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

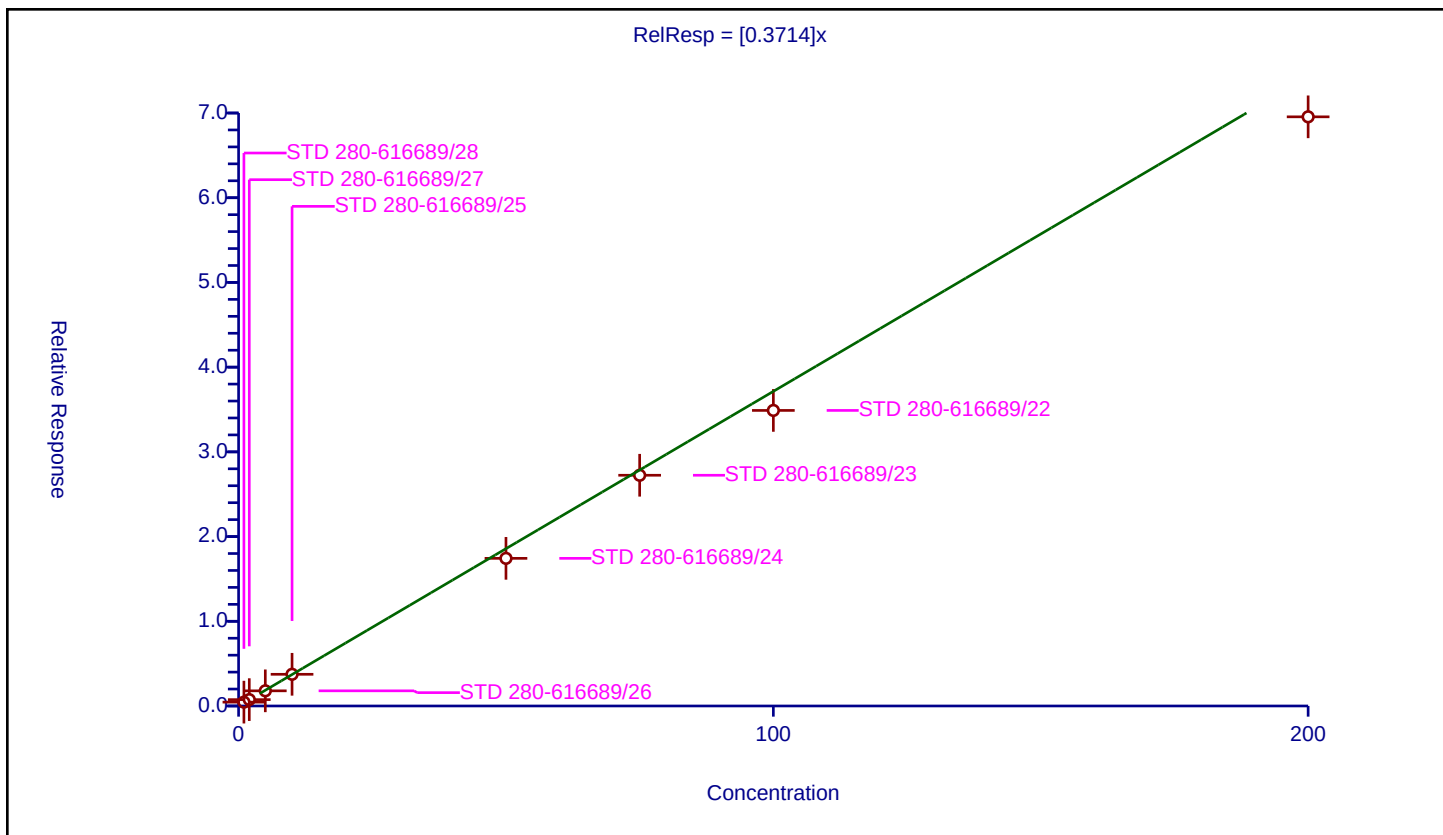
Curve Coefficients

Intercept: 0
Slope: 0.3714

Error Coefficients

Standard Error: 1390000
Relative Standard Error: 9.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	1.0	0.454676	50.0	2143943.0	0.454676	Y
2	STD 280-616689/27	2.0	0.752112	50.0	2155996.0	0.376056	Y
3	STD 280-616689/26	5.0	1.789319	50.0	2151209.0	0.357864	Y
4	STD 280-616689/25	10.0	3.742586	50.0	2177759.0	0.374259	Y
5	STD 280-616689/24	50.0	17.428133	50.0	2166675.0	0.348563	Y
6	STD 280-616689/23	75.0	27.236872	50.0	2168687.0	0.363158	Y
7	STD 280-616689/22	100.0	34.889274	50.0	2177086.0	0.348893	Y
8	STD 280-616689/21	200.0	69.55088	50.0	2179462.0	0.347754	Y



Calibration

/ Tert-butyl ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

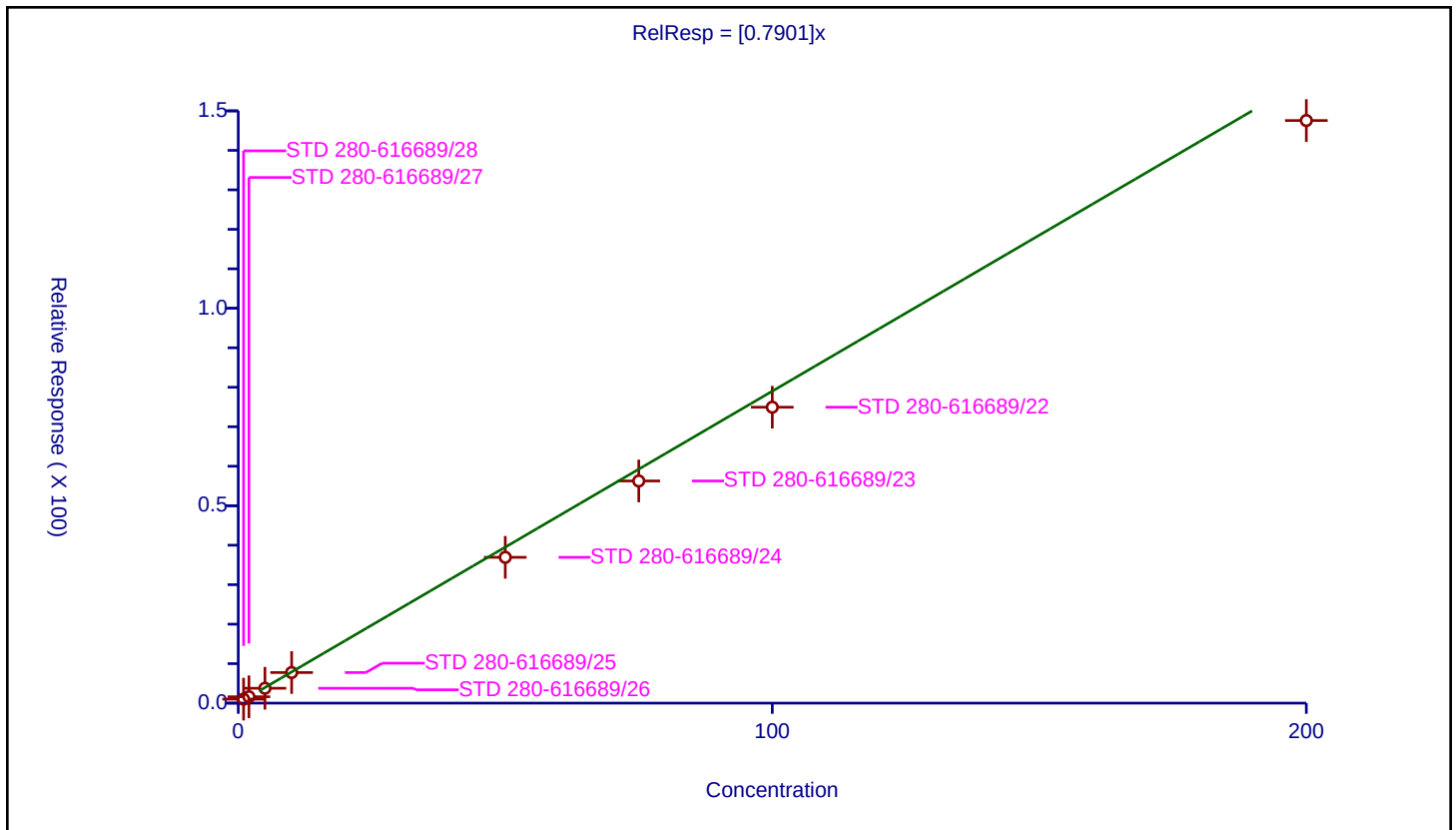
Curve Coefficients

Intercept: 0
Slope: 0.7901

Error Coefficients

Standard Error: 2940000
Relative Standard Error: 11.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	1.0	1.009728	50.0	2143943.0	1.009728	Y
2	STD 280-616689/27	2.0	1.614822	50.0	2155996.0	0.807411	Y
3	STD 280-616689/26	5.0	3.764139	50.0	2151209.0	0.752828	Y
4	STD 280-616689/25	10.0	7.74987	50.0	2177759.0	0.774987	Y
5	STD 280-616689/24	50.0	36.926143	50.0	2166675.0	0.738523	Y
6	STD 280-616689/23	75.0	56.268493	50.0	2168687.0	0.750247	Y
7	STD 280-616689/22	100.0	74.946764	50.0	2177086.0	0.749468	Y
8	STD 280-616689/21	200.0	147.560866	50.0	2179462.0	0.737804	Y



Calibration

/ Ethyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

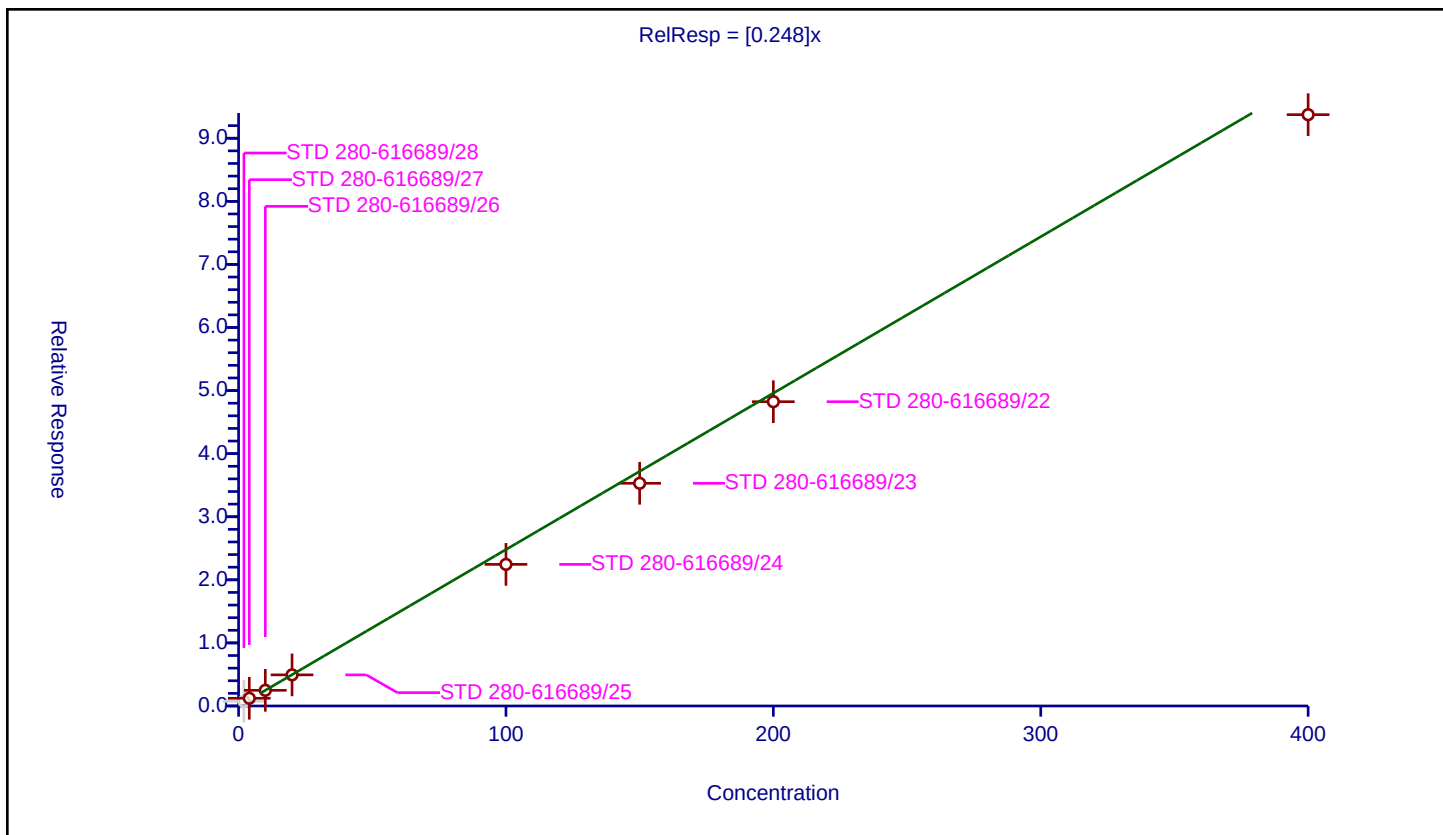
Curve Coefficients

Intercept: 0
Slope: 0.248

Error Coefficients

Standard Error: 2020000
Relative Standard Error: 10.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	2.0	0.753332	50.0	2143943.0	0.376666	N
2	STD 280-616689/27	4.0	1.221964	50.0	2155996.0	0.305491	Y
3	STD 280-616689/26	10.0	2.483301	50.0	2151209.0	0.24833	Y
4	STD 280-616689/25	20.0	4.931078	50.0	2177759.0	0.246554	Y
5	STD 280-616689/24	100.0	22.447414	50.0	2166675.0	0.224474	Y
6	STD 280-616689/23	150.0	35.303781	50.0	2168687.0	0.235359	Y
7	STD 280-616689/22	200.0	48.236565	50.0	2177086.0	0.241183	Y
8	STD 280-616689/21	400.0	93.739143	50.0	2179462.0	0.234348	Y



Calibration

/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

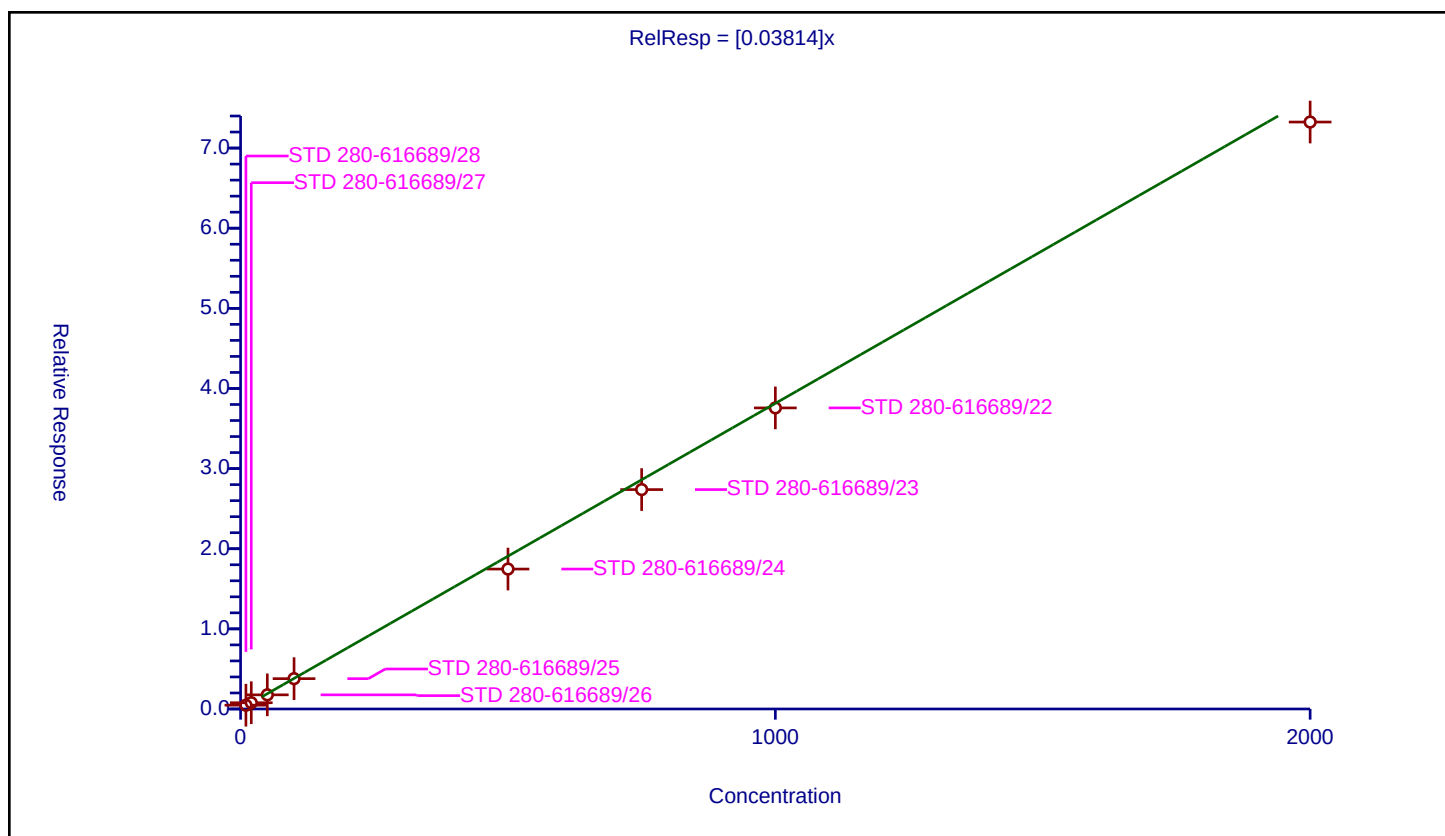
Curve Coefficients

Intercept: 0
Slope: 0.03814

Error Coefficients

Standard Error: 1460000
Relative Standard Error: 10.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	10.0	0.47401	50.0	2143943.0	0.047401	Y
2	STD 280-616689/27	20.0	0.77899	50.0	2155996.0	0.03895	Y
3	STD 280-616689/26	50.0	1.76424	50.0	2151209.0	0.035285	Y
4	STD 280-616689/25	100.0	3.785038	50.0	2177759.0	0.03785	Y
5	STD 280-616689/24	500.0	17.463925	50.0	2166675.0	0.034928	Y
6	STD 280-616689/23	750.0	27.379608	50.0	2168687.0	0.036506	Y
7	STD 280-616689/22	1000.0	37.573826	50.0	2177086.0	0.037574	Y
8	STD 280-616689/21	2000.0	73.248375	50.0	2179462.0	0.036624	Y



Calibration

/ Methacrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

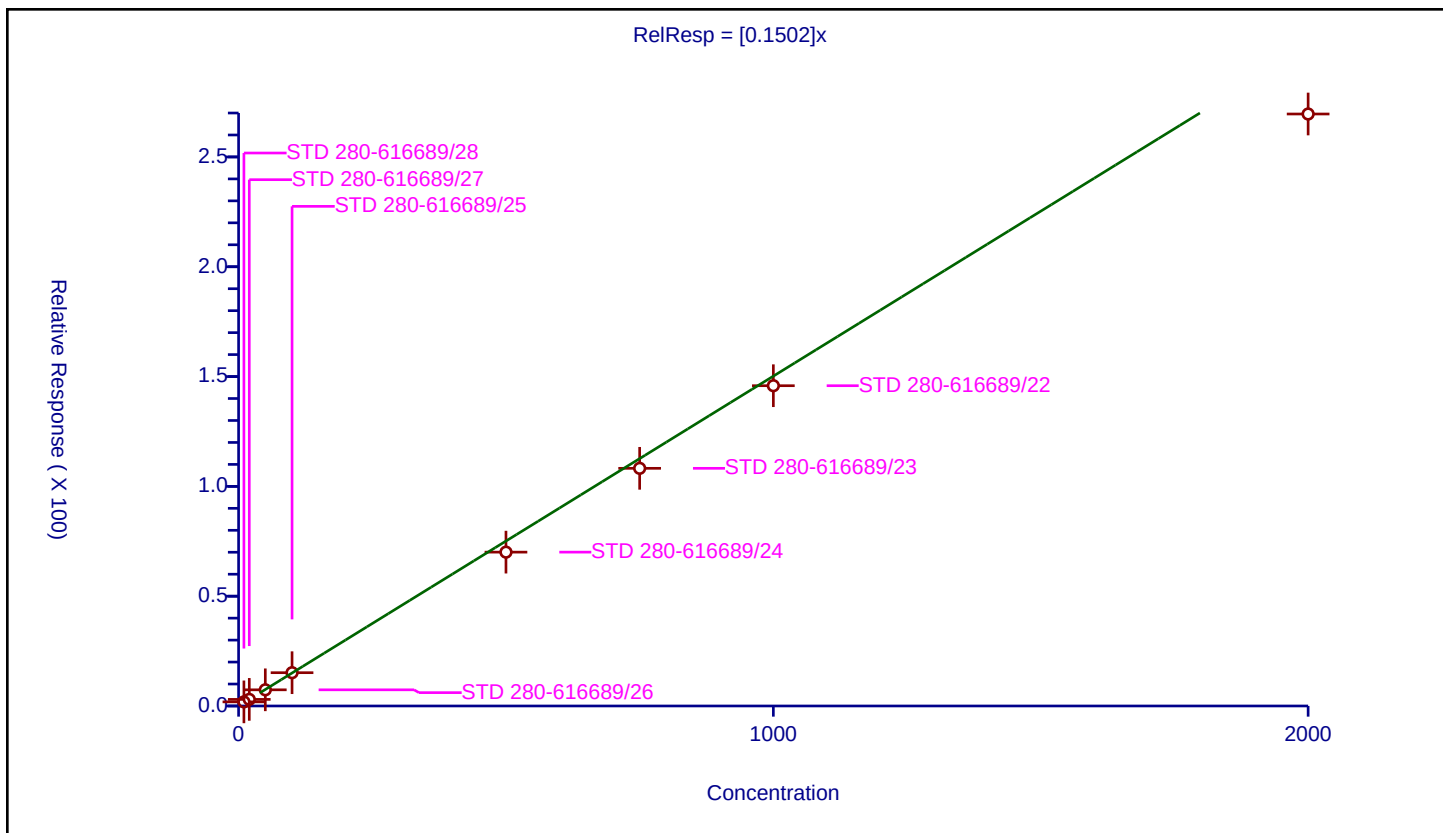
Curve Coefficients

Intercept: 0
 Slope: 0.1502

Error Coefficients

Standard Error: 5480000
 Relative Standard Error: 10.6
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	10.0	1.873627	50.0	2143943.0	0.187363	Y
2	STD 280-616689/27	20.0	3.003971	50.0	2155996.0	0.150199	Y
3	STD 280-616689/26	50.0	7.367438	50.0	2151209.0	0.147349	Y
4	STD 280-616689/25	100.0	15.16357	50.0	2177759.0	0.151636	Y
5	STD 280-616689/24	500.0	70.049961	50.0	2166675.0	0.1401	Y
6	STD 280-616689/23	750.0	108.218982	50.0	2168687.0	0.144292	Y
7	STD 280-616689/22	1000.0	145.83875	50.0	2177086.0	0.145839	Y
8	STD 280-616689/21	2000.0	269.555262	50.0	2179462.0	0.134778	Y



Calibration

/ Tert-amyl methyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

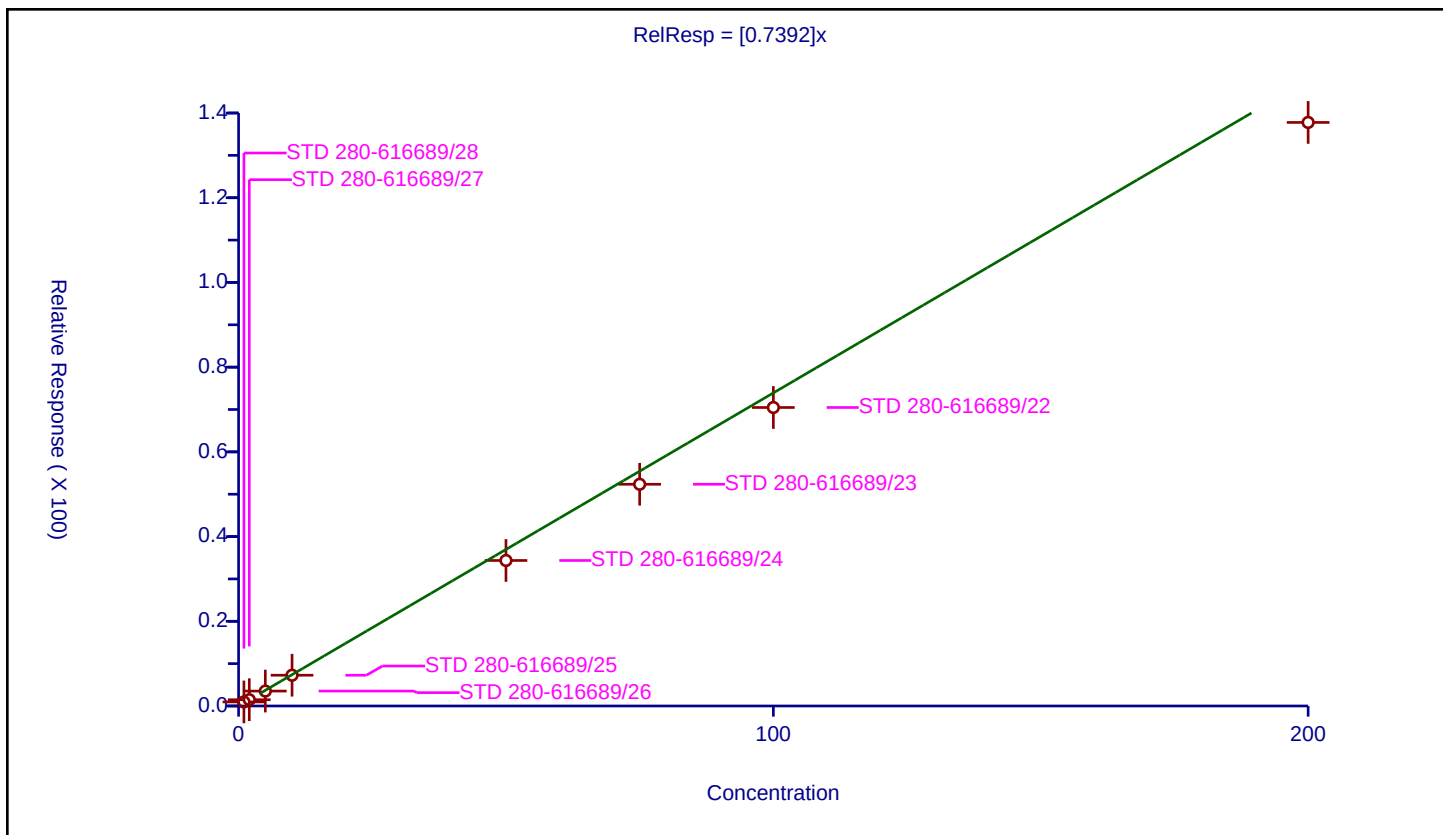
Curve Coefficients

Intercept: 0
Slope: 0.7392

Error Coefficients

Standard Error: 2750000
Relative Standard Error: 12.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	1.0	0.963202	50.0	2143943.0	0.963202	Y
2	STD 280-616689/27	2.0	1.482006	50.0	2155996.0	0.741003	Y
3	STD 280-616689/26	5.0	3.519718	50.0	2151209.0	0.703944	Y
4	STD 280-616689/25	10.0	7.263958	50.0	2177759.0	0.726396	Y
5	STD 280-616689/24	50.0	34.350745	50.0	2166675.0	0.687015	Y
6	STD 280-616689/23	75.0	52.350685	50.0	2168687.0	0.698009	Y
7	STD 280-616689/22	100.0	70.475512	50.0	2177086.0	0.704755	Y
8	STD 280-616689/21	200.0	137.777098	50.0	2179462.0	0.688885	Y



Calibration

/ n-Butanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

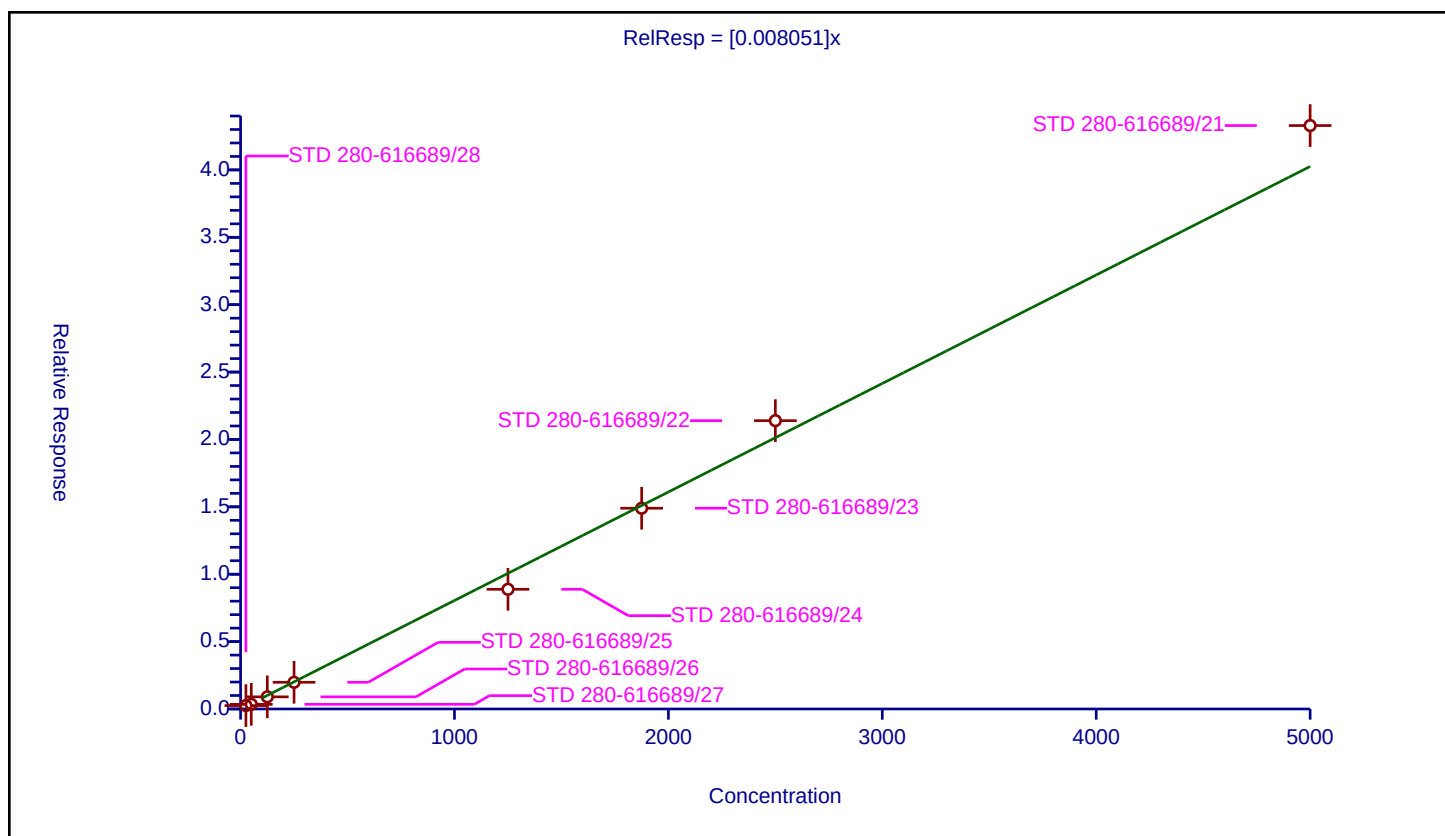
Curve Coefficients

Intercept: 0
Slope: 0.008051

Error Coefficients

Standard Error: 845000
Relative Standard Error: 13.0
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	25.0	0.252199	50.0	2143943.0	0.010088	Y
2	STD 280-616689/27	50.0	0.346012	50.0	2155996.0	0.00692	Y
3	STD 280-616689/26	125.0	0.901098	50.0	2151209.0	0.007209	Y
4	STD 280-616689/25	250.0	1.981532	50.0	2177759.0	0.007926	Y
5	STD 280-616689/24	1250.0	8.882458	50.0	2166675.0	0.007106	Y
6	STD 280-616689/23	1875.0	14.89664	50.0	2168687.0	0.007945	Y
7	STD 280-616689/22	2500.0	21.395641	50.0	2177086.0	0.008558	Y
8	STD 280-616689/21	5000.0	43.291051	50.0	2179462.0	0.008658	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

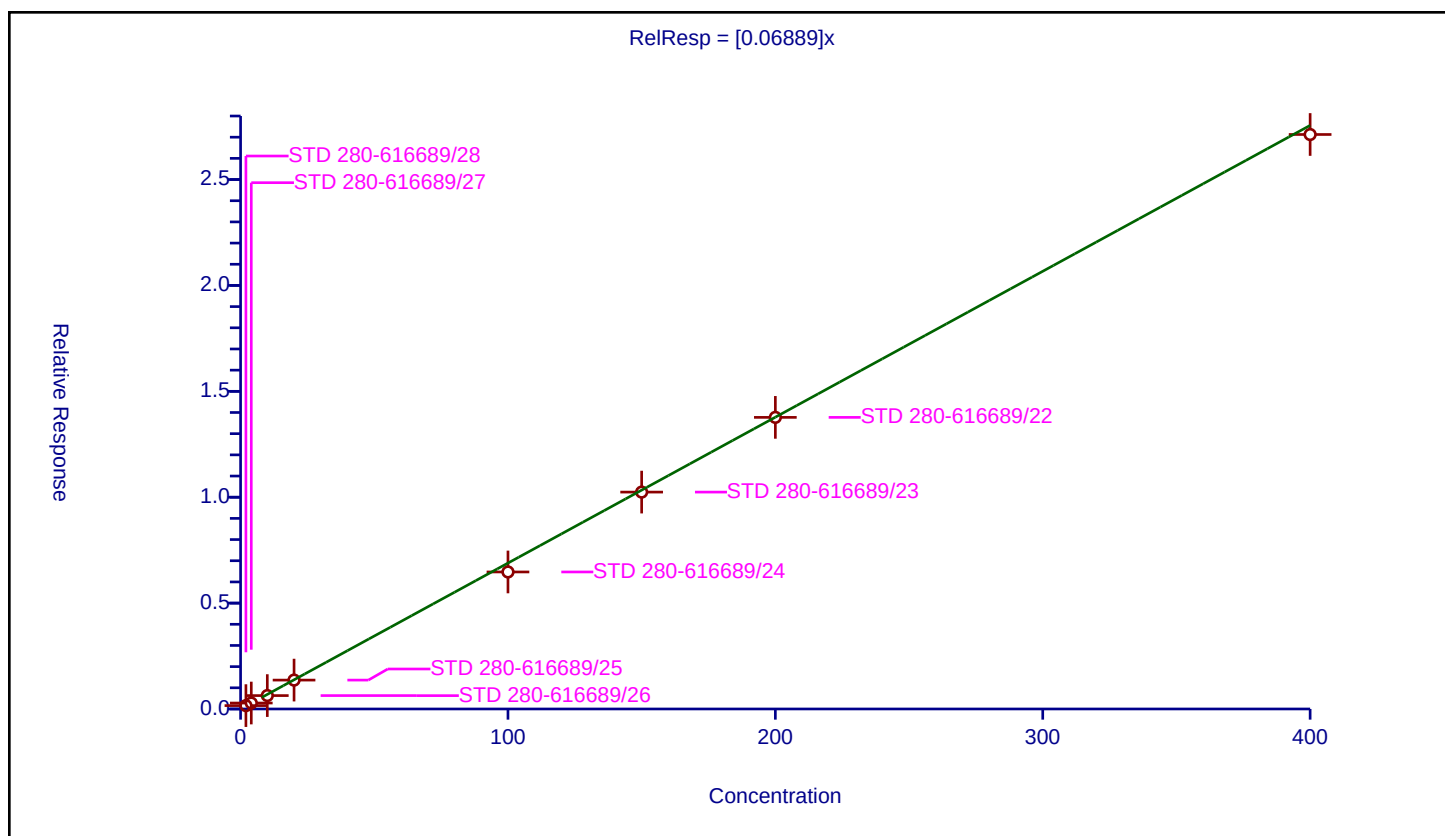
Curve Coefficients

Intercept: 0
Slope: 0.06889

Error Coefficients

Standard Error: 540000
Relative Standard Error: 7.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	2.0	0.159263	50.0	2143943.0	0.079631	Y
2	STD 280-616689/27	4.0	0.281332	50.0	2155996.0	0.070333	Y
3	STD 280-616689/26	10.0	0.632877	50.0	2151209.0	0.063288	Y
4	STD 280-616689/25	20.0	1.364797	50.0	2177759.0	0.06824	Y
5	STD 280-616689/24	100.0	6.470583	50.0	2166675.0	0.064706	Y
6	STD 280-616689/23	150.0	10.241427	50.0	2168687.0	0.068276	Y
7	STD 280-616689/22	200.0	13.770448	50.0	2177086.0	0.068852	Y
8	STD 280-616689/21	400.0	27.12674	50.0	2179462.0	0.067817	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

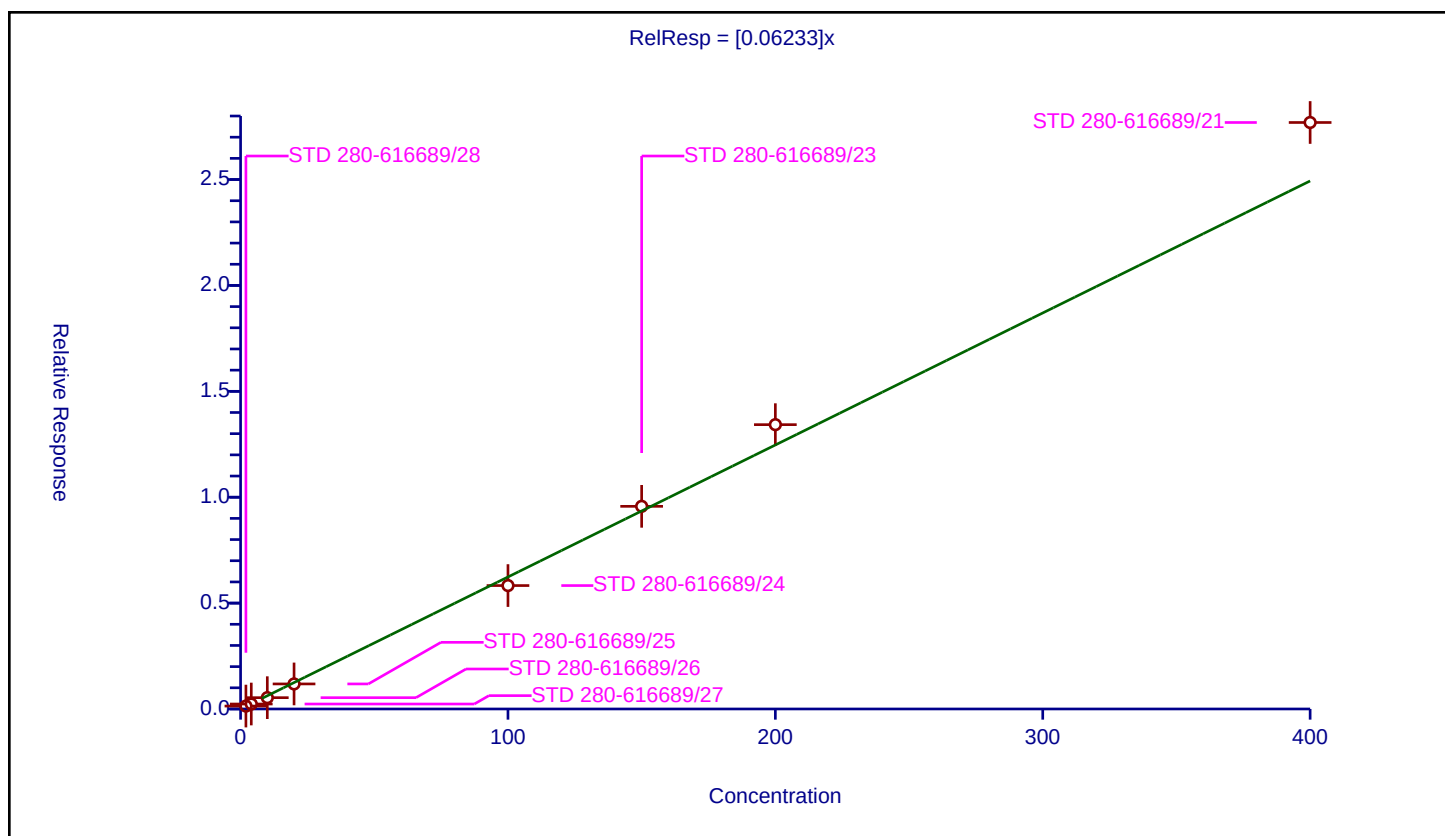
Curve Coefficients

Intercept: 0
Slope: 0.06233

Error Coefficients

Standard Error: 540000
Relative Standard Error: 9.3
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	2.0	0.138063	50.0	2143943.0	0.069032	Y
2	STD 280-616689/27	4.0	0.234532	50.0	2155996.0	0.058633	Y
3	STD 280-616689/26	10.0	0.534444	50.0	2151209.0	0.053444	Y
4	STD 280-616689/25	20.0	1.182385	50.0	2177759.0	0.059119	Y
5	STD 280-616689/24	100.0	5.827847	50.0	2166675.0	0.058278	Y
6	STD 280-616689/23	150.0	9.5698	50.0	2168687.0	0.063799	Y
7	STD 280-616689/22	200.0	13.425675	50.0	2177086.0	0.067128	Y
8	STD 280-616689/21	400.0	27.693509	50.0	2179462.0	0.069234	Y



Calibration

/ cis-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

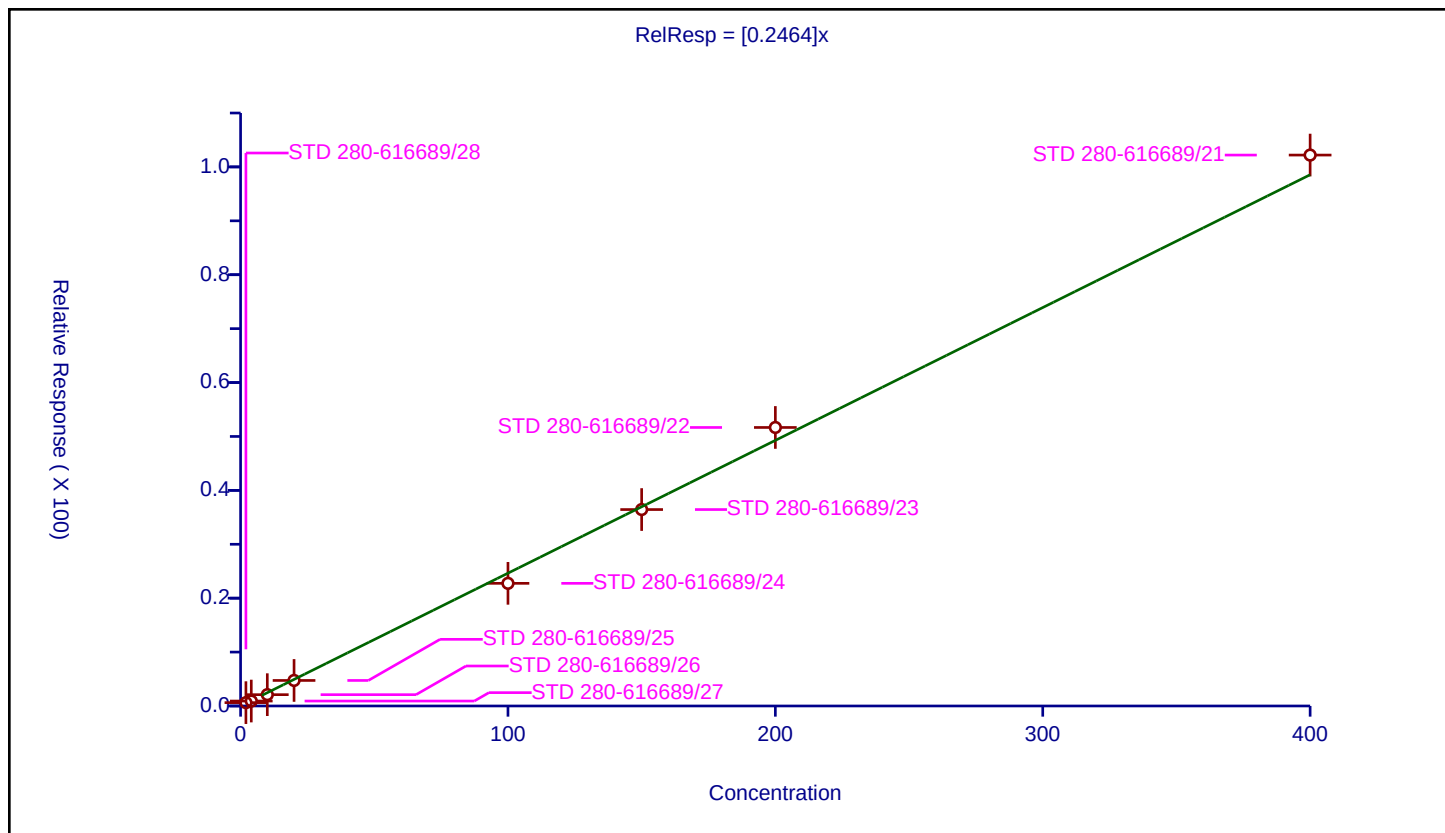
Curve Coefficients

Intercept: 0
Slope: 0.2464

Error Coefficients

Standard Error: 808000
Relative Standard Error: 12.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	2.0	0.620315	50.0	851825.0	0.310158	Y
2	STD 280-616689/27	4.0	0.917311	50.0	856961.0	0.229328	Y
3	STD 280-616689/26	10.0	2.102295	50.0	862272.0	0.210229	Y
4	STD 280-616689/25	20.0	4.738275	50.0	868871.0	0.236914	Y
5	STD 280-616689/24	100.0	22.753437	50.0	868816.0	0.227534	Y
6	STD 280-616689/23	150.0	36.438491	50.0	871142.0	0.242923	Y
7	STD 280-616689/22	200.0	51.666544	50.0	853263.0	0.258333	Y
8	STD 280-616689/21	400.0	102.19828	50.0	879301.0	0.255496	Y



Calibration

/ 1,2,3-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

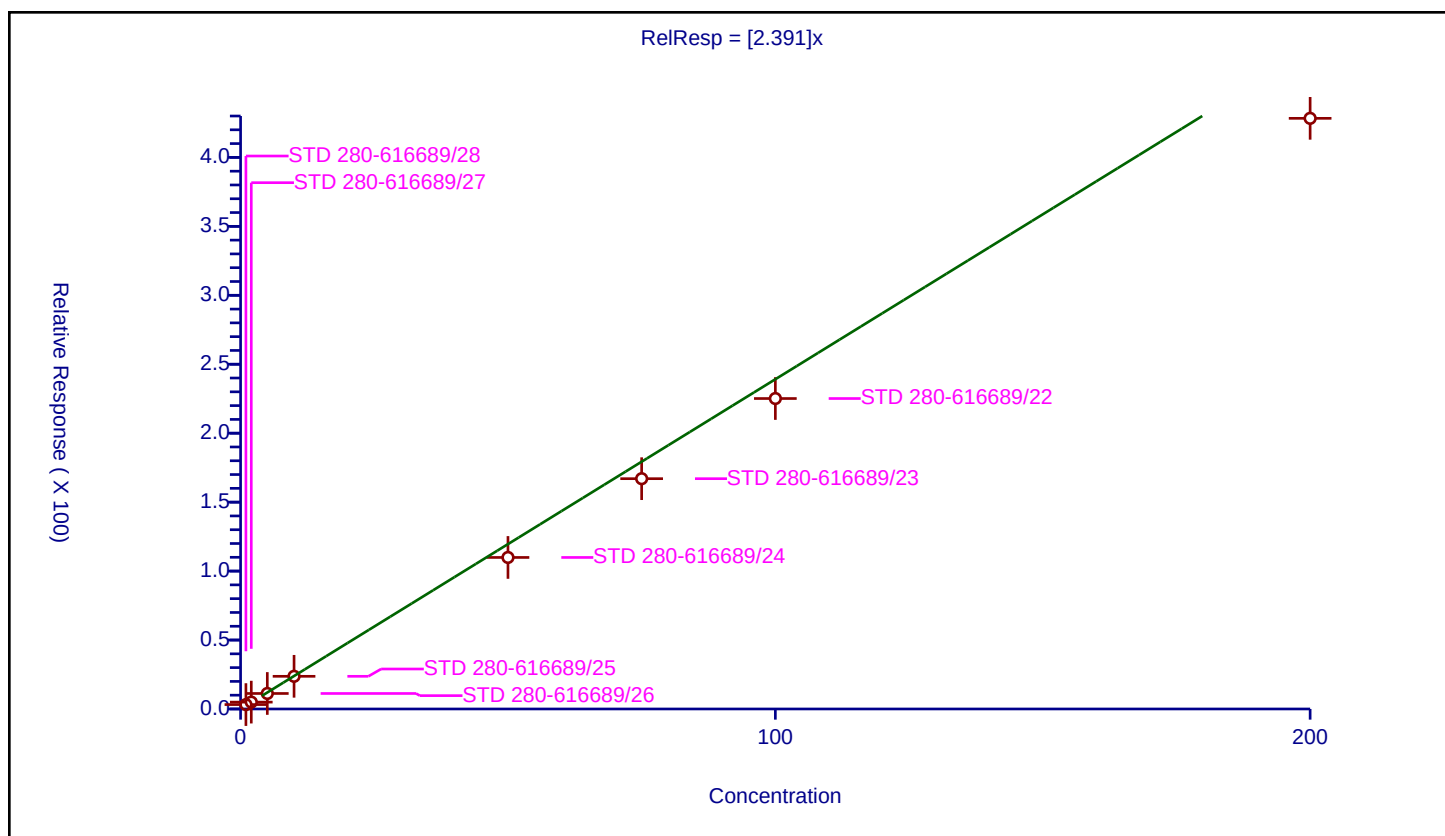
Curve Coefficients

Intercept: 0
Slope: 2.391

Error Coefficients

Standard Error: 3460000
Relative Standard Error: 14.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.967

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	1.0	3.200481	50.0	851825.0	3.200481	Y
2	STD 280-616689/27	2.0	4.983366	50.0	856961.0	2.491683	Y
3	STD 280-616689/26	5.0	11.245176	50.0	862272.0	2.249035	Y
4	STD 280-616689/25	10.0	23.70536	50.0	868871.0	2.370536	Y
5	STD 280-616689/24	50.0	109.878674	50.0	868816.0	2.197573	Y
6	STD 280-616689/23	75.0	167.004805	50.0	871142.0	2.226731	Y
7	STD 280-616689/22	100.0	225.144065	50.0	853263.0	2.251441	Y
8	STD 280-616689/21	200.0	428.325056	50.0	879301.0	2.141625	Y



Calibration

/ 1,3,5-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

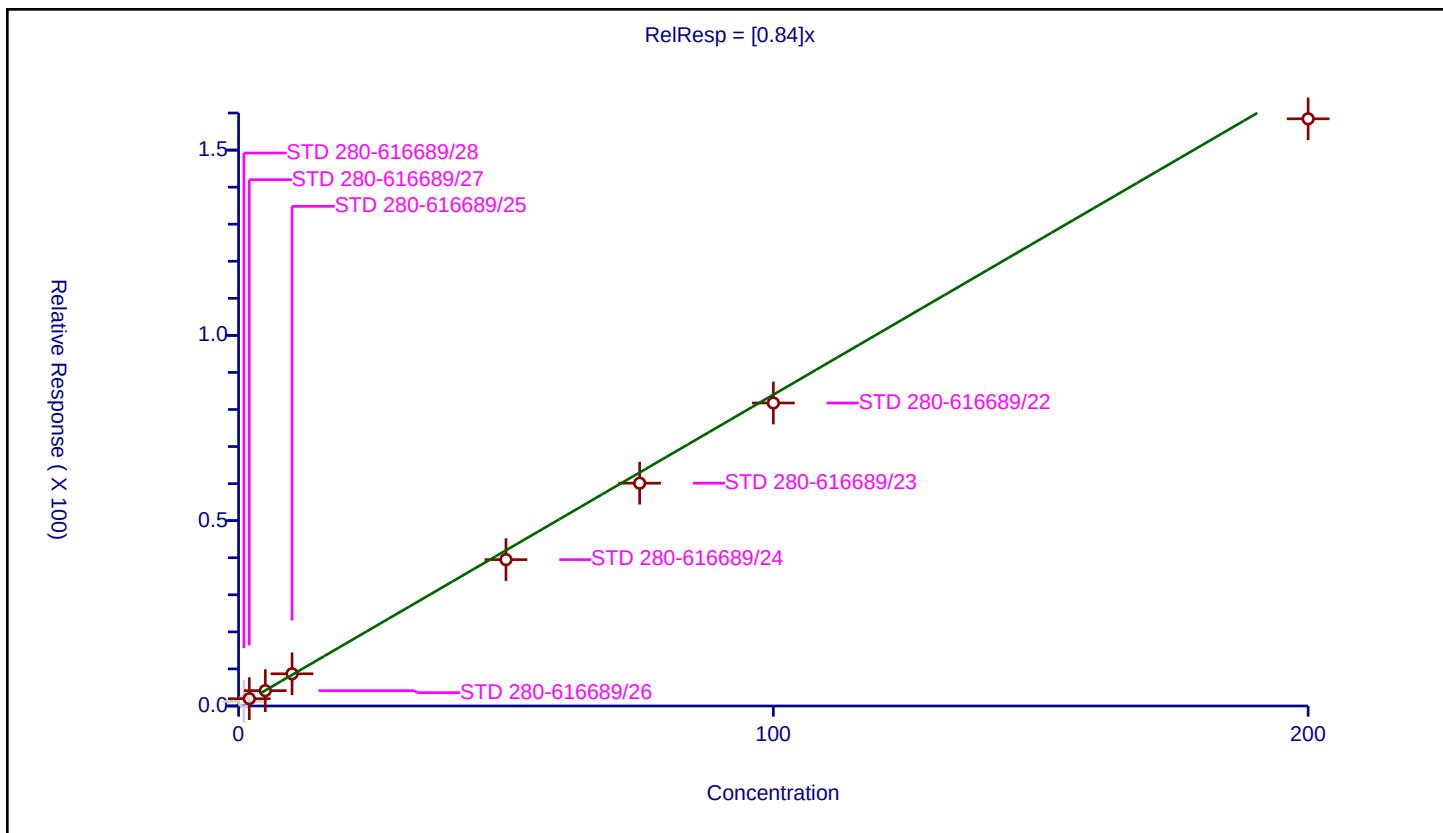
Curve Coefficients

Intercept: 0
 Slope: 0.84

Error Coefficients

Standard Error: 1370000
 Relative Standard Error: 8.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD 280-616689/28	1.0	1.210401	50.0	851825.0	1.210401	N
2	STD 280-616689/27	2.0	1.965025	50.0	856961.0	0.982513	Y
3	STD 280-616689/26	5.0	4.137905	50.0	862272.0	0.827581	Y
4	STD 280-616689/25	10.0	8.685524	50.0	868871.0	0.868552	Y
5	STD 280-616689/24	50.0	39.488626	50.0	868816.0	0.789773	Y
6	STD 280-616689/23	75.0	60.123665	50.0	871142.0	0.801649	Y
7	STD 280-616689/22	100.0	81.753867	50.0	853263.0	0.817539	Y
8	STD 280-616689/21	200.0	158.438066	50.0	879301.0	0.79219	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390
SDG No.: _____
Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) Y
Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-621390/21	ms11_00000440.D
Level 2	IC 280-621390/20	ms11_00000439.D
Level 3	IC 280-621390/19	ms11_00000438.D
Level 4	IC 280-621390/18	ms11_00000437.D
Level 5	IC 280-621390/17	ms11_00000436.D
Level 6	ICIS 280-621390/16	ms11_00000435.D
Level 7	IC 280-621390/15	ms11_00000434.D
Level 8	IC 280-621390/14	ms11_00000433.D
Level 9	IC 280-621390/13	ms11_00000432.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Dichlorodifluoromethane	0.1730 0.2191	0.1865 0.2165	0.2117 0.2281	0.2400 0.2478	0.2499	Ave		0.219 2				12.0		15.0			
Chloromethane	0.4506 0.3369	0.3619 0.3293	0.3594 0.3358	0.3736 0.3140	0.4044	Ave		0.362 9			0.1000	11.7		15.0			
Vinyl chloride	0.3414 0.3226	0.3457 0.3131	0.3186 0.3159	0.3163 0.3137	0.3624	Ave		0.327 8				5.4		30.0			
Bromomethane	++++ 0.1439	0.1644 0.1470	0.1748 0.1637	0.1489 0.1672	0.1461	Ave		0.157 0				7.5		15.0			
Chloroethane	0.2946 0.2125	0.2490 0.2077	0.2323 0.2089	0.2268 0.2045	0.2394	Ave		0.230 6				12.4		15.0			
Dichlorofluoromethane	0.6405 0.5626	0.6204 0.5462	0.5847 0.5521	0.5852 0.5483	0.6287	Ave		0.585 4				6.2		15.0			
Trichlorofluoromethane	0.4330 0.3483	0.3593 0.3478	0.3628 0.3504	0.3908 0.3868	0.3744	Ave		0.372 6				7.4		15.0			
Ethyl ether	0.2556 0.2170	0.2507 0.2139	0.2200 0.2246	0.2306 0.2159	0.2385	Ave		0.229 6				6.7		15.0			
Acrolein	0.0383 0.0378	0.0381 0.0363	0.0425 0.0375	0.0388 0.0379	0.0421	Ave		0.038 8				5.4		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1723 0.1385	0.1460 0.1349	0.1493 0.1478	0.1522 0.1472	0.1559	Ave		0.149 4				7.2		15.0			
1,1-Dichloroethene	0.2558 0.2035	0.2261 0.1984	0.2144 0.2060	0.2028 0.2059	0.2245	Ave		0.215 3				8.4		30.0			
Acetone	0.5192 0.0881	0.2774 0.0865	0.1683 0.0872	0.1210 0.0853	0.1132	Lin1	0.817 3	0.084 4							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390
SDG No.: _____
Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) Y
Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Iodomethane	0.2544 0.2396	0.1995 0.2485	0.1751 0.2614	0.1714 0.2908	0.1937	Lin1	-0.10 0	0.269 0						0.9910		0.9900	
Carbon disulfide	1.7060 0.7062	0.9540 0.6956	0.7912 0.7201	0.7310 0.6953	0.8062	Lin1	0.393 0	0.699 3						0.9990		0.9900	
Methyl acetate	0.2561 0.2061	0.2420 0.2065	0.2243 0.2102	0.2256 0.2025	0.2400	Ave		0.223 7			8.5	15.0					
Allyl chloride	+++++ 0.4238	0.5541 0.4244	0.4545 0.4355	0.4292 0.4134	0.4567	Ave		0.449 0			10.0	15.0					
Methylene Chloride	+++++ 0.2550	0.3447 0.2498	0.2921 0.2597	0.2758 0.2534	0.2884	Ave		0.277 4			11.4	15.0					
2-Methyl-2-propanol	0.0372 0.0294	0.0335 0.0298	0.0314 0.0299	0.0305 0.0290	0.0330	Ave		0.031 5			8.4	15.0					
Acrylonitrile	0.1212 0.1075	0.1170 0.1061	0.1147 0.1084	0.1140 0.1043	0.1231	Ave		0.112 9			6.0	15.0					
Methyl tert-butyl ether	0.8868 0.7720	0.8378 0.7716	0.7575 0.8000	0.7629 0.7900	0.8494	Ave		0.803 1			5.6	15.0					
trans-1,2-Dichloroethene	0.2918 0.2417	0.2723 0.2394	0.2380 0.2471	0.2336 0.2445	0.2628	Ave		0.252 3			7.7	15.0					
Hexane	1.0558 0.9050	1.0465 0.8704	0.8886 0.9475	0.9684 0.9448	0.9909	Ave		0.957 5			6.8	15.0					
Vinyl acetate	0.5455 0.5801	0.5279 0.6014	0.5469 0.6401	0.5688 0.5958	0.6027	Ave		0.578 8			6.1	15.0					
1,1-Dichloroethane	0.5259 0.4598	0.4660 0.4638	0.4753 0.4737	0.4589 0.4645	0.5028	Ave		0.476 7		0.1000	4.8	15.0					
2-Butanone (MEK)	+++++ 0.1423	0.4231 0.1398	0.3090 0.1398	0.2073 0.1364	0.1868	Lin2	1.169 1	0.143 0					0.9910		0.9900		
cis-1,2-Dichloroethene	0.3402 0.2691	0.3013 0.2672	0.3061 0.2801	0.2749 0.2753	0.3026	Ave		0.290 7			8.2	15.0					
2,2-Dichloropropane	0.4360 0.3920	0.4063 0.3861	0.3743 0.4167	0.3850 0.4104	0.4088	Ave		0.401 7			4.8	15.0					
sec-Butyl Alcohol	+++++ 0.0256	0.0274 0.0259	0.0267 0.0261	0.0261 0.0259	0.0281	Ave		0.026 5			3.3	15.0					
Chlorobromomethane	0.1765 0.1283	0.1466 0.1256	0.1407 0.1307	0.1332 0.1301	0.1402	Ave		0.139 1			11.2	15.0					
Tetrahydrofuran	+++++ 0.0890	0.0967 0.0887	0.0915 0.0923	0.0929 0.0905	0.1014	Ave		0.092 9			4.6	15.0					

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390
SDG No.: _____
Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) Y
Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chloroform	0.5372 0.4353	0.5093 0.4310	0.4481 0.4472	0.4422 0.4431	0.4715	Ave		0.462 8				7.9		30.0			
1,1,1-Trichloroethane	0.4326 0.3817	0.3884 0.3748	0.3550 0.3867	0.3724 0.3855	0.4106	Ave		0.387 5				5.8		15.0			
Cyclohexane	0.4114 0.3686	0.3775 0.3596	0.3561 0.3818	0.3864 0.3826	0.4009	Ave		0.380 5				4.7		15.0			
1,1-Dichloropropene	0.4442 0.3470	0.3898 0.3396	0.3415 0.3564	0.3365 0.3531	0.3683	Ave		0.364 0				9.4		15.0			
Carbon tetrachloride	0.3001 0.3159	0.2892 0.3114	0.2969 0.3307	0.2966 0.3302	0.3186	Ave		0.310 0				4.9		15.0			
Isobutyl alcohol	0.0130 0.0152	0.0149 0.0153	0.0140 0.0153	0.0143 0.0156	0.0159	Ave		0.014 8				6.1		15.0			
Benzene	1.0364 0.9999	1.0020 0.9825	1.0384 1.0221	1.0260 0.9955	1.0872	Ave		1.021 1				3.1		15.0			
1,2-Dichloroethane	++++ 0.3753	0.4761 0.3723	0.4167 0.3887	0.4009 0.3851	0.4175	Ave		0.404 1				8.4		15.0			
n-Heptane	++++ 0.2222	0.3659 0.2128	0.3091 0.2354	0.2796 0.2439	0.2605	Lin2	0.138 8	0.234 1							0.9950		0.9900
Trichloroethene	0.3054 0.2657	0.2959 0.2601	0.2817 0.2706	0.2738 0.2658	0.2923	Ave		0.279 0				5.6		15.0			
2-Pentanone	0.4480 0.2174	0.2958 0.2179	0.2591 0.2232	0.2375 0.2164	0.2444	Lin2	0.345 7	0.216 0							0.9950		0.9900
Methylcyclohexane	0.3488 0.2448	0.2701 0.2378	0.2501 0.2597	0.2530 0.2652	0.2685	Ave		0.266 5				12.3		15.0			
1,2-Dichloropropane	0.3400 0.2753	0.2828 0.2729	0.3018 0.2850	0.2923 0.2852	0.3013	Ave		0.292 9				6.9		30.0			
1,4-Dioxane	0.0048 0.0041	0.0047 0.0041	0.0047 0.0043	0.0045 0.0039	0.0052	Ave		0.004 5				8.9		15.0			
Dibromomethane	0.2148 0.1638	0.1986 0.1638	0.1739 0.1720	0.1709 0.1709	0.1832	Ave		0.179 1				9.6		15.0			
Dichlorobromomethane	0.3698 0.3331	0.3378 0.3340	0.3148 0.3521	0.3098 0.3537	0.3532	Ave		0.339 8				5.7		15.0			
2-Chloroethyl vinyl ether	0.2537 0.1816	0.1927 0.1827	0.1746 0.1821	0.1879 0.1859	0.1926	Ave		0.192 6				12.3		15.0			
cis-1,3-Dichloropropene	1.6193 1.5489	1.4825 1.5211	1.4310 1.5886	1.4453 1.5590	1.6037	Ave		1.533 3				4.5		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390
SDG No.: _____
Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) Y
Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
4-Methyl-2-pentanone (MIBK)	0.2779 0.2759	0.2697 0.2768	0.2785 0.2840	0.2808 0.2734	0.3036	Ave		0.280 1				3.5		15.0			
Toluene	1.2763 1.0607	1.1800 1.0493	1.0802 1.0835	1.1163 1.0540	1.1616	Ave		1.118 0				6.7		30.0			
trans-1,3-Dichloropropene	0.4669 0.4217	0.4417 0.4221	0.3783 0.4430	0.3995 0.4438	0.4366	Ave		0.428 2				6.2		15.0			
Ethyl methacrylate	1.4201 1.3031	1.2968 1.2692	1.2445 1.3140	1.2420 1.2919	1.3721	Ave		1.306 0				4.4		15.0			
1,1,2-Trichloroethane	0.2766 0.2252	0.2476 0.2274	0.2382 0.2370	0.2334 0.2355	0.2508	Ave		0.241 3				6.5		15.0			
Tetrachloroethene	0.8308 0.8087	0.8843 0.7770	0.7933 0.7991	0.8194 0.7955	0.8661	Ave		0.819 3				4.3		15.0			
1,3-Dichloropropane	1.9249 1.5434	1.5861 1.5234	1.5855 1.5737	1.5647 1.5610	1.6902	Ave		1.617 0				7.7		15.0			
2-Hexanone	0.7524 0.7294	0.7774 0.7191	0.7073 0.7199	0.7165 0.7006	0.8045	Ave		0.736 3				4.7		15.0			
Chlorodibromomethane	0.8540 0.9525	0.8816 0.9449	0.8133 0.9866	0.8293 1.0031	0.9725	Ave		0.915 3				7.8		15.0			
1,2-Dibromoethane	0.9940 0.8842	0.9604 0.8615	0.9237 0.8943	0.8989 0.8817	0.9551	Ave		0.917 1				4.8		15.0			
1-Chlorohexane	2.3325 1.2159	1.8831 1.1663	1.4287 1.2097	1.2813 1.1997	1.2891	Lin2	0.469 3	1.194 3							0.9980		0.9900
Chlorobenzene	3.0324 2.6160	3.0744 2.5542	2.7294 2.6362	2.6190 2.5934	2.8595	Ave		2.746 1			0.3000	7.1		15.0			
1,1,1,2-Tetrachloroethane	0.8929 0.9361	0.9598 0.9224	0.8201 0.9666	0.8495 0.9906	0.9593	Ave		0.921 9				6.2		15.0			
Ethylbenzene	1.6010 1.4437	1.4881 1.3889	1.4224 1.4383	1.4703 1.4500	1.4881	Ave		1.465 6				4.1		30.0			
m-Xylene & p-Xylene	3.4893 3.4961	3.6895 3.3769	3.6268 3.5212	3.5587 3.4818	3.6884	Ave		3.547 6				2.9		15.0			
o-Xylene	2.1681 1.7283	1.8797 1.6730	1.7345 1.7347	1.7121 1.7472	1.7925	Ave		1.796 7				8.4		15.0			
Styrene	2.9952 3.0230	2.9330 2.9290	2.8605 3.0607	2.8613 3.0684	3.1159	Ave		2.983 0				3.1		15.0			
Bromoform	0.6782 0.6507	0.6261 0.6673	0.6175 0.7047	0.5833 0.7219	0.6379	Ave		0.654 2			0.1000	6.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390
SDG No.: _____
Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) Y
Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Isopropylbenzene	2.5864 2.3507	2.5061 2.3431	2.3643 2.3567	2.3591 2.2614	2.5463	Ave		2.408 2				4.6		15.0			
Cyclohexanone	0.0647 0.0655	0.0649 0.0645	0.0638 0.0627	0.0641 0.0640	0.0737	Ave		0.065 3				4.9		15.0			
1,1,2,2-Tetrachloroethane	0.7772 0.6327	0.7077 0.6369	0.6625 0.6526	0.6629 0.6102	0.7103	Ave		0.672 6		0.3000		7.6		15.0			
Bromobenzene	0.7335 0.6608	0.7294 0.6557	0.6850 0.6755	0.6942 0.6545	0.7124	Ave		0.689 0				4.4		15.0			
trans-1,4-Dichloro-2-butene	0.2062 0.2270	0.2504 0.2351	0.1911 0.2390	0.2002 0.2379	0.2342	Ave		0.224 6				9.1		15.0			
1,2,3-Trichloropropane	0.2857 0.2020	0.2279 0.2015	0.2209 0.2096	0.2107 0.1947	0.2297	Ave		0.220 3				12.4		15.0			
N-Propylbenzene	0.7291 0.6601	0.7085 0.6538	0.6563 0.6714	0.6469 0.6523	0.6891	Ave		0.674 2				4.3		15.0			
2-Chlorotoluene	0.6678 0.5830	0.6379 0.5788	0.6063 0.5855	0.5988 0.5723	0.6285	Ave		0.606 5				5.3		15.0			
1,3,5-Trimethylbenzene	2.1483 1.9806	2.0909 1.9350	1.9119 1.9907	1.9798 1.9131	2.0924	Ave		2.004 8				4.3		15.0			
4-Chlorotoluene	0.7368 0.6237	0.6500 0.6183	0.6518 0.6182	0.6068 0.6120	0.6519	Ave		0.641 0				6.2		15.0			
tert-Butylbenzene	1.8996 1.9159	1.8235 1.6312	1.6320 1.9296	1.7186 1.5798	1.8026	Ave		1.770 3				7.6		15.0			
1,2,4-Trimethylbenzene	2.2890 2.0353	2.1629 2.0304	2.0378 2.0576	2.0364 1.9755	2.1988	Ave		2.091 5				4.9		15.0			
sec-Butylbenzene	0.5651 0.4792	0.5074 0.4727	0.4747 0.4901	0.4910 0.4727	0.5241	Ave		0.497 5				6.2		15.0			
1,3-Dichlorobenzene	1.7023 1.2048	1.3896 1.2016	1.2864 1.2071	1.2213 1.1795	1.3051	Ave		1.299 8				12.7		15.0			
4-Isopropyltoluene	2.4869 2.0131	2.1718 2.0229	2.0595 2.0555	1.9892 1.9593	2.1907	Ave		2.105 4				7.7		15.0			
1,4-Dichlorobenzene	1.7358 1.2260	1.5039 1.2213	1.3574 1.2478	1.3006 1.1870	1.3703	Ave		1.350 0				12.9		15.0			
n-Butylbenzene	2.0709 1.7496	1.9119 1.7311	1.6986 1.7878	1.7449 1.7224	1.8639	Ave		1.809 0				6.7		15.0			
1,2-Dichlorobenzene	1.3981 1.1389	1.2712 1.1425	1.2865 1.1478	1.2167 1.1662	1.2995	Ave		1.229 7				7.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390
SDG No.: _____
Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) Y
Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	0.1400 0.1474	0.1469 0.1518	0.1393 0.1556	0.1437 0.1587	0.1628	Ave		0.149 6				5.5		15.0			
1,2,4-Trichlorobenzene	1.3220 0.7856	1.1074 0.7970	1.0110 0.8112	0.9097 0.7593	0.9835	Lin2	0.259 0	0.832 2							0.9930		0.9900
Hexachlorobutadiene	0.6429 0.3588	0.5102 0.3528	0.4259 0.3603	0.3868 0.3311	0.4529	Lin2	0.140 8	0.364 4							0.9910		0.9900
Naphthalene	3.3134 2.0607	2.7913 2.0681	2.6129 2.0962	2.4112 1.8243	2.6526	Lin1	1.078 9	1.964 3							0.9940		0.9900
1,2,3-Trichlorobenzene	++++ 0.6968	1.0732 0.7017	0.9636 0.7155	0.8835 0.6204	0.9283	Lin1	0.686 1	0.664 4							0.9930		0.9900
Dibromofluoromethane (Surr)	0.2781 0.2799	0.2792 0.2845	0.2751 0.2787	0.2804 0.2799	0.2773	Ave		0.279 2				0.9		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3514 0.3667	0.3502 0.3792	0.3521 0.3837	0.3538 0.3504	0.3521	Ave		0.359 9				3.7		15.0			
Toluene-d8 (Surr)	4.0379 4.0409	4.0672 4.0094	4.0470 3.9781	4.0596 3.9864	4.0660	Ave		4.032 5				0.8		15.0			
4-Bromofluorobenzene (Surr)	0.8659 0.8649	0.8613 0.8743	0.8564 0.8595	0.8600 0.8464	0.8521	Ave		0.860 1				0.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390

SDG No.: _____

Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-621390/21	ms11_00000440.D
Level 2	IC 280-621390/20	ms11_00000439.D
Level 3	IC 280-621390/19	ms11_00000438.D
Level 4	IC 280-621390/18	ms11_00000437.D
Level 5	IC 280-621390/17	ms11_00000436.D
Level 6	ICIS 280-621390/16	ms11_00000435.D
Level 7	IC 280-621390/15	ms11_00000434.D
Level 8	IC 280-621390/14	ms11_00000433.D
Level 9	IC 280-621390/13	ms11_00000432.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Ave	3161 438338	6886 641505	16365 905413	45529 1955865	96238	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Ave	8235 674211	13364 975650	27780 1333193	70863 2478098	155729	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Ave	6240 645573	12766 927684	24623 1254285	60008 2476458	139555	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Ave	++++ 287986	6071 435493	13508 649782	28244 1320112	56253	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	5385 425314	9195 615521	17955 829185	43027 1614247	92180	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	11706 1125848	22908 1618547	45190 2191943	111014 4327415	242080	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	7913 697060	13269 1030513	28043 1391165	74132 3053435	144149	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl ether	FB	Ave	4671 434309	9258 633765	17000 891643	43744 1704031	91821	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	6918 746382	13898 1063574	32458 1471754	72681 2953854	160161	4.94 494	9.88 741	19.8 988	49.4 1975	98.8
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	3149 277189	5390 399859	11538 586954	28869 1162123	60020	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloroethene	FB	Ave	4675 407146	8350 587772	16568 817890	38478 1625046	86444	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin1	37957 704907	40967 1025531	52032 1384615	91815 2692830	174291	2.00 200	4.00 300	8.00 400	20.0 800	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390

SDG No.: _____

Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Iodomethane	FB	Lin1	4650 479379	7366 736270	13534 1037759	32516 2295325	74581	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon disulfide	FB	Lin1	31179 1413140	35229 2061272	61150 2858971	138671 5488100	310435	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methyl acetate	FB	Ave	9361 824736	17874 1223528	34678 1668983	85584 3196623	184833	1.00 100	2.00 150	4.00 200	10.0 400	20.0
Allyl chloride	FB	Ave	++++ 848136	20459 1257505	35128 1728918	81426 3262676	175869	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methylene Chloride	FB	Ave	++++ 510319	12728 740261	22577 1030888	52317 2000023	111033	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Methyl-2-propanol	FB	Ave	6805 587561	12375 883843	24281 1188445	57889 2290909	126967	5.00 500	10.0 750	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Ave	22148 2150575	43191 3143713	88645 4301830	216246 8229198	474078	5.00 500	10.0 750	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	16207 1544736	30935 2286492	58542 3175826	144716 6235561	327058	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	5333 483641	10054 709377	18395 981126	44308 1929672	101181	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexane	CBNZ d5	Ave	5231 485828	10347 704400	18380 1037153	49804 2081476	103222	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Ave	19941 2321637	38984 3564057	84532 5082044	215791 9405298	464162	1.00 100	2.00 150	4.00 200	10.0 400	20.0
1,1-Dichloroethane	FB	Ave	9611 920056	17207 1374324	36736 1880656	87046 3666134	193620	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Lin2	++++ 1139236	62493 1656970	95532 2220474	157294 4305297	287653	++++ 200	4.00 300	8.00 400	20.0 800	40.0
cis-1,2-Dichloroethene	FB	Ave	6217 538473	11127 791826	23660 1111939	52149 2172605	116500	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	7968 784387	15004 1144124	28930 1654152	73028 3239398	157410	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butyl Alcohol	FB	Ave	++++ 1227942	24257 1839201	49455 2491503	118674 4905190	259998	++++ 1200	24.0 1800	48.0 2400	120 4800	240
Chlorobromomethane	FB	Ave	3225 256697	5413 372203	10871 518921	25274 1026941	53972	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	++++ 7143	7143	14145	35236	78120	++++ 2.00	2.00	4.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390

SDG No.: _____

Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
			356229	525614	732594	1428909		100	150	200	400	
Chloroform	FB	Ave	9818 871044	18808 1277122	34634 1775233	83890 3497343	181564	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	7907 763740	14343 1110627	27438 1535379	70639 3042560	158095	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	7519 737562	13938 1065593	27521 1515881	73302 3019664	154365	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	8119 694388	14394 1006264	26391 1414881	63830 2787042	141819	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	5484 632210	10680 922866	22949 1313005	56273 2606166	122674	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isobutyl alcohol	FB	Ave	5951 760041	13718 1135225	27030 1518278	67819 3069966	153306	12.5 1250	25.0 1875	50.0 2500	125 5000	250
Benzene	FB	Ave	18942 2000773	37000 2911308	80259 4057644	194623 7857558	418620	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	+++++ 750969	17580 1103227	32207 1543159	76049 3039800	160769	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Heptane	FB	Lin2	+++++ 444716	13512 630525	23892 934683	53032 1925419	100319	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichloroethene	FB	Ave	5581 531615	10925 770744	21769 1074205	51947 2098156	112531	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Pentanone	FB	Lin2	26203 1392085	34956 2066118	64082 2835628	144188 5466693	301194	1.60 160	3.20 240	6.40 320	16.0 640	32.0
Methylcyclohexane	FB	Ave	6375 489868	9974 704724	19332 1031025	47988 2093614	103366	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	6213 550984	10442 808555	23329 1131318	55450 2251119	116009	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Ave	1756 164918	3449 245874	7245 338804	16912 620636	39913	10.0 1000	20.0 1500	40.0 2000	100 4000	200
Dibromomethane	FB	Ave	3925 327722	7333 485322	13440 683023	32420 1349055	70559	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorobromomethane	FB	Ave	6759 666584	12473 989850	24329 1398001	58762 2791825	136002	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Ave	4637 363400	7114 541393	13495 723064	35637 1467249	74144	0.500 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390

SDG No.: _____

Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
cis-1,3-Dichloropropene	CBNZ d5	Ave	8023	14658	29600	74332	167062	0.500	1.00	2.00	5.00	10.0
			831459	1231028	1738964	3434616		50.0	75.0	100	200	
4-Methyl-2-pentanone (MIBK)	FB	Ave	20314	39829	86086	213098	467664	2.00	4.00	8.00	20.0	40.0
			2208470	3280478	4509857	8631672		200	300	400	800	
Toluene	FB	Ave	23325	43572	83485	211757	447263	0.500	1.00	2.00	5.00	10.0
			2122478	3109364	4301670	8319603		50.0	75.0	100	200	
trans-1,3-Dichloropropene	FB	Ave	8533	16312	29240	75792	168109	0.500	1.00	2.00	5.00	10.0
			843909	1250881	1758585	3502812		50.0	75.0	100	200	
Ethyl methacrylate	CBNZ d5	Ave	7036	12822	25743	63879	142936	0.500	1.00	2.00	5.00	10.0
			699531	1027136	1438316	2846276		50.0	75.0	100	200	
1,1,2-Trichloroethane	FB	Ave	5056	9143	18413	44272	96559	0.500	1.00	2.00	5.00	10.0
			450620	673758	940725	1858805		50.0	75.0	100	200	
Tetrachloroethene	CBNZ d5	Ave	4116	8743	16410	42142	90221	0.500	1.00	2.00	5.00	10.0
			434109	628821	874778	1752464		50.0	75.0	100	200	
1,3-Dichloropropane	CBNZ d5	Ave	9537	15682	32797	80477	176075	0.500	1.00	2.00	5.00	10.0
			828537	1232913	1722575	3439124		50.0	75.0	100	200	
2-Hexanone	CBNZ d5	Ave	14911	30745	58523	147399	335216	2.00	4.00	8.00	20.0	40.0
			1566247	2327876	3152000	6174384		200	300	400	800	
Chlorodibromomethane	CBNZ d5	Ave	4231	8717	16824	42650	101307	0.500	1.00	2.00	5.00	10.0
			511299	764722	1079916	2209881		50.0	75.0	100	200	
1,2-Dibromoethane	CBNZ d5	Ave	4925	9496	19108	46230	99495	0.500	1.00	2.00	5.00	10.0
			474626	697186	978948	1942469		50.0	75.0	100	200	
1-Chlorohexane	CBNZ d5	Lin2	9245	14895	23643	52721	107437	0.400	0.800	1.60	4.00	8.00
			522185	755072	1059381	2114381		40.0	60.0	80.0	160	
Chlorobenzene	CBNZ d5	Ave	15024	30398	56459	134697	297886	0.500	1.00	2.00	5.00	10.0
			1404323	2067121	2885711	5713404		50.0	75.0	100	200	

FORM VI
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RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390

SDG No.: _____

Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4424	9490	16964	43692	99933	0.500	1.00	2.00	5.00	10.0
			502488	746511	1058091	2182289		50.0	75.0	100	200	
Ethylbenzene	CBNZ d5	Ave	7932	14713	29423	75620	155018	0.500	1.00	2.00	5.00	10.0
			774993	1124003	1574455	3194567		50.0	75.0	100	200	
m-Xylene & p-Xylene	CBNZ d5	Ave	17288	36479	75021	183030	384233	0.500	1.00	2.00	5.00	10.0
			1876737	2732912	3854400	7670675		50.0	75.0	100	200	
o-Xylene	CBNZ d5	Ave	10742	18585	35879	88058	186730	0.500	1.00	2.00	5.00	10.0
			927756	1353969	1898823	3849349		50.0	75.0	100	200	
Styrene	CBNZ d5	Ave	14840	28999	59170	147162	324598	0.500	1.00	2.00	5.00	10.0
			1622765	2370451	3350352	6759887		50.0	75.0	100	200	
Bromoform	CBNZ d5	Ave	3360	6190	12773	30000	66451	0.500	1.00	2.00	5.00	10.0
			349304	540019	771408	1590444		50.0	75.0	100	200	
Isopropylbenzene	DCBd 4	Ave	23119	44931	88713	220100	480324	0.500	1.00	2.00	5.00	10.0
			2314254	3396175	4706163	9258039		50.0	75.0	100	200	
Cyclohexanone	CBNZ d5	Ave	9623	19238	39572	98964	230283	15.0	30.0	60.0	150	300
			1055594	1565664	2060358	4227983		1500	2250	3000	6000	
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6947	12688	24859	61851	133989	0.500	1.00	2.00	5.00	10.0
			622936	923142	1303290	2498244		50.0	75.0	100	200	
Bromobenzene	DCBd 4	Ave	6557	13078	25703	64770	134377	0.500	1.00	2.00	5.00	10.0
			650569	950308	1348977	2679562		50.0	75.0	100	200	
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1843	4489	7171	18676	44188	0.500	1.00	2.00	5.00	10.0
			223484	340822	477343	973847		50.0	75.0	100	200	
1,2,3-Trichloropropane	DCBd 4	Ave	2554	4086	8288	19659	43339	0.500	1.00	2.00	5.00	10.0
			198843	292061	418508	797176		50.0	75.0	100	200	

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390

SDG No.: _____

Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
N-Propylbenzene	DCBd 4	Ave	6517	12702	24626	60355	129988	0.500	1.00	2.00	5.00	10.0
			649902	947608	1340730	2670286		50.0	75.0	100	200	
2-Chlorotoluene	DCBd 4	Ave	5969	11437	22748	55869	118567	0.500	1.00	2.00	5.00	10.0
			573936	838869	1169314	2342848		50.0	75.0	100	200	
1,3,5-Trimethylbenzene	DCBd 4	Ave	19203	37488	71738	184716	394710	0.500	1.00	2.00	5.00	10.0
			1949896	2804659	3975382	7832145		50.0	75.0	100	200	
4-Chlorotoluene	DCBd 4	Ave	6586	11653	24456	56609	122973	0.500	1.00	2.00	5.00	10.0
			614049	896119	1234465	2505666		50.0	75.0	100	200	
tert-Butylbenzene	DCBd 4	Ave	16980	32693	61238	160345	340038	0.500	1.00	2.00	5.00	10.0
			1886221	2364292	3853325	6467433		50.0	75.0	100	200	
1,2,4-Trimethylbenzene	DCBd 4	Ave	20461	38779	76462	189992	414780	0.500	1.00	2.00	5.00	10.0
			2003756	2942867	4108908	8087674		50.0	75.0	100	200	
sec-Butylbenzene	DCBd 4	Ave	5051	9097	17812	45813	98872	0.500	1.00	2.00	5.00	10.0
			471800	685180	978749	1935291		50.0	75.0	100	200	
1,3-Dichlorobenzene	DCBd 4	Ave	15217	24914	48269	113944	246200	0.500	1.00	2.00	5.00	10.0
			1186169	1741648	2410472	4828750		50.0	75.0	100	200	
4-Isopropyltoluene	DCBd 4	Ave	22230	38938	77277	185588	413243	0.500	1.00	2.00	5.00	10.0
			1981945	2932046	4104671	8021228		50.0	75.0	100	200	
1,4-Dichlorobenzene	DCBd 4	Ave	15516	26964	50934	121344	258492	0.500	1.00	2.00	5.00	10.0
			1206999	1770163	2491847	4859545		50.0	75.0	100	200	
n-Butylbenzene	DCBd 4	Ave	18511	34278	63737	162799	351611	0.500	1.00	2.00	5.00	10.0
			1722535	2509122	3570057	7051470		50.0	75.0	100	200	
1,2-Dichlorobenzene	DCBd 4	Ave	12497	22792	48272	113518	245127	0.500	1.00	2.00	5.00	10.0
			1121243	1655880	2292029	4774378		50.0	75.0	100	200	

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621390

SDG No.: _____

Instrument ID: VMS_MS11 GC Column: RXI-624SilM ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 08/01/2023 07:39 Calibration End Date: 08/01/2023 10:30 Calibration ID: 83072

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1251	2633	5228	13411	30712	0.500	1.00	2.00	5.00	10.0
			145105	220053	310681	649784		50.0	75.0	100	200	
1,2,4-Trichlorobenzene	DCBd 4	Lin2	11817	19854	37934	84871	185517	0.500	1.00	2.00	5.00	10.0
			773416	1155232	1619903	3108293		50.0	75.0	100	200	
Hexachlorobutadiene	DCBd 4	Lin2	5747	9147	15981	36091	85437	0.500	1.00	2.00	5.00	10.0
			353258	511299	719490	1355428		50.0	75.0	100	200	
Naphthalene	DCBd 4	Lin1	29618	50045	98042	224959	500375	0.500	1.00	2.00	5.00	10.0
			2028817	2997486	4185921	7468608		50.0	75.0	100	200	
1,2,3-Trichlorobenzene	DCBd 4	Lin1	+++++	19242	36155	82433	175108	+++++	1.00	2.00	5.00	10.0
			686052	1017029	1428746	2540053		50.0	75.0	100	200	
Dibromofluoromethane (Surr)	FB	Ave	508251	515461	531572	531860	533930	50.0	50.0	50.0	50.0	50.0
			560098	562099	553251	552384		50.0	50.0	50.0	50.0	
1,2-Dichloroethane-d4 (Surr)	FB	Ave	642138	646493	680355	671163	677937	50.0	50.0	50.0	50.0	50.0
			733818	749011	761569	691516		50.0	50.0	50.0	50.0	
Toluene-d8 (Surr)	CBNZ d5	Ave	2000580	2010667	2092812	2087898	2117867	50.0	50.0	50.0	50.0	50.0
			2169196	2163208	2177308	2195607		50.0	50.0	50.0	50.0	
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	774008	772142	803357	802384	803668	50.0	50.0	50.0	50.0	50.0
			851525	844792	858158	866272		50.0	50.0	50.0	50.0	

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000432.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 01-Aug-2023 07:39:30 ALS Bottle#: 4 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub1
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 11:35:46 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 10:30:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	99	1973281	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.567	7.567	0.000	88	550774	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	96	1023473	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	97	552384	50.0	50.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.830	4.830	0.000	0	691516	50.0	48.7	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	93	2195607	50.0	49.4	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.657	0.000	96	866272	50.0	49.2	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	1955865	200.0	226.1	
10 Chloromethane	50	1.869	1.869	0.000	99	2478098	200.0	173.0	
11 Vinyl chloride	62	1.981	1.981	0.000	98	2476458	200.0	191.4	
12 Bromomethane	94	2.246	2.246	0.000	92	1320112	200.0	213.1	
13 Chloroethane	64	2.344	2.344	0.000	99	1614247	200.0	177.3	
14 Dichlorofluoromethane	67	2.512	2.512	0.000	98	4327415	200.0	187.3	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	99	3053435	200.0	207.6	
17 Ethyl ether	59	2.763	2.763	0.000	94	1704031	200.0	188.0	
18 Acrolein	56	2.875	2.875	0.000	99	2953854	1975.0	1927.6	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	67	1162123	200.0	197.2	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	96	1625046	200.0	191.3	
21 Acetone	43	2.973	2.973	0.000	99	2692830	800.0	798.6	
23 Iodomethane	142	3.084	3.084	0.000	100	2295325	200.0	216.6	
24 Carbon disulfide	76	3.140	3.140	0.000	100	5488100	200.0	198.3	
26 Methyl acetate	43	3.196	3.196	0.000	98	3196623	400.0	362.1	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	89	3262676	200.0	184.1	
28 Methylene Chloride	84	3.308	3.308	0.000	97	2000023	200.0	182.7	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	98	2290909	2000.0	1840.8	
30 Acrylonitrile	53	3.475	3.475	0.000	97	8229198	2000.0	1846.8	
31 Methyl tert-butyl ether	73	3.503	3.503	0.000	97	6235561	200.0	196.7	
32 trans-1,2-Dichloroethene	96	3.517	3.517	0.000	97	1929672	200.0	193.8	
33 Hexane	57	3.699	3.699	0.000	96	2081476	200.0	197.3	
34 Vinyl acetate	43	3.797	3.797	0.000	98	9405298	400.0	411.7	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	96	3666134	200.0	194.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	4.202	4.202	0.000	100	4305297	800.0	754.5	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	85	2172605	200.0	189.3	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	91	3239398	200.0	204.3	
44 sec-Butyl Alcohol	45	4.313	4.313	0.000	99	4905190	4800.0	4696.7	
46 Chlorobromomethane	128	4.411	4.411	0.000	98	1026941	200.0	187.1	
47 Tetrahydrofuran	42	4.411	4.411	0.000	88	1428909	400.0	389.8	
48 Chloroform	83	4.467	4.467	0.000	94	3497343	200.0	191.5	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	98	3042560	200.0	198.9	
50 Cyclohexane	56	4.663	4.663	0.000	95	3019664	200.0	201.1	
52 Carbon tetrachloride	117	4.718	4.718	0.000	93	2606166	200.0	213.0	
51 1,1-Dichloropropene	75	4.718	4.718	0.000	94	2787042	200.0	194.0	
53 Isobutyl alcohol	43	4.732	4.732	0.000	93	3069966	5000.0	5245.2	
54 Benzene	78	4.872	4.872	0.000	98	7857558	200.0	195.0	
55 1,2-Dichloroethane	62	4.900	4.900	0.000	97	3039800	200.0	190.6	
57 n-Heptane	43	5.040	5.040	0.000	95	1925419	200.0	207.8	
59 Trichloroethene	130	5.347	5.347	0.000	97	2098156	200.0	190.5	
60 2-Pentanone	43	5.445	5.445	0.000	99	5466693	640.0	639.7	
61 Methylcyclohexane	55	5.542	5.542	0.000	94	2093614	200.0	199.1	
62 1,2-Dichloropropane	63	5.556	5.556	0.000	92	2251119	200.0	194.7	
64 1,4-Dioxane	88	5.598	5.598	0.000	96	620636	4000.0	3514.6	
65 Dibromomethane	93	5.626	5.626	0.000	94	1349055	200.0	190.9	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	2791825	200.0	208.2	
68 2-Chloroethyl vinyl ether	63	5.933	5.933	0.000	94	1467249	200.0	193.0	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	93	3434616	200.0	203.4	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	97	8631672	800.0	781.0	
71 Toluene	91	6.366	6.366	0.000	98	8319603	200.0	188.6	
72 trans-1,3-Dichloropropene	75	6.548	6.548	0.000	99	3502812	200.0	207.3	
73 Ethyl methacrylate	69	6.562	6.562	0.000	90	2846276	200.0	197.9	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	93	1858805	200.0	195.2	
75 Tetrachloroethene	164	6.813	6.813	0.000	98	1752464	200.0	194.2	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	97	3439124	200.0	193.1	
77 2-Hexanone	43	6.883	6.883	0.000	97	6174384	800.0	761.2	
78 Chlorodibromomethane	129	7.051	7.051	0.000	90	2209881	200.0	219.2	
79 Ethylene Dibromide	107	7.162	7.162	0.000	98	1942469	200.0	192.3	
80 1-Chlorohexane	91	7.554	7.554	0.000	97	2114381	160.0	160.3	
81 Chlorobenzene	112	7.595	7.595	0.000	93	5713404	200.0	188.9	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	93	2182289	200.0	214.9	
83 Ethylbenzene	106	7.665	7.665	0.000	99	3194567	200.0	197.9	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	7670675	200.0	196.3	
85 o-Xylene	106	8.140	8.140	0.000	95	3849349	200.0	194.5	
86 Styrene	104	8.154	8.154	0.000	91	6759887	200.0	205.7	
87 Bromoform	173	8.336	8.336	0.000	96	1590444	200.0	220.7	
88 Isopropylbenzene	105	8.475	8.475	0.000	97	9258039	200.0	187.8	
90 Cyclohexanone	55	8.573	8.573	0.000	95	4227983	6000.0	5875.4	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	95	2498244	200.0	181.5	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	60	973847	200.0	211.8	
92 Bromobenzene	156	8.797	8.797	0.000	96	2679562	200.0	190.0	
94 1,2,3-Trichloropropane	110	8.824	8.824	0.000	86	797176	200.0	176.8	
95 N-Propylbenzene	120	8.866	8.866	0.000	98	2670286	200.0	193.5	
96 2-Chlorotoluene	126	8.964	8.964	0.000	96	2342848	200.0	188.7	
97 1,3,5-Trimethylbenzene	105	9.048	9.048	0.000	96	7832145	200.0	190.9	
98 4-Chlorotoluene	126	9.090	9.090	0.000	97	2505666	200.0	191.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	9.341	9.341	0.000	94	6467433	200.0	178.5	
100 1,2,4-Trimethylbenzene	105	9.411	9.411	0.000	98	8087674	200.0	188.9	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	1935291	200.0	190.1	
102 1,3-Dichlorobenzene	146	9.690	9.690	0.000	98	4828750	200.0	181.5	
103 4-Isopropyltoluene	119	9.704	9.704	0.000	96	8021228	200.0	186.1	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	95	4859545	200.0	175.9	
106 n-Butylbenzene	91	10.109	10.109	0.000	97	7051470	200.0	190.4	
107 1,2-Dichlorobenzene	146	10.137	10.137	0.000	96	4774378	200.0	189.7	
108 1,2-Dibromo-3-Chloropropane	157	10.905	10.905	0.000	84	649784	200.0	212.2	
110 1,2,4-Trichlorobenzene	180	11.729	11.729	0.000	94	3108293	200.0	182.2	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	97	1355428	200.0	181.3	
112 Naphthalene	128	11.995	11.995	0.000	98	7468608	200.0	185.2	
113 1,2,3-Trichlorobenzene	180	12.204	12.204	0.000	95	2540053	200.0	185.7	
S 122 Xylenes, Total	106				0		400.0	390.8	
S 123 1,2-Dichloroethene, Total	1				0		400.0	383.1	
S 124 1,3-Dichloropropene, Total	1				0		400.0	410.6	
S 125 Trihalomethanes, Total	1				0		800.0	839.6	
S 127 Total BTEX	1				0			972.2	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00088

Amount Added: 100.00

Units: uL

MV-Gas B_00141

Amount Added: 40.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000432.D

Injection Date: 01-Aug-2023 07:39:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: IC

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

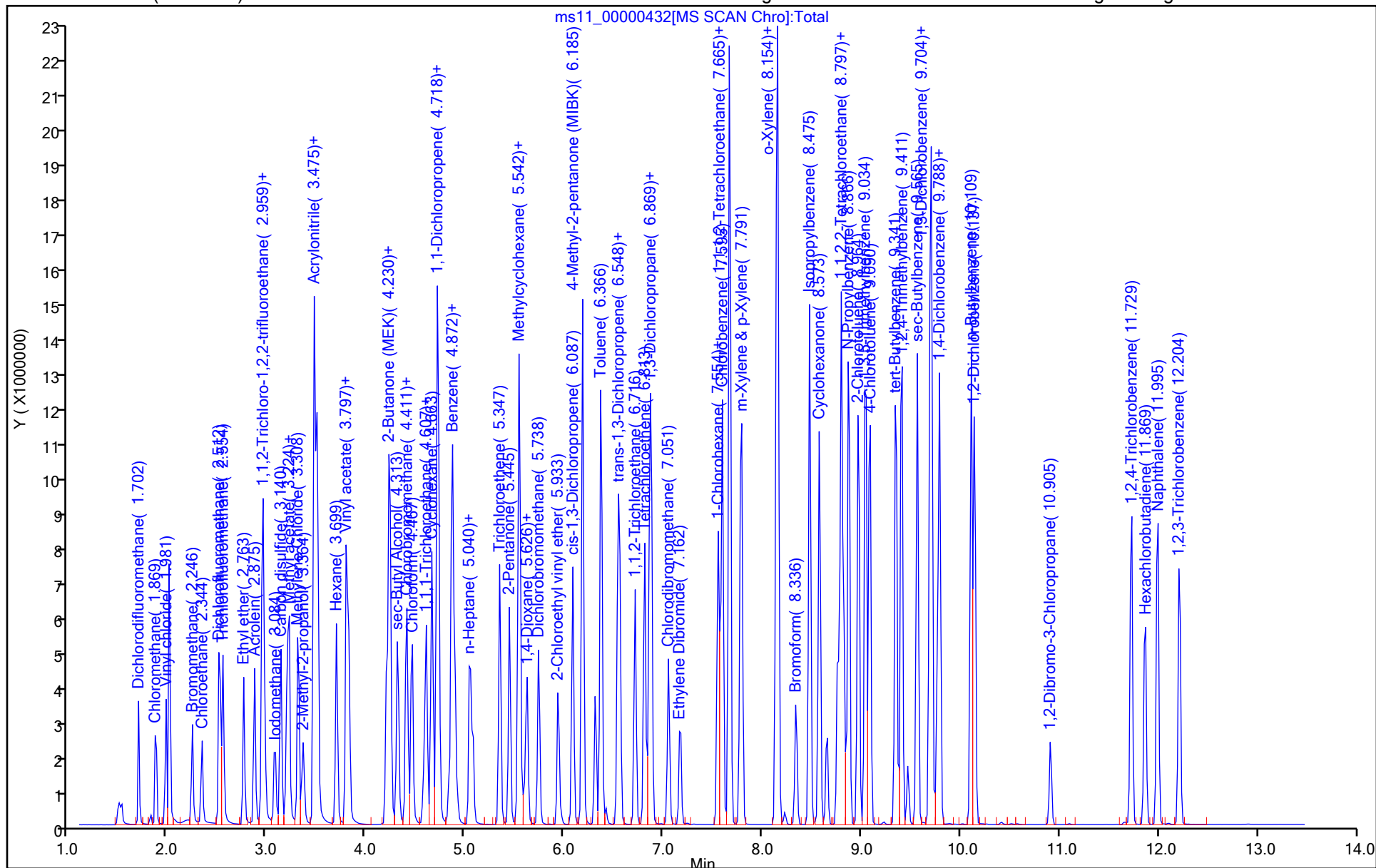
ALS Bottle#: 4

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000433.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 01-Aug-2023 08:00:30 ALS Bottle#: 5 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub1
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 11:35:51 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 10:30:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1985012	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	87	547318	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	998476	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	95	553251	50.0	49.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.830	4.830	0.000	0	761569	50.0	53.3	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	2177308	50.0	49.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.657	0.000	96	858158	50.0	50.0	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	905413	100.0	104.1	
10 Chloromethane	50	1.869	1.869	0.000	99	1333193	100.0	92.5	
11 Vinyl chloride	62	1.981	1.981	0.000	98	1254285	100.0	96.4	
12 Bromomethane	94	2.247	2.247	0.000	92	649782	100.0	104.3	
13 Chloroethane	64	2.344	2.344	0.000	100	829185	100.0	90.6	
14 Dichlorofluoromethane	67	2.526	2.526	0.000	97	2191943	100.0	94.3	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	98	1391165	100.0	94.0	
17 Ethyl ether	59	2.763	2.763	0.000	94	891643	100.0	97.8	
18 Acrolein	56	2.875	2.875	0.000	99	1471754	987.5	954.8	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	65	586954	100.0	99.0	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	96	817890	100.0	95.7	
21 Acetone	43	2.973	2.973	0.000	99	1384615	400.0	403.4	
23 Iodomethane	142	3.085	3.085	0.000	100	1037759	100.0	97.6	
24 Carbon disulfide	76	3.140	3.140	0.000	100	2858971	100.0	102.4	
26 Methyl acetate	43	3.196	3.196	0.000	98	1668983	200.0	187.9	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	89	1728918	100.0	97.0	
28 Methylene Chloride	84	3.322	3.322	0.000	96	1030888	100.0	93.6	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	99	1188445	1000.0	949.3	
30 Acrylonitrile	53	3.476	3.476	0.000	98	4301830	1000.0	959.7	
31 Methyl tert-butyl ether	73	3.504	3.504	0.000	97	3175826	100.0	99.6	
32 trans-1,2-Dichloroethene	96	3.517	3.517	0.000	97	981126	100.0	97.9	
33 Hexane	57	3.699	3.699	0.000	96	1037153	100.0	99.0	
34 Vinyl acetate	43	3.797	3.797	0.000	98	5082044	200.0	221.2	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	96	1880656	100.0	99.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	4.202	4.202	0.000	100	2220474	400.0	382.9	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	85	1111939	100.0	96.3	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	90	1654152	100.0	103.7	
44 sec-Butyl Alcohol	45	4.314	4.314	0.000	99	2491503	2400.0	2371.5	
46 Chlorobromomethane	128	4.411	4.411	0.000	97	518921	100.0	94.0	
47 Tetrahydrofuran	42	4.411	4.411	0.000	89	732594	200.0	198.7	
48 Chloroform	83	4.467	4.467	0.000	95	1775233	100.0	96.6	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	99	1535379	100.0	99.8	
50 Cyclohexane	56	4.663	4.663	0.000	95	1515881	100.0	100.3	
52 Carbon tetrachloride	117	4.719	4.719	0.000	96	1313005	100.0	106.7	
51 1,1-Dichloropropene	75	4.719	4.719	0.000	96	1414881	100.0	97.9	
53 Isobutyl alcohol	43	4.733	4.733	0.000	93	1518278	2500.0	2578.7	
54 Benzene	78	4.872	4.872	0.000	98	4057644	100.0	100.1	
55 1,2-Dichloroethane	62	4.900	4.900	0.000	97	1543159	100.0	96.2	
57 n-Heptane	43	5.054	5.054	0.000	94	934683	100.0	100.0	
59 Trichloroethene	130	5.347	5.347	0.000	97	1074205	100.0	97.0	
60 2-Pentanone	43	5.445	5.445	0.000	98	2835628	320.0	329.1	
61 Methylcyclohexane	55	5.543	5.543	0.000	94	1031025	100.0	97.5	
62 1,2-Dichloropropane	63	5.557	5.557	0.000	92	1131318	100.0	97.3	
64 1,4-Dioxane	88	5.598	5.598	0.000	96	338804	2000.0	1907.3	
65 Dibromomethane	93	5.626	5.626	0.000	92	683023	100.0	96.1	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	1398001	100.0	103.6	
68 2-Chloroethyl vinyl ether	63	5.934	5.934	0.000	93	723064	100.0	94.5	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	93	1738964	100.0	103.6	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	98	4509857	400.0	405.6	
71 Toluene	91	6.367	6.367	0.000	98	4301670	100.0	96.9	
72 trans-1,3-Dichloropropene	75	6.548	6.548	0.000	98	1758585	100.0	103.5	
73 Ethyl methacrylate	69	6.562	6.562	0.000	91	1438316	100.0	100.6	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	93	940725	100.0	98.2	
75 Tetrachloroethene	164	6.814	6.814	0.000	98	874778	100.0	97.5	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	97	1722575	100.0	97.3	
77 2-Hexanone	43	6.883	6.883	0.000	97	3152000	400.0	391.1	
78 Chlorodibromomethane	129	7.051	7.051	0.000	90	1079916	100.0	107.8	
79 Ethylene Dibromide	107	7.177	7.177	0.000	98	978948	100.0	97.5	
80 1-Chlorohexane	91	7.554	7.554	0.000	97	1059381	80.0	80.6	
81 Chlorobenzene	112	7.596	7.596	0.000	93	2885711	100.0	96.0	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	93	1058091	100.0	104.8	
83 Ethylbenzene	106	7.665	7.665	0.000	99	1574455	100.0	98.1	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	3854400	100.0	99.3	
85 o-Xylene	106	8.140	8.140	0.000	96	1898823	100.0	96.5	
86 Styrene	104	8.154	8.154	0.000	93	3350352	100.0	102.6	
87 Bromoform	173	8.336	8.336	0.000	96	771408	100.0	107.7	
88 Isopropylbenzene	105	8.475	8.475	0.000	97	4706163	100.0	97.9	
90 Cyclohexanone	55	8.573	8.573	0.000	95	2060358	3000.0	2881.3	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	95	1303290	100.0	97.0	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	57	477343	100.0	106.4	
92 Bromobenzene	156	8.797	8.797	0.000	96	1348977	100.0	98.0	
94 1,2,3-Trichloropropane	110	8.825	8.825	0.000	86	418508	100.0	95.1	
95 N-Propylbenzene	120	8.867	8.867	0.000	99	1340730	100.0	99.6	
96 2-Chlorotoluene	126	8.964	8.964	0.000	96	1169314	100.0	96.5	
97 1,3,5-Trimethylbenzene	105	9.048	9.048	0.000	96	3975382	100.0	99.3	
98 4-Chlorotoluene	126	9.090	9.090	0.000	97	1234465	100.0	96.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	9.355	9.355	0.000	94	3853325	100.0	109.0	
100 1,2,4-Trimethylbenzene	105	9.411	9.411	0.000	98	4108908	100.0	98.4	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	978749	100.0	98.5	
102 1,3-Dichlorobenzene	146	9.691	9.691	0.000	98	2410472	100.0	92.9	
103 4-Isopropyltoluene	119	9.705	9.705	0.000	97	4104671	100.0	97.6	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	94	2491847	100.0	92.4	
106 n-Butylbenzene	91	10.110	10.110	0.000	98	3570057	100.0	98.8	
107 1,2-Dichlorobenzene	146	10.137	10.137	0.000	97	2292029	100.0	93.3	
108 1,2-Dibromo-3-Chloropropane	157	10.906	10.906	0.000	84	310681	100.0	104.0	
110 1,2,4-Trichlorobenzene	180	11.730	11.730	0.000	94	1619903	100.0	97.2	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	95	719490	100.0	98.5	
112 Naphthalene	128	11.995	11.995	0.000	97	4185921	100.0	106.2	
113 1,2,3-Trichlorobenzene	180	12.218	12.218	0.000	95	1428746	100.0	106.7	
S 122 Xylenes, Total	106				0		200.0	195.8	
S 123 1,2-Dichloroethene, Total	1				0		200.0	194.3	
S 124 1,3-Dichloropropene, Total	1				0		200.0	207.1	
S 125 Trihalomethanes, Total	1				0		400.0	415.8	
S 127 Total BTEX	1				0			491.0	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00088

Amount Added: 50.00

Units: uL

MV-Gas B_00141

Amount Added: 20.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Aug-2023 11:35:52

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000433.D

Injection Date: 01-Aug-2023 08:00:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: IC

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

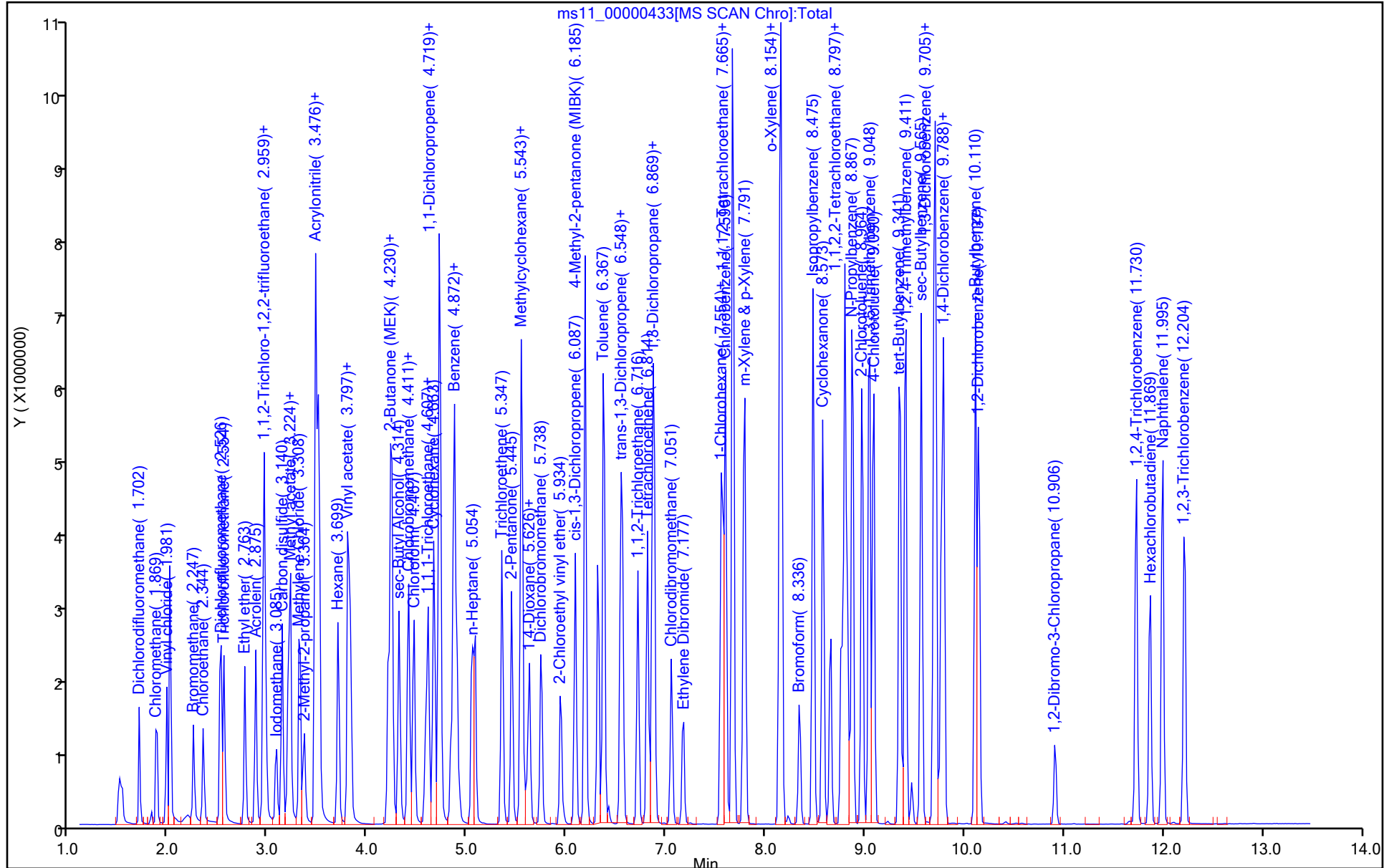
ALS Bottle#: 5

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000434.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 01-Aug-2023 08:22:30 ALS Bottle#: 6 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub1
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 11:35:57 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 10:32:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1975493	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	88	539529	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.774	9.774	0.000	96	966271	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	95	562099	50.0	50.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.844	0.000	0	749011	50.0	52.7	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	2163208	50.0	49.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.657	0.000	96	844792	50.0	50.8	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	641505	75.0	74.1	
10 Chloromethane	50	1.883	1.883	0.000	99	975650	75.0	68.1	
11 Vinyl chloride	62	1.981	1.981	0.000	98	927684	75.0	71.6	
12 Bromomethane	94	2.246	2.246	0.000	92	435493	75.0	70.2	
13 Chloroethane	64	2.344	2.344	0.000	99	615521	75.0	67.5	
14 Dichlorofluoromethane	67	2.526	2.526	0.000	97	1618547	75.0	70.0	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	98	1030513	75.0	70.0	
17 Ethyl ether	59	2.763	2.763	0.000	94	633765	75.0	69.9	
18 Acrolein	56	2.875	2.875	0.000	99	1063574	740.6	693.3	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	64	399859	75.0	67.8	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	96	587772	75.0	69.1	
21 Acetone	43	2.973	2.973	0.000	98	1025531	300.0	297.8	
23 Iodomethane	142	3.084	3.084	0.000	100	736270	75.0	69.7	
24 Carbon disulfide	76	3.140	3.140	0.000	100	2061272	75.0	74.0	
26 Methyl acetate	43	3.196	3.196	0.000	99	1223528	150.0	138.4	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	89	1257505	75.0	70.9	
28 Methylene Chloride	84	3.322	3.322	0.000	96	740261	75.0	67.6	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	99	883843	750.0	709.4	
30 Acrylonitrile	53	3.475	3.475	0.000	98	3143713	750.0	704.7	
31 Methyl tert-butyl ether	73	3.503	3.503	0.000	96	2286492	75.0	72.1	
32 trans-1,2-Dichloroethene	96	3.517	3.517	0.000	97	709377	75.0	71.1	
33 Hexane	57	3.699	3.699	0.000	96	704400	75.0	68.2	
34 Vinyl acetate	43	3.797	3.797	0.000	98	3564057	150.0	155.9	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	97	1374324	75.0	73.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	4.202	4.202	0.000	100	1656970	300.0	285.0	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	85	791826	75.0	68.9	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	93	1144124	75.0	72.1	
44 sec-Butyl Alcohol	45	4.313	4.313	0.000	99	1839201	1800.0	1759.0	
46 Chlorobromomethane	128	4.411	4.411	0.000	97	372203	75.0	67.7	
47 Tetrahydrofuran	42	4.411	4.411	0.000	88	525614	150.0	143.2	
48 Chloroform	83	4.467	4.467	0.000	95	1277122	75.0	69.8	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	98	1110627	75.0	72.5	
50 Cyclohexane	56	4.663	4.663	0.000	95	1065593	75.0	70.9	
52 Carbon tetrachloride	117	4.718	4.718	0.000	95	922866	75.0	75.4	
51 1,1-Dichloropropene	75	4.718	4.718	0.000	96	1006264	75.0	70.0	
53 Isobutyl alcohol	43	4.732	4.732	0.000	93	1135225	1875.0	1937.4	
54 Benzene	78	4.872	4.872	0.000	98	2911308	75.0	72.2	
55 1,2-Dichloroethane	62	4.900	4.900	0.000	97	1103227	75.0	69.1	
57 n-Heptane	43	5.054	5.054	0.000	94	630525	75.0	67.6	
59 Trichloroethene	130	5.347	5.347	0.000	97	770744	75.0	69.9	
60 2-Pentanone	43	5.445	5.445	0.000	98	2066118	240.0	240.5	
61 Methylcyclohexane	55	5.542	5.542	0.000	94	704724	75.0	66.9	
62 1,2-Dichloropropane	63	5.556	5.556	0.000	92	808555	75.0	69.9	
64 1,4-Dioxane	88	5.598	5.598	0.000	94	245874	1500.0	1390.8	
65 Dibromomethane	93	5.626	5.626	0.000	92	485322	75.0	68.6	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	989850	75.0	73.7	
68 2-Chloroethyl vinyl ether	63	5.934	5.934	0.000	93	541393	75.0	71.1	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	93	1231028	75.0	74.4	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	98	3280478	300.0	296.5	
71 Toluene	91	6.366	6.366	0.000	98	3109364	75.0	70.4	
72 trans-1,3-Dichloropropene	75	6.548	6.548	0.000	99	1250881	75.0	73.9	
73 Ethyl methacrylate	69	6.562	6.562	0.000	91	1027136	75.0	72.9	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	93	673758	75.0	70.7	
75 Tetrachloroethene	164	6.813	6.813	0.000	98	628821	75.0	71.1	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	97	1232913	75.0	70.7	
77 2-Hexanone	43	6.883	6.883	0.000	97	2327876	300.0	293.0	
78 Chlorodibromomethane	129	7.051	7.051	0.000	90	764722	75.0	77.4	
79 Ethylene Dibromide	107	7.177	7.177	0.000	99	697186	75.0	70.5	
80 1-Chlorohexane	91	7.554	7.554	0.000	97	755072	60.0	58.2	
81 Chlorobenzene	112	7.596	7.596	0.000	93	2067121	75.0	69.8	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	92	746511	75.0	75.0	
83 Ethylbenzene	106	7.679	7.679	0.000	99	1124003	75.0	71.1	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	2732912	75.0	71.4	
85 o-Xylene	106	8.140	8.140	0.000	96	1353969	75.0	69.8	
86 Styrene	104	8.154	8.154	0.000	94	2370451	75.0	73.6	
87 Bromoform	173	8.336	8.336	0.000	96	540019	75.0	76.5	
88 Isopropylbenzene	105	8.475	8.475	0.000	97	3396175	75.0	73.0	
90 Cyclohexanone	55	8.573	8.573	0.000	95	1565664	2250.0	2221.1	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	95	923142	75.0	71.0	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	59	340822	75.0	78.5	
92 Bromobenzene	156	8.797	8.797	0.000	96	950308	75.0	71.4	
94 1,2,3-Trichloropropane	110	8.825	8.825	0.000	86	292061	75.0	68.6	
95 N-Propylbenzene	120	8.880	8.880	0.000	99	947608	75.0	72.7	
96 2-Chlorotoluene	126	8.964	8.964	0.000	96	838869	75.0	71.6	
97 1,3,5-Trimethylbenzene	105	9.048	9.048	0.000	95	2804659	75.0	72.4	
98 4-Chlorotoluene	126	9.090	9.090	0.000	97	896119	75.0	72.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	9.355	9.355	0.000	94	2364292	75.0	69.1	
100 1,2,4-Trimethylbenzene	105	9.411	9.411	0.000	97	2942867	75.0	72.8	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	685180	75.0	71.3	
102 1,3-Dichlorobenzene	146	9.690	9.690	0.000	98	1741648	75.0	69.3	
103 4-Isopropyltoluene	119	9.704	9.704	0.000	97	2932046	75.0	72.1	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	94	1770163	75.0	67.8	
106 n-Butylbenzene	91	10.109	10.109	0.000	98	2509122	75.0	71.8	
107 1,2-Dichlorobenzene	146	10.151	10.151	0.000	98	1655880	75.0	69.7	
108 1,2-Dibromo-3-Chloropropane	157	10.919	10.919	0.000	89	220053	75.0	76.1	
110 1,2,4-Trichlorobenzene	180	11.730	11.730	0.000	94	1155232	75.0	71.5	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	95	511299	75.0	72.2	
112 Naphthalene	128	11.995	11.995	0.000	97	2997486	75.0	78.4	
113 1,2,3-Trichlorobenzene	180	12.218	12.218	0.000	95	1017029	75.0	78.2	
S 122 Xylenes, Total	106				0		150.0	141.2	
S 123 1,2-Dichloroethene, Total	1				0		150.0	140.1	
S 124 1,3-Dichloropropene, Total	1				0		150.0	148.3	
S 125 Trihalomethanes, Total	1				0		300.0	297.5	
S 127 Total BTEX	1				0			354.9	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00088

Amount Added: 37.50

Units: uL

MV-Gas B_00141

Amount Added: 15.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Aug-2023 11:35:57

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000434.D

Injection Date: 01-Aug-2023 08:22:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: IC

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

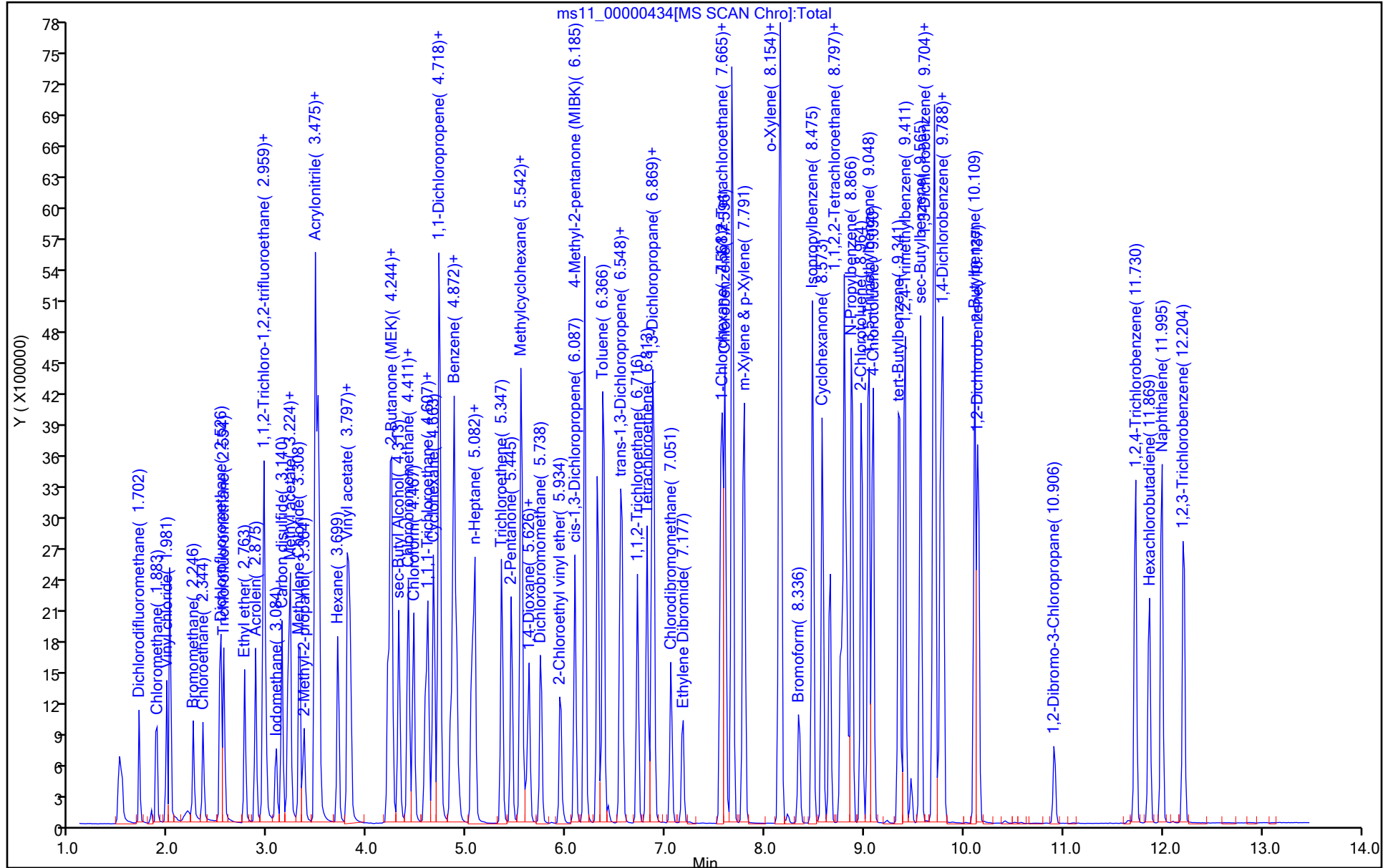
ALS Bottle#: 6

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000435.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 01-Aug-2023 08:43:30 ALS Bottle#: 7 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub1
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 11:36:02 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 10:32:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	99	2001055	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	536814	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.774	9.774	0.000	95	984513	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	95	560098	50.0	50.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.844	0.000	0	733818	50.0	50.9	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	2169196	50.0	50.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.657	0.000	96	851525	50.0	50.3	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	438338	50.0	50.0	
10 Chloromethane	50	1.869	1.869	0.000	99	674211	50.0	46.4	
11 Vinyl chloride	62	1.981	1.981	0.000	98	645573	50.0	49.2	
12 Bromomethane	94	2.247	2.247	0.000	92	287986	50.0	45.8	
13 Chloroethane	64	2.344	2.344	0.000	99	425314	50.0	46.1	
14 Dichlorofluoromethane	67	2.526	2.526	0.000	97	1125848	50.0	48.1	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	98	697060	50.0	46.7	
17 Ethyl ether	59	2.763	2.763	0.000	94	434309	50.0	47.3	
18 Acrolein	56	2.875	2.875	0.000	99	746382	493.8	480.3	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	64	277189	50.0	46.4	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	96	407146	50.0	47.3	
21 Acetone	43	2.973	2.973	0.000	99	704907	200.0	199.0	
23 Iodomethane	142	3.084	3.084	0.000	100	479379	50.0	44.9	
24 Carbon disulfide	76	3.140	3.140	0.000	100	1413140	50.0	49.9	
26 Methyl acetate	43	3.196	3.196	0.000	98	824736	100.0	92.1	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	89	848136	50.0	47.2	
28 Methylene Chloride	84	3.322	3.322	0.000	96	510319	50.0	46.0	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	99	587561	500.0	465.6	
30 Acrylonitrile	53	3.476	3.476	0.000	98	2150575	500.0	475.9	
31 Methyl tert-butyl ether	73	3.503	3.503	0.000	97	1544736	50.0	48.1	
32 trans-1,2-Dichloroethene	96	3.517	3.517	0.000	98	483641	50.0	47.9	
33 Hexane	57	3.699	3.699	0.000	96	485828	50.0	47.3	
34 Vinyl acetate	43	3.797	3.797	0.000	98	2321637	100.0	100.2	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	96	920056	50.0	48.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	4.202	4.202	0.000	100	1139236	200.0	190.8	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	85	538473	50.0	46.3	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	92	784387	50.0	48.8	
44 sec-Butyl Alcohol	45	4.314	4.314	0.000	99	1227942	1200.0	1159.4	
46 Chlorobromomethane	128	4.411	4.411	0.000	97	256697	50.0	46.1	
47 Tetrahydrofuran	42	4.411	4.411	0.000	88	356229	100.0	95.8	
48 Chloroform	83	4.467	4.467	0.000	95	871044	50.0	47.0	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	99	763740	50.0	49.2	
50 Cyclohexane	56	4.663	4.663	0.000	95	737562	50.0	48.4	
52 Carbon tetrachloride	117	4.719	4.719	0.000	94	632210	50.0	51.0	
51 1,1-Dichloropropene	75	4.719	4.719	0.000	96	694388	50.0	47.7	
53 Isobutyl alcohol	43	4.732	4.732	0.000	94	760041	1250.0	1280.6	
54 Benzene	78	4.872	4.872	0.000	98	2000773	50.0	49.0	
55 1,2-Dichloroethane	62	4.900	4.900	0.000	97	750969	50.0	46.4	
57 n-Heptane	43	5.054	5.054	0.000	96	444716	50.0	46.9	
59 Trichloroethene	130	5.347	5.347	0.000	97	531615	50.0	47.6	
60 2-Pentanone	43	5.445	5.445	0.000	98	1392085	160.0	159.4	
61 Methylcyclohexane	55	5.543	5.543	0.000	94	489868	50.0	45.9	
62 1,2-Dichloropropane	63	5.557	5.557	0.000	93	550984	50.0	47.0	
64 1,4-Dioxane	88	5.598	5.598	0.000	96	164918	1000.0	921.0	
65 Dibromomethane	93	5.626	5.626	0.000	92	327722	50.0	45.7	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	666584	50.0	49.0	
68 2-Chloroethyl vinyl ether	63	5.934	5.934	0.000	92	363400	50.0	47.1	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	93	831459	50.0	50.5	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	98	2208470	200.0	197.0	
71 Toluene	91	6.367	6.367	0.000	98	2122478	50.0	47.4	
72 trans-1,3-Dichloropropene	75	6.548	6.548	0.000	99	843909	50.0	49.2	
73 Ethyl methacrylate	69	6.562	6.562	0.000	91	699531	50.0	49.9	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	93	450620	50.0	46.7	
75 Tetrachloroethene	164	6.813	6.813	0.000	98	434109	50.0	49.3	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	97	828537	50.0	47.7	
77 2-Hexanone	43	6.883	6.883	0.000	97	1566247	200.0	198.1	
78 Chlorodibromomethane	129	7.051	7.051	0.000	90	511299	50.0	52.0	
79 Ethylene Dibromide	107	7.177	7.177	0.000	99	474626	50.0	48.2	
80 1-Chlorohexane	91	7.554	7.554	0.000	97	522185	40.0	40.3	
81 Chlorobenzene	112	7.596	7.596	0.000	93	1404323	50.0	47.6	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	93	502488	50.0	50.8	
83 Ethylbenzene	106	7.679	7.679	0.000	99	774993	50.0	49.3	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	1876737	50.0	49.3	
85 o-Xylene	106	8.140	8.140	0.000	98	927756	50.0	48.1	
86 Styrene	104	8.154	8.154	0.000	94	1622765	50.0	50.7	
87 Bromoform	173	8.336	8.336	0.000	96	349304	50.0	49.7	
88 Isopropylbenzene	105	8.475	8.475	0.000	97	2314254	50.0	48.8	
90 Cyclohexanone	55	8.573	8.573	0.000	95	1055594	1500.0	1505.1	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	95	622936	50.0	47.0	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	64	223484	50.0	50.5	
92 Bromobenzene	156	8.797	8.797	0.000	95	650569	50.0	48.0	
94 1,2,3-Trichloropropane	110	8.825	8.825	0.000	86	198843	50.0	45.8	
95 N-Propylbenzene	120	8.880	8.880	0.000	99	649902	50.0	49.0	
96 2-Chlorotoluene	126	8.978	8.978	0.000	97	573936	50.0	48.1	
97 1,3,5-Trimethylbenzene	105	9.048	9.048	0.000	94	1949896	50.0	49.4	
98 4-Chlorotoluene	126	9.090	9.090	0.000	97	614049	50.0	48.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	9.355	9.355	0.000	94	1886221	50.0	54.1	
100 1,2,4-Trimethylbenzene	105	9.411	9.411	0.000	97	2003756	50.0	48.7	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	471800	50.0	48.2	
102 1,3-Dichlorobenzene	146	9.691	9.691	0.000	98	1186169	50.0	46.3	
103 4-Isopropyltoluene	119	9.704	9.704	0.000	97	1981945	50.0	47.8	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	94	1206999	50.0	45.4	
106 n-Butylbenzene	91	10.109	10.109	0.000	98	1722535	50.0	48.4	
107 1,2-Dichlorobenzene	146	10.151	10.151	0.000	98	1121243	50.0	46.3	
108 1,2-Dibromo-3-Chloropropane	157	10.920	10.920	0.000	92	145105	50.0	49.3	
110 1,2,4-Trichlorobenzene	180	11.730	11.730	0.000	94	773416	50.0	46.9	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	94	353258	50.0	48.8	
112 Naphthalene	128	11.995	11.995	0.000	97	2028817	50.0	51.9	
113 1,2,3-Trichlorobenzene	180	12.218	12.218	0.000	95	686052	50.0	51.4	
S 122 Xylenes, Total	106				0		100.0	97.4	
S 123 1,2-Dichloroethene, Total	1				0		100.0	94.2	
S 124 1,3-Dichloropropene, Total	1				0		100.0	99.8	
S 125 Trihalomethanes, Total	1				0		200.0	197.8	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

MV-Gas B_00141

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Aug-2023 11:36:03

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000435.D

Injection Date: 01-Aug-2023 08:43:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: ICIS

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

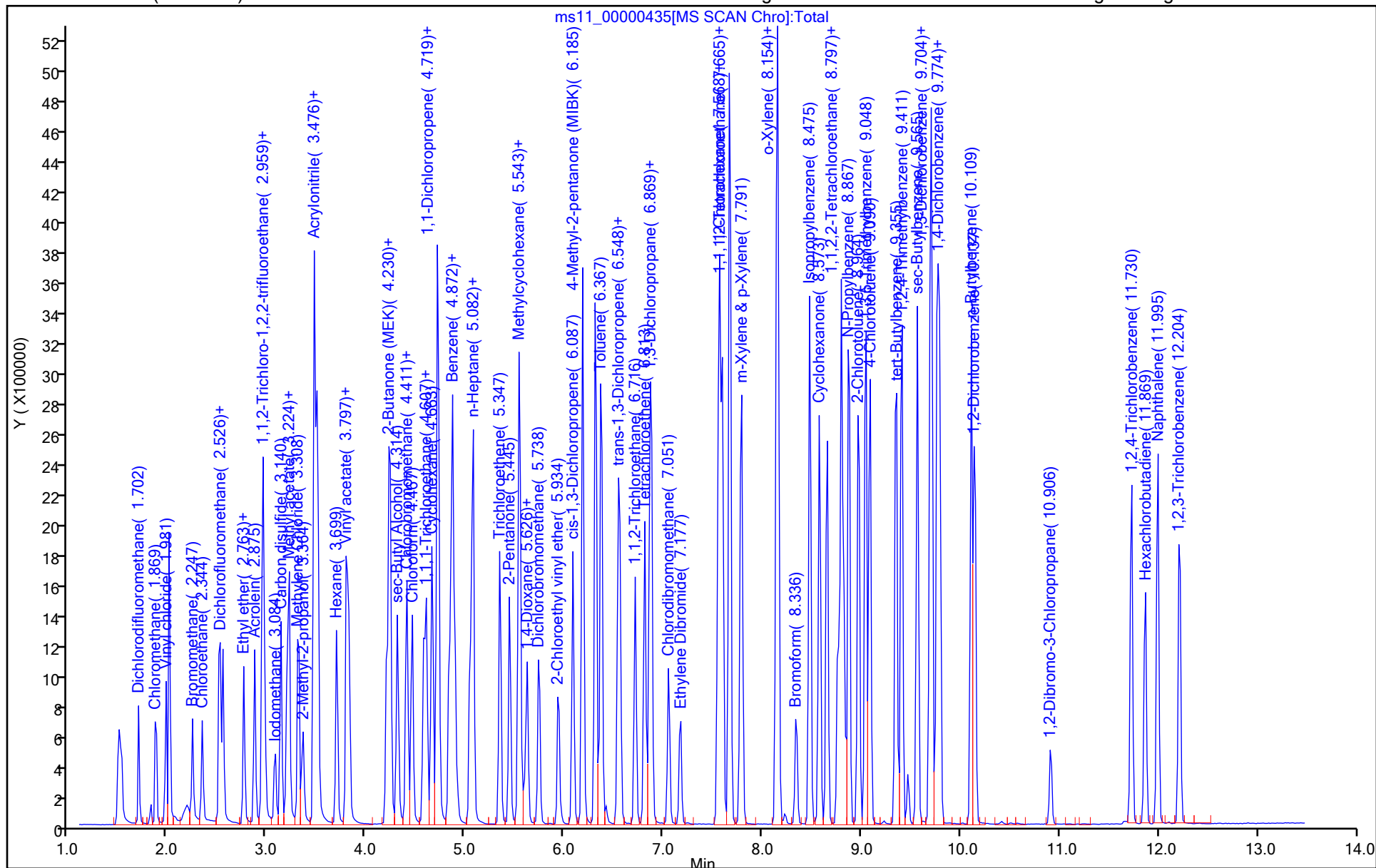
ALS Bottle#: 7

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000436.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 01-Aug-2023 09:05:30 ALS Bottle#: 8 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub1
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 11:36:08 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 10:34:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.081	5.081	0.000	98	1925233	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.567	7.567	0.000	88	520873	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.774	9.774	0.000	95	943188	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	93	533930	50.0	49.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.844	0.000	0	677937	50.0	48.9	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	2117867	50.0	50.4	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.657	0.000	96	803668	50.0	49.5	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	96238	10.0	11.4	
10 Chloromethane	50	1.883	1.883	0.000	99	155729	10.0	11.1	
11 Vinyl chloride	62	1.981	1.981	0.000	98	139555	10.0	11.1	
12 Bromomethane	94	2.246	2.246	0.000	93	56253	10.0	9.31	
13 Chloroethane	64	2.344	2.344	0.000	99	92180	10.0	10.4	
14 Dichlorofluoromethane	67	2.526	2.526	0.000	97	242080	10.0	10.7	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	98	144149	10.0	10.0	
17 Ethyl ether	59	2.763	2.763	0.000	94	91821	10.0	10.4	
18 Acrolein	56	2.875	2.875	0.000	99	160161	98.8	107.1	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	64	60020	10.0	10.4	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	95	86444	10.0	10.4	
21 Acetone	43	2.973	2.973	0.000	98	174291	40.0	43.9	
23 Iodomethane	142	3.084	3.084	0.000	100	74581	10.0	7.57	
24 Carbon disulfide	76	3.140	3.140	0.000	100	310435	10.0	11.0	
26 Methyl acetate	43	3.196	3.196	0.000	99	184833	20.0	21.5	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	89	175869	10.0	10.2	
28 Methylene Chloride	84	3.322	3.322	0.000	96	111033	10.0	10.4	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	99	126967	100.0	104.6	
30 Acrylonitrile	53	3.475	3.475	0.000	98	474078	100.0	109.0	
31 Methyl tert-butyl ether	73	3.503	3.503	0.000	96	327058	10.0	10.6	
32 trans-1,2-Dichloroethene	96	3.517	3.517	0.000	97	101181	10.0	10.4	
33 Hexane	57	3.699	3.699	0.000	96	103222	10.0	10.3	
34 Vinyl acetate	43	3.797	3.797	0.000	97	464162	20.0	20.8	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	97	193620	10.0	10.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	4.202	4.202	0.000	99	287653	40.0	44.1	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	85	116500	10.0	10.4	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	92	157410	10.0	10.2	
44 sec-Butyl Alcohol	45	4.313	4.313	0.000	100	259998	240.0	255.2	
46 Chlorobromomethane	128	4.411	4.411	0.000	97	53972	10.0	10.1	
47 Tetrahydrofuran	42	4.411	4.411	0.000	89	78120	20.0	21.8	
48 Chloroform	83	4.467	4.467	0.000	95	181564	10.0	10.2	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	98	158095	10.0	10.6	
50 Cyclohexane	56	4.663	4.663	0.000	95	154365	10.0	10.5	
52 Carbon tetrachloride	117	4.718	4.718	0.000	93	122674	10.0	10.3	
51 1,1-Dichloropropene	75	4.718	4.718	0.000	95	141819	10.0	10.1	
53 Isobutyl alcohol	43	4.732	4.732	0.000	96	153306	250.0	268.5	
54 Benzene	78	4.872	4.872	0.000	98	418620	10.0	10.6	
55 1,2-Dichloroethane	62	4.900	4.900	0.000	96	160769	10.0	10.3	
57 n-Heptane	43	5.054	5.054	0.000	94	100319	10.0	10.5	
59 Trichloroethene	130	5.347	5.347	0.000	98	112531	10.0	10.5	
60 2-Pentanone	43	5.445	5.445	0.000	98	301194	32.0	34.6	
61 Methylcyclohexane	55	5.542	5.542	0.000	94	103366	10.0	10.1	
62 1,2-Dichloropropane	63	5.556	5.556	0.000	92	116009	10.0	10.3	
64 1,4-Dioxane	88	5.598	5.598	0.000	95	39913	200.0	231.7	
65 Dibromomethane	93	5.626	5.626	0.000	92	70559	10.0	10.2	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	136002	10.0	10.4	
68 2-Chloroethyl vinyl ether	63	5.947	5.947	0.000	93	74144	10.0	10.0	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	93	167062	10.0	10.5	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	99	467664	40.0	43.4	
71 Toluene	91	6.366	6.366	0.000	98	447263	10.0	10.4	
72 trans-1,3-Dichloropropene	75	6.548	6.548	0.000	99	168109	10.0	10.2	
73 Ethyl methacrylate	69	6.562	6.562	0.000	90	142936	10.0	10.5	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	93	96559	10.0	10.4	
75 Tetrachloroethene	164	6.813	6.813	0.000	97	90221	10.0	10.6	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	98	176075	10.0	10.5	
77 2-Hexanone	43	6.883	6.883	0.000	97	335216	40.0	43.7	
78 Chlorodibromomethane	129	7.051	7.051	0.000	89	101307	10.0	10.6	
79 Ethylene Dibromide	107	7.176	7.176	0.000	100	99495	10.0	10.4	
80 1-Chlorohexane	91	7.554	7.554	0.000	96	107437	8.00	8.24	
81 Chlorobenzene	112	7.595	7.595	0.000	97	297886	10.0	10.4	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	92	99933	10.0	10.4	
83 Ethylbenzene	106	7.679	7.679	0.000	99	155018	10.0	10.2	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	384233	10.0	10.4	
85 o-Xylene	106	8.140	8.140	0.000	97	186730	10.0	9.98	
86 Styrene	104	8.154	8.154	0.000	94	324598	10.0	10.4	
87 Bromoform	173	8.336	8.336	0.000	96	66451	10.0	9.75	
88 Isopropylbenzene	105	8.475	8.475	0.000	97	480324	10.0	10.6	
90 Cyclohexanone	55	8.573	8.573	0.000	96	230283	300.0	338.4	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	95	133989	10.0	10.6	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	59	44188	10.0	10.4	
92 Bromobenzene	156	8.797	8.797	0.000	96	134377	10.0	10.3	
94 1,2,3-Trichloropropane	110	8.824	8.824	0.000	86	43339	10.0	10.4	
95 N-Propylbenzene	120	8.880	8.880	0.000	99	129988	10.0	10.2	
96 2-Chlorotoluene	126	8.978	8.978	0.000	97	118567	10.0	10.4	
97 1,3,5-Trimethylbenzene	105	9.048	9.048	0.000	96	394710	10.0	10.4	
98 4-Chlorotoluene	126	9.090	9.090	0.000	98	122973	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	9.355	9.355	0.000	94	340038	10.0	10.2	
100 1,2,4-Trimethylbenzene	105	9.411	9.411	0.000	98	414780	10.0	10.5	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	98872	10.0	10.5	
102 1,3-Dichlorobenzene	146	9.690	9.690	0.000	98	246200	10.0	10.0	
103 4-Isopropyltoluene	119	9.704	9.704	0.000	97	413243	10.0	10.4	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	94	258492	10.0	10.2	
106 n-Butylbenzene	91	10.109	10.109	0.000	98	351611	10.0	10.3	
107 1,2-Dichlorobenzene	146	10.151	10.151	0.000	98	245127	10.0	10.6	
108 1,2-Dibromo-3-Chloropropane	157	10.919	10.919	0.000	89	30712	10.0	10.9	
110 1,2,4-Trichlorobenzene	180	11.729	11.729	0.000	93	185517	10.0	11.5	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	94	85437	10.0	12.0	
112 Naphthalene	128	11.995	11.995	0.000	97	500375	10.0	13.0	
113 1,2,3-Trichlorobenzene	180	12.218	12.218	0.000	95	175108	10.0	12.9	
S 122 Xylenes, Total	106				0		20.0	20.4	
S 123 1,2-Dichloroethene, Total	1				0		20.0	20.8	
S 124 1,3-Dichloropropene, Total	1				0		20.0	20.7	
S 125 Trihalomethanes, Total	1				0		40.0	41.0	
S 127 Total BTEX	1				0			51.6	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00088

Amount Added: 5.00

Units: uL

MV-Gas B_00141

Amount Added: 2.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Aug-2023 11:36:08

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000436.D

Injection Date: 01-Aug-2023 09:05:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: IC

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

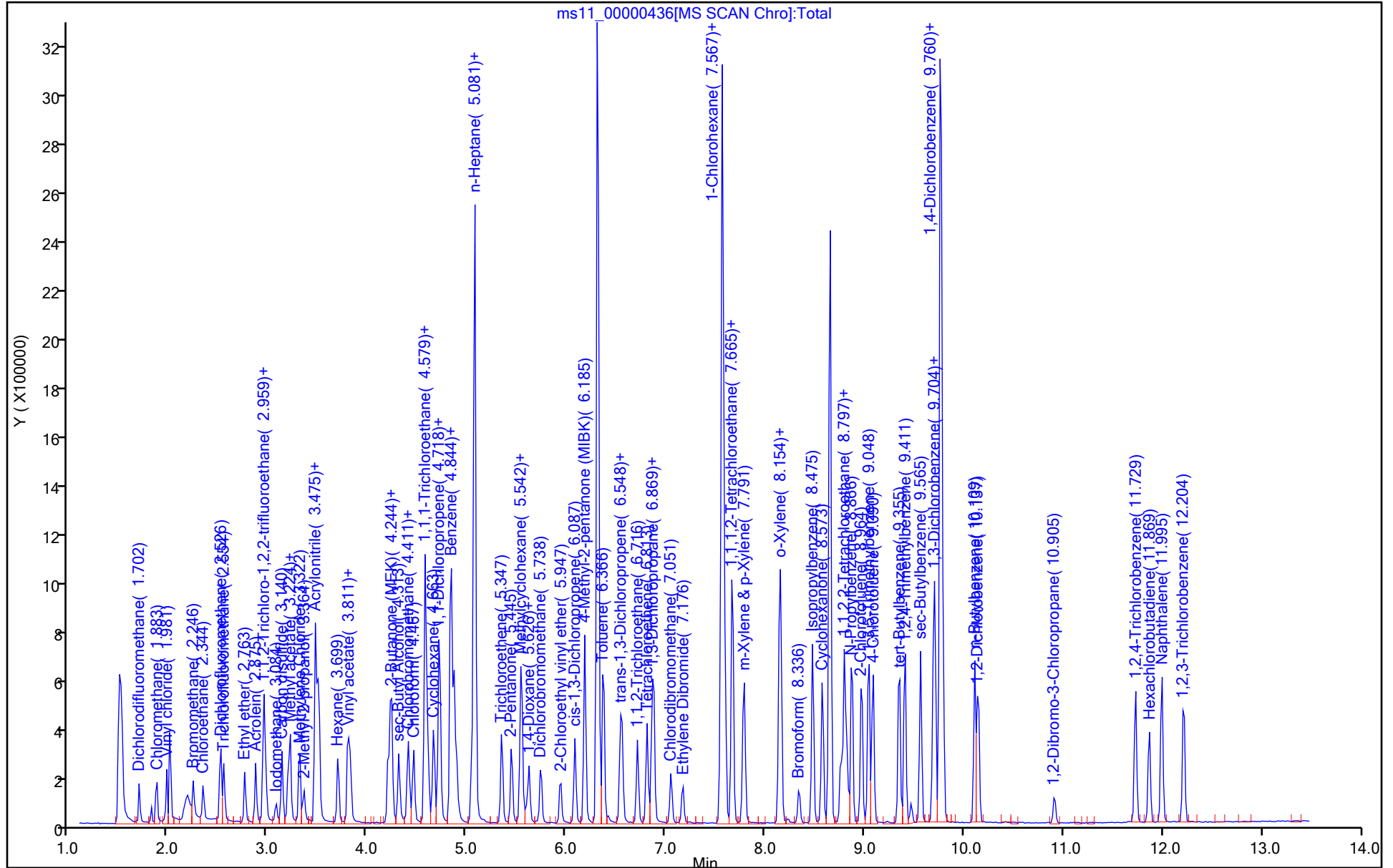
ALS Bottle#: 8

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000437.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 01-Aug-2023 09:26:30 ALS Bottle#: 9 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub1
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 11:36:13 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 10:40:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1896972	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	88	514315	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	932981	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	93	531860	50.0	50.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.830	4.830	0.000	0	671163	50.0	49.1	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	2087898	50.0	50.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.657	0.000	96	802384	50.0	50.0	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	45529	5.00	5.48	
10 Chloromethane	50	1.870	1.870	0.000	99	70863	5.00	5.15	
11 Vinyl chloride	62	1.981	1.981	0.000	98	60008	5.00	4.83	
12 Bromomethane	94	2.247	2.247	0.000	93	28244	5.00	4.74	
13 Chloroethane	64	2.344	2.344	0.000	99	43027	5.00	4.92	
14 Dichlorofluoromethane	67	2.512	2.512	0.000	97	111014	5.00	5.00	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	97	74132	5.00	5.24	
17 Ethyl ether	59	2.763	2.763	0.000	94	43744	5.00	5.02	
18 Acrolein	56	2.875	2.875	0.000	98	72681	49.4	49.3	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	67	28869	5.00	5.09	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	95	38478	5.00	4.71	
21 Acetone	43	2.973	2.973	0.000	99	91815	20.0	19.0	
23 Iodomethane	142	3.085	3.085	0.000	99	32516	5.00	3.56	
24 Carbon disulfide	76	3.141	3.141	0.000	100	138671	5.00	4.66	
26 Methyl acetate	43	3.196	3.196	0.000	99	85584	10.0	10.1	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	89	81426	5.00	4.78	
28 Methylene Chloride	84	3.308	3.308	0.000	96	52317	5.00	4.97	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	99	57889	50.0	48.4	
30 Acrylonitrile	53	3.476	3.476	0.000	98	216246	50.0	50.5	
31 Methyl tert-butyl ether	73	3.504	3.504	0.000	97	144716	5.00	4.75	
32 trans-1,2-Dichloroethene	96	3.518	3.518	0.000	96	44308	5.00	4.63	
33 Hexane	57	3.699	3.699	0.000	95	49804	5.00	5.06	
34 Vinyl acetate	43	3.797	3.797	0.000	98	215791	10.0	9.83	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	97	87046	5.00	4.81	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	4.202	4.202	0.000	99	157294	20.0	20.8	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	85	52149	5.00	4.73	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	90	73028	5.00	4.79	
44 sec-Butyl Alcohol	45	4.314	4.314	0.000	99	118674	120.0	118.2	
46 Chlorobromomethane	128	4.411	4.411	0.000	97	25274	5.00	4.79	
47 Tetrahydrofuran	42	4.411	4.411	0.000	89	35236	10.0	10.0	
48 Chloroform	83	4.467	4.467	0.000	94	83890	5.00	4.78	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	98	70639	5.00	4.80	
50 Cyclohexane	56	4.663	4.663	0.000	95	73302	5.00	5.08	
52 Carbon tetrachloride	117	4.719	4.719	0.000	84	56273	5.00	4.79	
51 1,1-Dichloropropene	75	4.719	4.719	0.000	92	63830	5.00	4.62	
53 Isobutyl alcohol	43	4.733	4.733	0.000	92	67819	125.0	120.5	
54 Benzene	78	4.872	4.872	0.000	98	194623	5.00	5.02	
55 1,2-Dichloroethane	62	4.900	4.900	0.000	95	76049	5.00	4.96	
57 n-Heptane	43	5.054	5.054	0.000	95	53032	5.00	5.38	
59 Trichloroethene	130	5.347	5.347	0.000	96	51947	5.00	4.91	
60 2-Pentanone	43	5.445	5.445	0.000	98	144188	16.0	16.0	
61 Methylcyclohexane	55	5.543	5.543	0.000	93	47988	5.00	4.75	
62 1,2-Dichloropropane	63	5.557	5.557	0.000	91	55450	5.00	4.99	
64 1,4-Dioxane	88	5.599	5.599	0.000	94	16912	100.0	99.6	
65 Dibromomethane	93	5.626	5.626	0.000	92	32420	5.00	4.77	
66 Dichlorobromomethane	83	5.738	5.738	0.000	97	58762	5.00	4.56	
68 2-Chloroethyl vinyl ether	63	5.948	5.948	0.000	93	35637	5.00	4.88	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	93	74332	5.00	4.71	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	99	213098	20.0	20.1	
71 Toluene	91	6.367	6.367	0.000	97	211757	5.00	4.99	
72 trans-1,3-Dichloropropene	75	6.548	6.548	0.000	98	75792	5.00	4.67	
73 Ethyl methacrylate	69	6.562	6.562	0.000	89	63879	5.00	4.76	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	93	44272	5.00	4.84	
75 Tetrachloroethene	164	6.814	6.814	0.000	97	42142	5.00	5.00	
76 1,3-Dichloropropane	76	6.856	6.856	0.000	98	80477	5.00	4.84	
77 2-Hexanone	43	6.883	6.883	0.000	97	147399	20.0	19.5	
78 Chlorodibromomethane	129	7.051	7.051	0.000	91	42650	5.00	4.53	
79 Ethylene Dibromide	107	7.177	7.177	0.000	98	46230	5.00	4.90	
80 1-Chlorohexane	91	7.554	7.554	0.000	94	52721	4.00	3.90	
81 Chlorobenzene	112	7.596	7.596	0.000	93	134697	5.00	4.77	
82 1,1,1,2-Tetrachloroethane	131	7.666	7.666	0.000	90	43692	5.00	4.61	
83 Ethylbenzene	106	7.680	7.680	0.000	98	75620	5.00	5.02	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	183030	5.00	5.02	
85 o-Xylene	106	8.140	8.140	0.000	96	88058	5.00	4.76	
86 Styrene	104	8.154	8.154	0.000	93	147162	5.00	4.80	
87 Bromoform	173	8.336	8.336	0.000	96	30000	5.00	4.46	
88 Isopropylbenzene	105	8.476	8.476	0.000	97	220100	5.00	4.90	
90 Cyclohexanone	55	8.573	8.573	0.000	95	98964	150.0	147.3	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	96	61851	5.00	4.93	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	59	18676	5.00	4.46	
92 Bromobenzene	156	8.797	8.797	0.000	94	64770	5.00	5.04	
94 1,2,3-Trichloropropane	110	8.825	8.825	0.000	86	19659	5.00	4.78	
95 N-Propylbenzene	120	8.881	8.881	0.000	99	60355	5.00	4.80	
96 2-Chlorotoluene	126	8.978	8.978	0.000	97	55869	5.00	4.94	
97 1,3,5-Trimethylbenzene	105	9.048	9.048	0.000	94	184716	5.00	4.94	
98 4-Chlorotoluene	126	9.090	9.090	0.000	98	56609	5.00	4.73	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	9.355	9.355	0.000	93	160345	5.00	4.85	
100 1,2,4-Trimethylbenzene	105	9.411	9.411	0.000	97	189992	5.00	4.87	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	45813	5.00	4.94	
102 1,3-Dichlorobenzene	146	9.691	9.691	0.000	98	113944	5.00	4.70	
103 4-Isopropyltoluene	119	9.705	9.705	0.000	97	185588	5.00	4.72	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	96	121344	5.00	4.82	
106 n-Butylbenzene	91	10.110	10.110	0.000	97	162799	5.00	4.82	
107 1,2-Dichlorobenzene	146	10.152	10.152	0.000	98	113518	5.00	4.95	
108 1,2-Dibromo-3-Chloropropane	157	10.906	10.906	0.000	80	13411	5.00	4.80	
110 1,2,4-Trichlorobenzene	180	11.730	11.730	0.000	94	84871	5.00	5.15	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	95	36091	5.00	4.92	
112 Naphthalene	128	11.995	11.995	0.000	97	224959	5.00	5.59	
113 1,2,3-Trichlorobenzene	180	12.219	12.219	0.000	96	82433	5.00	5.62	
S 122 Xylenes, Total	106				0		10.0	9.78	
S 123 1,2-Dichloroethene, Total	1				0		10.0	9.36	
S 124 1,3-Dichloropropene, Total	1				0		10.0	9.38	
S 125 Trihalomethanes, Total	1				0		20.0	18.3	
S 127 Total BTEX	1				0			24.8	

QC Flag Legend

Processing Flags

Reagents:

Cal Dil Std_00211

Amount Added: 50.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Aug-2023 11:36:13

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000437.D

Injection Date: 01-Aug-2023 09:26:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: IC

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

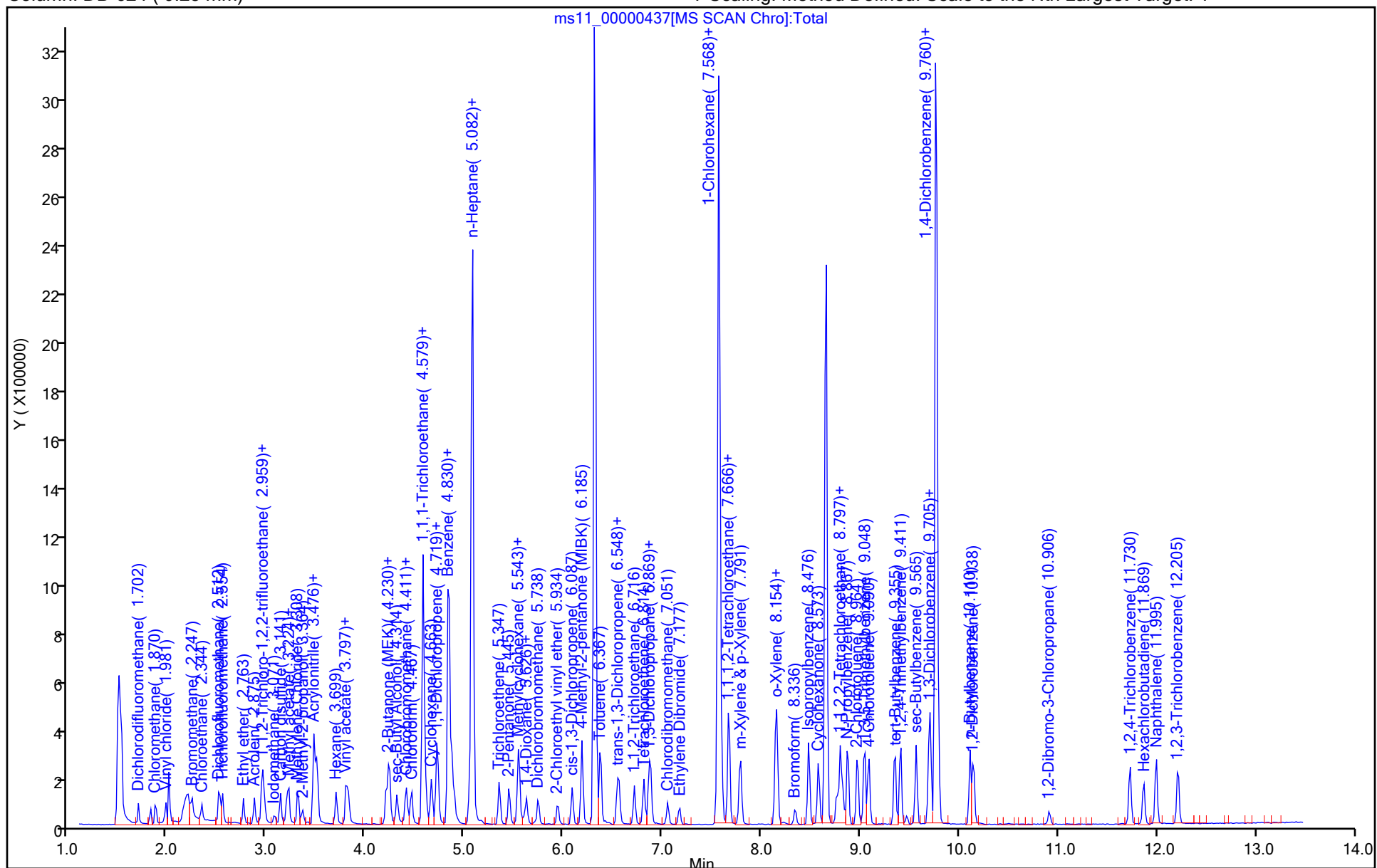
ALS Bottle#: 9

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000438.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 01-Aug-2023 09:47:30 ALS Bottle#: 10 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub1
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 11:36:18 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 10:41:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1932187	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	89	517133	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.774	9.774	0.000	95	938059	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	93	531572	50.0	49.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.844	0.000	0	680355	50.0	48.9	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	2092812	50.0	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.657	0.000	96	803357	50.0	49.8	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	16365	2.00	1.93	
10 Chloromethane	50	1.883	1.883	0.000	98	27780	2.00	1.98	
11 Vinyl chloride	62	1.981	1.981	0.000	98	24623	2.00	1.94	
12 Bromomethane	94	2.247	2.247	0.000	94	13508	2.00	2.23	
13 Chloroethane	64	2.344	2.344	0.000	99	17955	2.00	2.01	
14 Dichlorofluoromethane	67	2.526	2.526	0.000	97	45190	2.00	2.00	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	98	28043	2.00	1.95	
17 Ethyl ether	59	2.763	2.763	0.000	93	17000	2.00	1.92	
18 Acrolein	56	2.875	2.875	0.000	98	32458	19.8	21.6	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	65	11538	2.00	2.00	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	97	16568	2.00	1.99	
21 Acetone	43	2.973	2.973	0.000	98	52032	8.00	6.27	
23 Iodomethane	142	3.085	3.085	0.000	100	13534	2.00	1.68	
24 Carbon disulfide	76	3.140	3.140	0.000	100	61150	2.00	1.70	
26 Methyl acetate	43	3.196	3.196	0.000	99	34678	4.00	4.01	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	88	35128	2.00	2.02	
28 Methylene Chloride	84	3.322	3.322	0.000	97	22577	2.00	2.11	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	100	24281	20.0	19.9	
30 Acrylonitrile	53	3.476	3.476	0.000	97	88645	20.0	20.3	
31 Methyl tert-butyl ether	73	3.504	3.504	0.000	97	58542	2.00	1.89	
32 trans-1,2-Dichloroethene	96	3.518	3.518	0.000	98	18395	2.00	1.89	
33 Hexane	57	3.699	3.699	0.000	93	18380	2.00	1.86	
34 Vinyl acetate	43	3.797	3.797	0.000	97	84532	4.00	3.78	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	96	36736	2.00	1.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	4.202	4.202	0.000	99	95532	8.00	9.11	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	85	23660	2.00	2.11	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	90	28930	2.00	1.86	
44 sec-Butyl Alcohol	45	4.314	4.314	0.000	100	49455	48.0	48.4	
46 Chlorobromomethane	128	4.411	4.411	0.000	97	10871	2.00	2.02	
47 Tetrahydrofuran	42	4.411	4.411	0.000	86	14145	4.00	3.94	
48 Chloroform	83	4.467	4.467	0.000	93	34634	2.00	1.94	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	98	27438	2.00	1.83	
50 Cyclohexane	56	4.663	4.663	0.000	96	27521	2.00	1.87	
52 Carbon tetrachloride	117	4.719	4.719	0.000	94	22949	2.00	1.92	
51 1,1-Dichloropropene	75	4.719	4.719	0.000	95	26391	2.00	1.88	
53 Isobutyl alcohol	43	4.733	4.733	0.000	95	27030	50.0	47.2	
54 Benzene	78	4.872	4.872	0.000	97	80259	2.00	2.03	
55 1,2-Dichloroethane	62	4.900	4.900	0.000	96	32207	2.00	2.06	
57 n-Heptane	43	5.054	5.054	0.000	91	23892	2.00	2.05	
59 Trichloroethene	130	5.347	5.347	0.000	95	21769	2.00	2.02	
60 2-Pentanone	43	5.445	5.445	0.000	98	64082	6.40	6.08	
61 Methylcyclohexane	55	5.543	5.543	0.000	93	19332	2.00	1.88	
62 1,2-Dichloropropane	63	5.557	5.557	0.000	93	23329	2.00	2.06	
64 1,4-Dioxane	88	5.598	5.598	0.000	95	7245	40.0	41.9	
65 Dibromomethane	93	5.626	5.626	0.000	90	13440	2.00	1.94	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	24329	2.00	1.85	
68 2-Chloroethyl vinyl ether	63	5.948	5.948	0.000	92	13495	2.00	1.81	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	92	29600	2.00	1.87	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	99	86086	8.00	7.95	
71 Toluene	91	6.367	6.367	0.000	98	83485	2.00	1.93	
72 trans-1,3-Dichloropropene	75	6.548	6.548	0.000	97	29240	2.00	1.77	
73 Ethyl methacrylate	69	6.562	6.562	0.000	91	25743	2.00	1.91	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	93	18413	2.00	1.97	
75 Tetrachloroethene	164	6.814	6.814	0.000	96	16410	2.00	1.94	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	97	32797	2.00	1.96	
77 2-Hexanone	43	6.883	6.883	0.000	97	58523	8.00	7.68	
78 Chlorodibromomethane	129	7.051	7.051	0.000	91	16824	2.00	1.78	
79 Ethylene Dibromide	107	7.177	7.177	0.000	97	19108	2.00	2.01	
80 1-Chlorohexane	91	7.554	7.554	0.000	90	23643	1.60	1.52	
81 Chlorobenzene	112	7.596	7.596	0.000	95	56459	2.00	1.99	
82 1,1,1,2-Tetrachloroethane	131	7.666	7.666	0.000	88	16964	2.00	1.78	
83 Ethylbenzene	106	7.679	7.679	0.000	99	29423	2.00	1.94	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	75021	2.00	2.04	
85 o-Xylene	106	8.140	8.140	0.000	96	35879	2.00	1.93	
86 Styrene	104	8.154	8.154	0.000	93	59170	2.00	1.92	
87 Bromoform	173	8.336	8.336	0.000	95	12773	2.00	1.89	
88 Isopropylbenzene	105	8.476	8.476	0.000	97	88713	2.00	1.96	
90 Cyclohexanone	55	8.573	8.573	0.000	95	39572	60.0	58.6	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	96	24859	2.00	1.97	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	59	7171	2.00	1.70	
92 Bromobenzene	156	8.797	8.797	0.000	96	25703	2.00	1.99	
94 1,2,3-Trichloropropane	110	8.825	8.825	0.000	88	8288	2.00	2.01	
95 N-Propylbenzene	120	8.881	8.881	0.000	99	24626	2.00	1.95	
96 2-Chlorotoluene	126	8.978	8.978	0.000	96	22748	2.00	2.00	
97 1,3,5-Trimethylbenzene	105	9.048	9.048	0.000	96	71738	2.00	1.91	
98 4-Chlorotoluene	126	9.090	9.090	0.000	98	24456	2.00	2.03	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	9.355	9.355	0.000	94	61238	2.00	1.84	
100 1,2,4-Trimethylbenzene	105	9.411	9.411	0.000	97	76462	2.00	1.95	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	17812	2.00	1.91	
102 1,3-Dichlorobenzene	146	9.691	9.691	0.000	98	48269	2.00	1.98	
103 4-Isopropyltoluene	119	9.705	9.705	0.000	98	77277	2.00	1.96	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	95	50934	2.00	2.01	
106 n-Butylbenzene	91	10.110	10.110	0.000	97	63737	2.00	1.88	
107 1,2-Dichlorobenzene	146	10.151	10.151	0.000	97	48272	2.00	2.09	
108 1,2-Dibromo-3-Chloropropane	157	10.920	10.920	0.000	85	5228	2.00	1.86	
110 1,2,4-Trichlorobenzene	180	11.730	11.730	0.000	93	37934	2.00	2.12	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	96	15981	2.00	1.95	
112 Naphthalene	128	11.995	11.995	0.000	97	98042	2.00	2.11	
113 1,2,3-Trichlorobenzene	180	12.218	12.218	0.000	94	36155	2.00	1.87	
S 122 Xylenes, Total	106				0		4.00	3.98	
S 123 1,2-Dichloroethene, Total	1				0		4.00	3.99	
S 124 1,3-Dichloropropene, Total	1				0		4.00	3.63	
S 125 Trihalomethanes, Total	1				0		8.00	7.45	
S 127 Total BTEX	1				0			9.88	

QC Flag Legend

Processing Flags

Reagents:

Cal Dil Std_00211

Amount Added: 20.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Aug-2023 11:36:18

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000438.D

Injection Date: 01-Aug-2023 09:47:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: IC

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

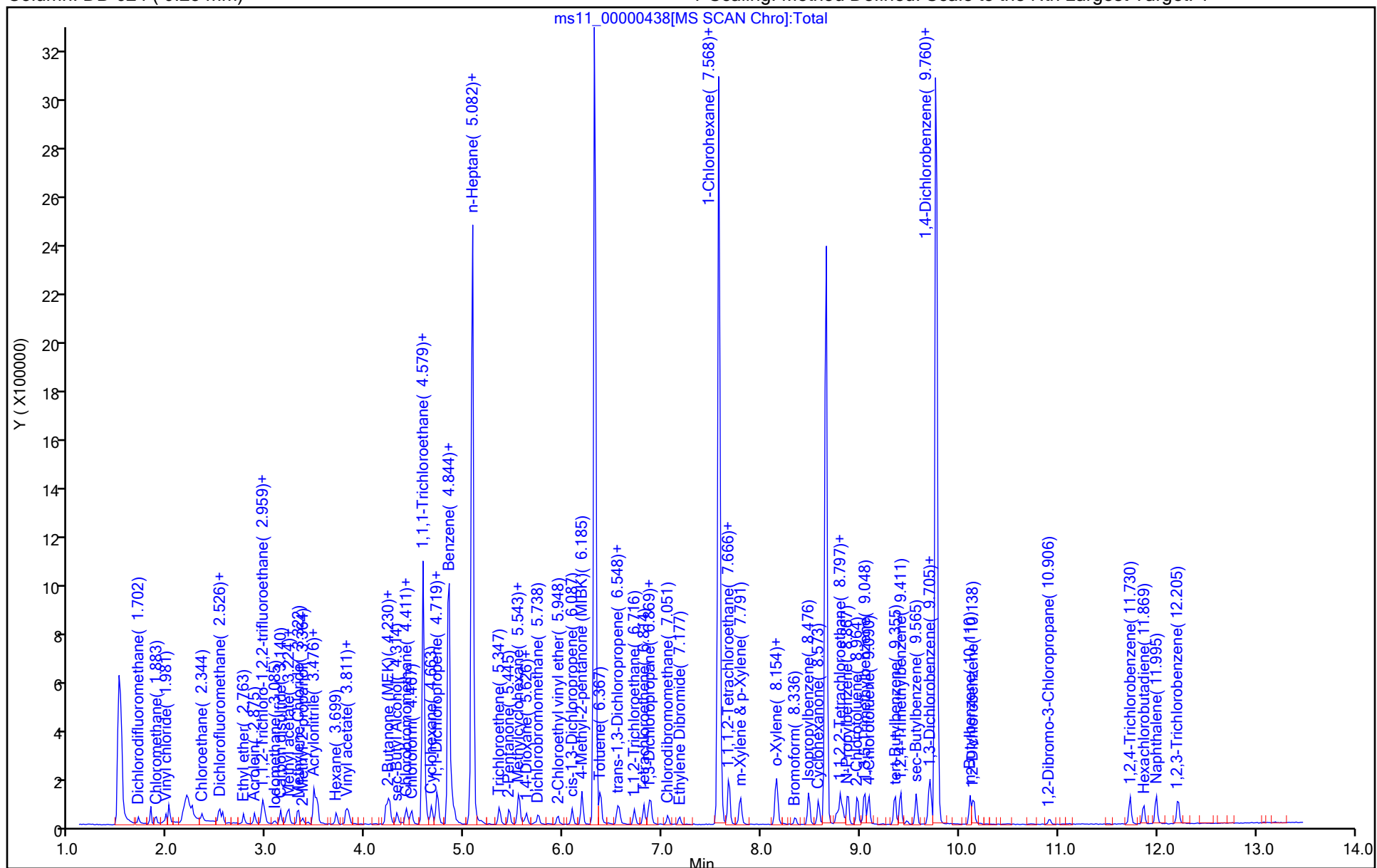
ALS Bottle#: 10

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000439.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 01-Aug-2023 10:09:30 ALS Bottle#: 11 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub1
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 11:36:23 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 11:04:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1846303	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	88	494365	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	896449	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	93	515461	50.0	50.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.844	0.000	0	646493	50.0	48.6	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	2010667	50.0	50.4	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.657	0.000	96	772142	50.0	50.1	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	97	6886	1.00	0.8509	
10 Chloromethane	50	1.883	1.883	0.000	99	13364	1.00	1.00	
11 Vinyl chloride	62	1.981	1.981	0.000	97	12766	1.00	1.05	
12 Bromomethane	94	2.246	2.246	0.000	91	6071	1.00	1.05	
13 Chloroethane	64	2.344	2.344	0.000	97	9195	1.00	1.08	
14 Dichlorofluoromethane	67	2.526	2.526	0.000	97	22908	1.00	1.06	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	96	13269	1.00	0.9643	
17 Ethyl ether	59	2.763	2.763	0.000	94	9258	1.00	1.09	
18 Acrolein	56	2.875	2.875	0.000	97	13898	9.88	9.69	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	64	5390	1.00	0.9773	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	95	8350	1.00	1.05	
21 Acetone	43	2.973	2.973	0.000	98	40967	4.00	3.46	
23 Iodomethane	142	3.084	3.084	0.000	98	7366	1.00	1.11	
24 Carbon disulfide	76	3.140	3.140	0.000	100	35229	1.00	0.8024	
26 Methyl acetate	43	3.196	3.196	0.000	97	17874	2.00	2.16	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	89	20459	1.00	1.23	
28 Methylene Chloride	84	3.322	3.322	0.000	95	12728	1.00	1.24	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	98	12375	10.0	10.6	
30 Acrylonitrile	53	3.475	3.475	0.000	98	43191	10.0	10.4	
31 Methyl tert-butyl ether	73	3.503	3.503	0.000	97	30935	1.00	1.04	
32 trans-1,2-Dichloroethene	96	3.517	3.517	0.000	98	10054	1.00	1.08	
33 Hexane	57	3.699	3.699	0.000	94	10347	1.00	1.09	
34 Vinyl acetate	43	3.811	3.811	0.000	98	38984	2.00	1.82	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	96	17207	1.00	0.9774	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	4.202	4.202	0.000	100	62493	4.00	3.66	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	82	11127	1.00	1.04	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	90	15004	1.00	1.01	
44 sec-Butyl Alcohol	45	4.313	4.313	0.000	99	24257	24.0	24.8	
46 Chlorobromomethane	128	4.411	4.411	0.000	96	5413	1.00	1.05	
47 Tetrahydrofuran	42	4.411	4.411	0.000	87	7143	2.00	2.08	
48 Chloroform	83	4.467	4.467	0.000	93	18808	1.00	1.10	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	98	14343	1.00	1.00	
50 Cyclohexane	56	4.663	4.663	0.000	95	13938	1.00	0.99	
52 Carbon tetrachloride	117	4.718	4.718	0.000	88	10680	1.00	0.9331	
51 1,1-Dichloropropene	75	4.718	4.718	0.000	94	14394	1.00	1.07	
53 Isobutyl alcohol	43	4.732	4.732	0.000	96	13718	25.0	25.1	
54 Benzene	78	4.872	4.872	0.000	96	37000	1.00	0.9813	
55 1,2-Dichloroethane	62	4.900	4.900	0.000	92	17580	1.00	1.18	
57 n-Heptane	43	5.054	5.054	0.000	91	13512	1.00	0.9700	
59 Trichloroethene	130	5.347	5.347	0.000	98	10925	1.00	1.06	
60 2-Pentanone	43	5.445	5.445	0.000	99	34956	3.20	2.78	
61 Methylcyclohexane	55	5.542	5.542	0.000	89	9974	1.00	1.01	
62 1,2-Dichloropropane	63	5.556	5.556	0.000	92	10442	1.00	0.9653	
64 1,4-Dioxane	88	5.598	5.598	0.000	85	3449	20.0	20.9	
65 Dibromomethane	93	5.626	5.626	0.000	92	7333	1.00	1.11	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	12473	1.00	0.99	
68 2-Chloroethyl vinyl ether	63	5.947	5.947	0.000	91	7114	1.00	1.00	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	91	14658	1.00	0.9669	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	99	39829	4.00	3.85	
71 Toluene	91	6.380	6.380	0.000	97	43572	1.00	1.06	
72 trans-1,3-Dichloropropene	75	6.548	6.548	0.000	94	16312	1.00	1.03	
73 Ethyl methacrylate	69	6.562	6.562	0.000	89	12822	1.00	0.99	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	93	9143	1.00	1.03	
75 Tetrachloroethene	164	6.813	6.813	0.000	95	8743	1.00	1.08	
76 1,3-Dichloropropane	76	6.869	6.869	0.000	96	15682	1.00	0.9809	
77 2-Hexanone	43	6.883	6.883	0.000	98	30745	4.00	4.22	
78 Chlorodibromomethane	129	7.051	7.051	0.000	93	8717	1.00	0.9632	
79 Ethylene Dibromide	107	7.177	7.177	0.000	99	9496	1.00	1.05	
80 1-Chlorohexane	91	7.554	7.554	0.000	79	14895	0.8000	0.8684	
81 Chlorobenzene	112	7.596	7.596	0.000	94	30398	1.00	1.12	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	81	9490	1.00	1.04	
83 Ethylbenzene	106	7.679	7.679	0.000	99	14713	1.00	1.02	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	36479	1.00	1.04	
85 o-Xylene	106	8.140	8.140	0.000	97	18585	1.00	1.05	
86 Styrene	104	8.154	8.154	0.000	94	28999	1.00	0.9832	
87 Bromoform	173	8.350	8.350	0.000	95	6190	1.00	0.9570	
88 Isopropylbenzene	105	8.475	8.475	0.000	97	44931	1.00	1.04	
90 Cyclohexanone	55	8.573	8.573	0.000	95	19238	30.0	29.8	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	94	12688	1.00	1.05	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	60	4489	1.00	1.11	
92 Bromobenzene	156	8.797	8.797	0.000	93	13078	1.00	1.06	
94 1,2,3-Trichloropropane	110	8.825	8.825	0.000	83	4086	1.00	1.03	a
95 N-Propylbenzene	120	8.880	8.880	0.000	99	12702	1.00	1.05	
96 2-Chlorotoluene	126	8.978	8.978	0.000	96	11437	1.00	1.05	
97 1,3,5-Trimethylbenzene	105	9.048	9.048	0.000	94	37488	1.00	1.04	
98 4-Chlorotoluene	126	9.090	9.090	0.000	97	11653	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	9.355	9.355	0.000	94	32693	1.00	1.03	
100 1,2,4-Trimethylbenzene	105	9.411	9.411	0.000	97	38779	1.00	1.03	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	9097	1.00	1.02	
102 1,3-Dichlorobenzene	146	9.690	9.690	0.000	97	24914	1.00	1.07	
103 4-Isopropyltoluene	119	9.704	9.704	0.000	96	38938	1.00	1.03	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	92	26964	1.00	1.11	
106 n-Butylbenzene	91	10.109	10.109	0.000	98	34278	1.00	1.06	
107 1,2-Dichlorobenzene	146	10.151	10.151	0.000	96	22792	1.00	1.03	
108 1,2-Dibromo-3-Chloropropane	157	10.919	10.919	0.000	79	2633	1.00	0.9818	
110 1,2,4-Trichlorobenzene	180	11.730	11.730	0.000	94	19854	1.00	1.02	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	94	9147	1.00	1.01	
112 Naphthalene	128	11.995	11.995	0.000	97	50045	1.00	0.8718	
113 1,2,3-Trichlorobenzene	180	12.218	12.218	0.000	96	19242	1.00	0.5828	
S 122 Xylenes, Total	106				0		2.00	2.09	
S 123 1,2-Dichloroethene, Total	1				0		2.00	2.12	
S 124 1,3-Dichloropropene, Total	1				0		2.00	2.00	
S 125 Trihalomethanes, Total	1				0		4.00	4.01	
S 127 Total BTEX	1				0			5.14	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

Cal Dil Std_00211

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Aug-2023 11:36:23

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000439.D

Injection Date: 01-Aug-2023 10:09:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: IC

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

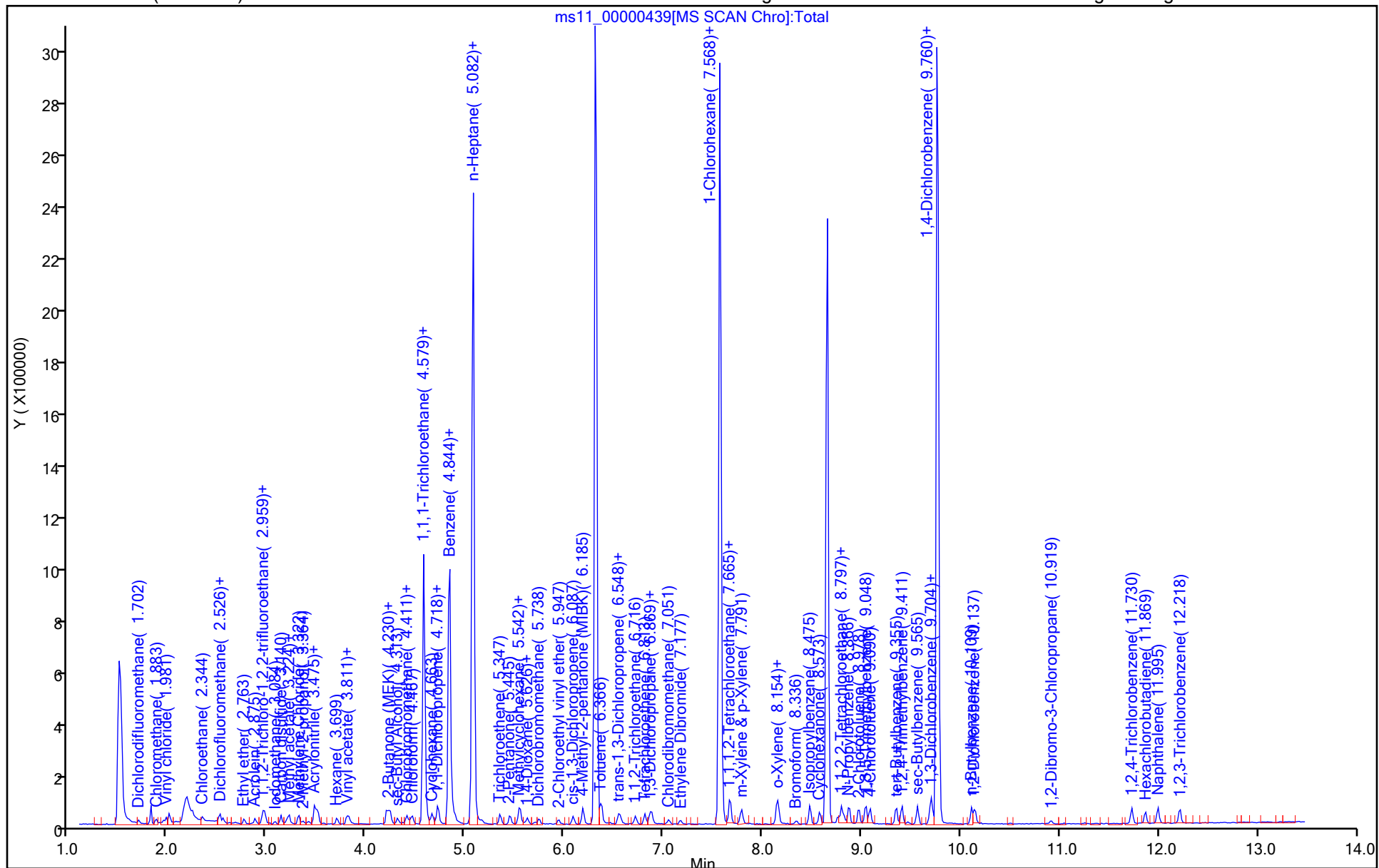
ALS Bottle#: 11

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

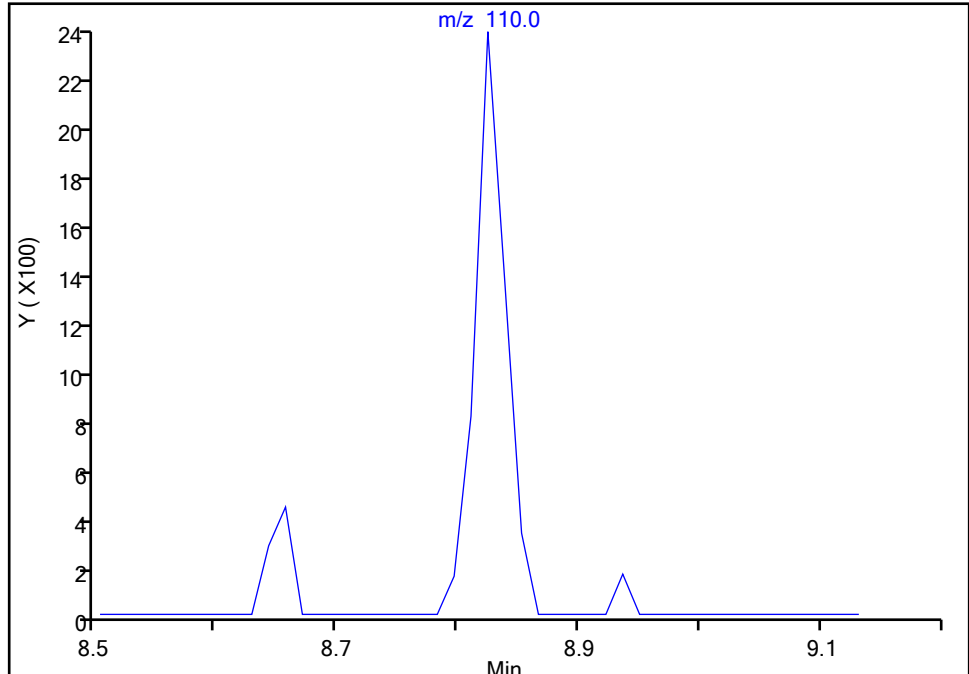
Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000439.D
Injection Date: 01-Aug-2023 10:09:30 Instrument ID: VMS_MS11
Lims ID: IC
Client ID:
Operator ID: MED ALS Bottle#: 11 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

94 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

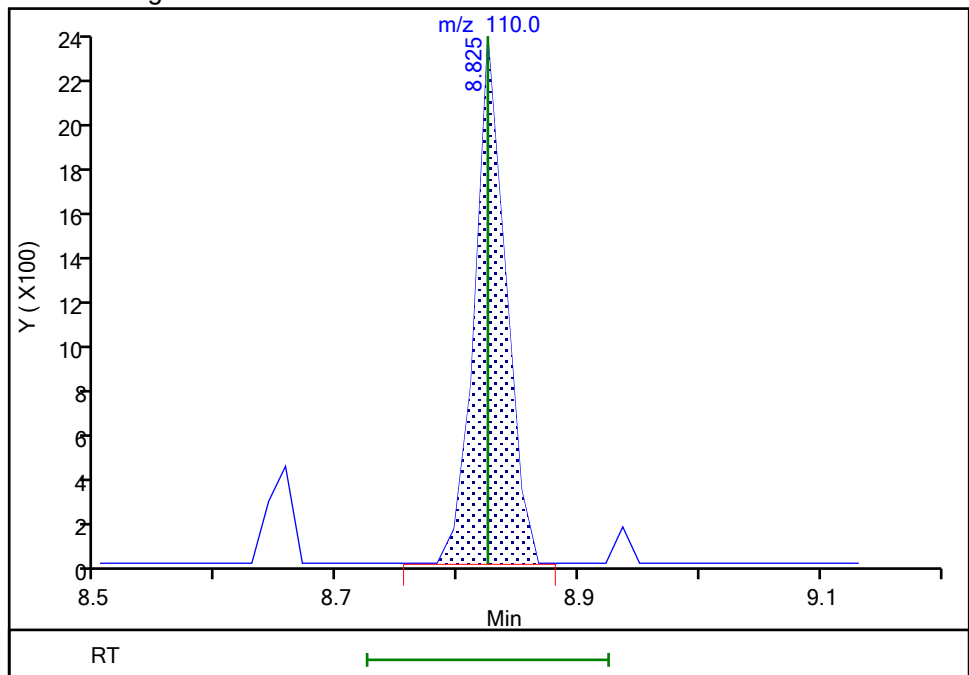
Not Detected
Expected RT: 8.82

Processing Integration Results



RT: 8.82
Area: 4086
Amount: 1.034479
Amount Units: ug/l

Manual Integration Results



Reviewer: BX8N, 01-Aug-2023 10:41:30 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 01-Aug-2023 10:30:30 ALS Bottle#: 12 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub1
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 11:36:28 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 11:11:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1827609	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	88	495453	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	893883	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	93	508251	50.0	49.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.844	0.000	0	642138	50.0	48.8	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	2000580	50.0	50.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.657	0.000	96	774008	50.0	50.3	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	97	3161	0.5000	0.3946	
10 Chloromethane	50	1.869	1.869	0.000	99	8235	0.5000	0.6209	
11 Vinyl chloride	62	1.981	1.981	0.000	97	6240	0.5000	0.5208	
12 Bromomethane	94	2.246	2.246	0.000	71	5059	0.5000	0.8816	
13 Chloroethane	64	2.344	2.344	0.000	94	5385	0.5000	0.6387	
14 Dichlorofluoromethane	67	2.512	2.512	0.000	97	11706	0.5000	0.5471	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	97	7913	0.5000	0.5810	
17 Ethyl ether	59	2.763	2.763	0.000	90	4671	0.5000	0.5565	
18 Acrolein	56	2.875	2.875	0.000	96	6918	4.94	4.87	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	64	3149	0.5000	0.5768	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	94	4675	0.5000	0.5942	
21 Acetone	43	2.973	2.973	0.000	98	37957	2.00	2.62	
23 Iodomethane	142	3.084	3.084	0.000	97	4650	0.5000	0.8462	
24 Carbon disulfide	76	3.140	3.140	0.000	99	31179	0.5000	0.6579	
26 Methyl acetate	43	3.196	3.196	0.000	97	9361	1.00	1.14	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	85	12491	0.5000	0.7612	
28 Methylene Chloride	84	3.308	3.308	0.000	95	9365	0.5000	0.9238	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	98	6805	5.00	5.90	
30 Acrylonitrile	53	3.475	3.475	0.000	97	22148	5.00	5.37	
31 Methyl tert-butyl ether	73	3.503	3.503	0.000	97	16207	0.5000	0.5521	
32 trans-1,2-Dichloroethene	96	3.517	3.517	0.000	97	5333	0.5000	0.5782	
33 Hexane	57	3.699	3.699	0.000	96	5231	0.5000	0.5513	
34 Vinyl acetate	43	3.811	3.811	0.000	96	19941	1.00	0.9426	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	96	9611	0.5000	0.5515	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	4.202	4.202	0.000	100	76245	2.00	6.41	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	84	6217	0.5000	0.5850	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	86	7968	0.5000	0.5426	
44 sec-Butyl Alcohol	45	4.313	4.313	0.000	98	17091	12.0	17.7	
46 Chlorobromomethane	128	4.411	4.411	0.000	95	3225	0.5000	0.6343	
47 Tetrahydrofuran	42	4.411	4.411	0.000	88	5265	1.00	1.55	
48 Chloroform	83	4.467	4.467	0.000	93	9818	0.5000	0.5804	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	97	7907	0.5000	0.5582	
50 Cyclohexane	56	4.663	4.663	0.000	94	7519	0.5000	0.5406	
52 Carbon tetrachloride	117	4.718	4.718	0.000	79	5484	0.5000	0.4840	
51 1,1-Dichloropropene	75	4.718	4.718	0.000	91	8119	0.5000	0.6101	
53 Isobutyl alcohol	43	4.732	4.732	0.000	83	5951	12.5	11.0	
54 Benzene	78	4.872	4.872	0.000	92	18942	0.5000	0.5075	
55 1,2-Dichloroethane	62	4.900	4.900	0.000	94	10597	0.5000	0.7175	
57 n-Heptane	43	5.054	5.054	0.000	69	13396	0.5000	0.9724	
59 Trichloroethene	130	5.347	5.347	0.000	95	5581	0.5000	0.5472	
60 2-Pentanone	43	5.445	5.445	0.000	98	26203	1.60	1.72	
61 Methylcyclohexane	55	5.542	5.542	0.000	87	6375	0.5000	0.6546	
62 1,2-Dichloropropane	63	5.556	5.556	0.000	75	6213	0.5000	0.5802	
64 1,4-Dioxane	88	5.598	5.598	0.000	27	1756	10.0	10.7	a
65 Dibromomethane	93	5.626	5.626	0.000	98	3925	0.5000	0.5996	
66 Dichlorobromomethane	83	5.738	5.738	0.000	95	6759	0.5000	0.5442	
68 2-Chloroethyl vinyl ether	63	5.948	5.948	0.000	94	4637	0.5000	0.6585	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	91	8023	0.5000	0.5281	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	98	20314	2.00	1.98	
71 Toluene	91	6.367	6.367	0.000	98	23325	0.5000	0.5708	
72 trans-1,3-Dichloropropene	75	6.548	6.548	0.000	96	8533	0.5000	0.5452	
73 Ethyl methacrylate	69	6.562	6.562	0.000	94	7036	0.5000	0.5437	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	92	5056	0.5000	0.5733	
75 Tetrachloroethene	164	6.813	6.813	0.000	95	4116	0.5000	0.5070	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	92	9537	0.5000	0.5952	
77 2-Hexanone	43	6.883	6.883	0.000	98	14911	2.00	2.04	
78 Chlorodibromomethane	129	7.051	7.051	0.000	91	4231	0.5000	0.4665	
79 Ethylene Dibromide	107	7.177	7.177	0.000	96	4925	0.5000	0.5420	
80 1-Chlorohexane	91	7.554	7.554	0.000	63	9245	0.4000	0.3883	
81 Chlorobenzene	112	7.596	7.596	0.000	89	15024	0.5000	0.5521	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	86	4424	0.5000	0.4843	
83 Ethylbenzene	106	7.679	7.679	0.000	98	7932	0.5000	0.5462	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	17288	0.5000	0.4918	
85 o-Xylene	106	8.140	8.140	0.000	96	10742	0.5000	0.6034	
86 Styrene	104	8.168	8.168	0.000	93	14840	0.5000	0.5021	
87 Bromoform	173	8.350	8.350	0.000	90	3360	0.5000	0.5183	
88 Isopropylbenzene	105	8.475	8.475	0.000	97	23119	0.5000	0.5370	
90 Cyclohexanone	55	8.573	8.573	0.000	95	9623	15.0	14.9	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	94	6947	0.5000	0.5778	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	59	1843	0.5000	0.4590	
92 Bromobenzene	156	8.797	8.797	0.000	94	6557	0.5000	0.5323	
94 1,2,3-Trichloropropane	110	8.825	8.825	0.000	82	2554	0.5000	0.6485	a
95 N-Propylbenzene	120	8.880	8.880	0.000	99	6517	0.5000	0.5407	
96 2-Chlorotoluene	126	8.978	8.978	0.000	96	5969	0.5000	0.5505	
97 1,3,5-Trimethylbenzene	105	9.048	9.048	0.000	95	19203	0.5000	0.5358	
98 4-Chlorotoluene	126	9.090	9.090	0.000	97	6586	0.5000	0.5747	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	9.355	9.355	0.000	93	16980	0.5000	0.5365	
100 1,2,4-Trimethylbenzene	105	9.411	9.411	0.000	98	20461	0.5000	0.5472	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	5051	0.5000	0.5679	
102 1,3-Dichlorobenzene	146	9.690	9.690	0.000	97	15217	0.5000	0.6549	
103 4-Isopropyltoluene	119	9.704	9.704	0.000	97	22230	0.5000	0.5906	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	87	15516	0.5000	0.6429	
106 n-Butylbenzene	91	10.109	10.109	0.000	98	18511	0.5000	0.5724	
107 1,2-Dichlorobenzene	146	10.151	10.151	0.000	96	12497	0.5000	0.5685	
108 1,2-Dibromo-3-Chloropropane	157	10.919	10.919	0.000	83	1251	0.5000	0.4678	
110 1,2,4-Trichlorobenzene	180	11.730	11.730	0.000	93	11817	0.5000	0.4831	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	92	5747	0.5000	0.4957	
112 Naphthalene	128	11.995	11.995	0.000	97	29618	0.5000	0.2942	
113 1,2,3-Trichlorobenzene	180	12.218	12.218	0.000	95	11743	0.5000	-0.0440	
S 122 Xylenes, Total	106				0		1.00	1.10	
S 123 1,2-Dichloroethene, Total	1				0		1.00	1.16	
S 124 1,3-Dichloropropene, Total	1				0		1.00	1.07	
S 125 Trihalomethanes, Total	1				0		2.00	2.11	
S 127 Total BTEX	1				0			2.72	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

Cal Dil Std_00211

Amount Added: 5.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Aug-2023 11:36:29

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D

Injection Date: 01-Aug-2023 10:30:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: IC

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

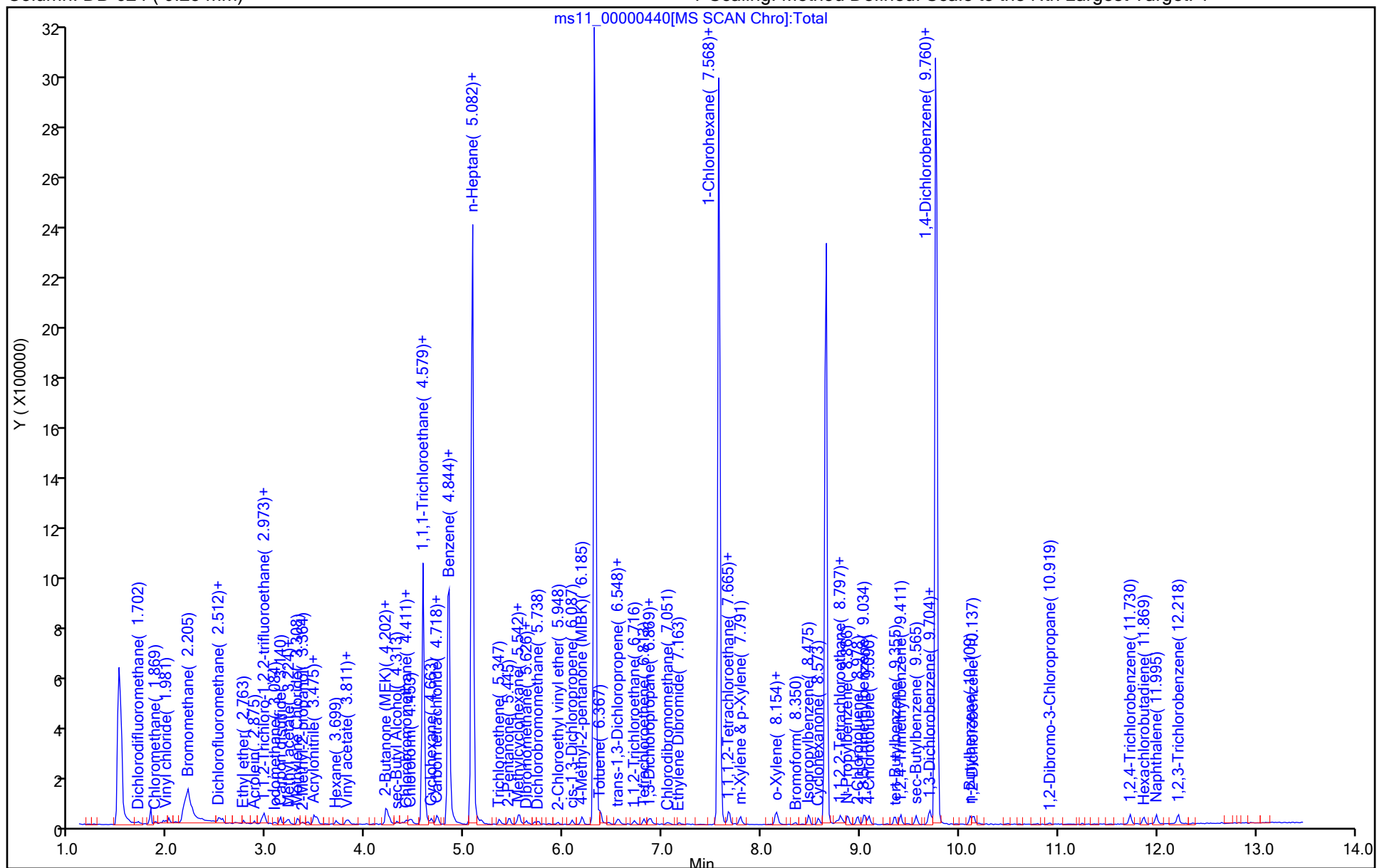
ALS Bottle#: 12

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

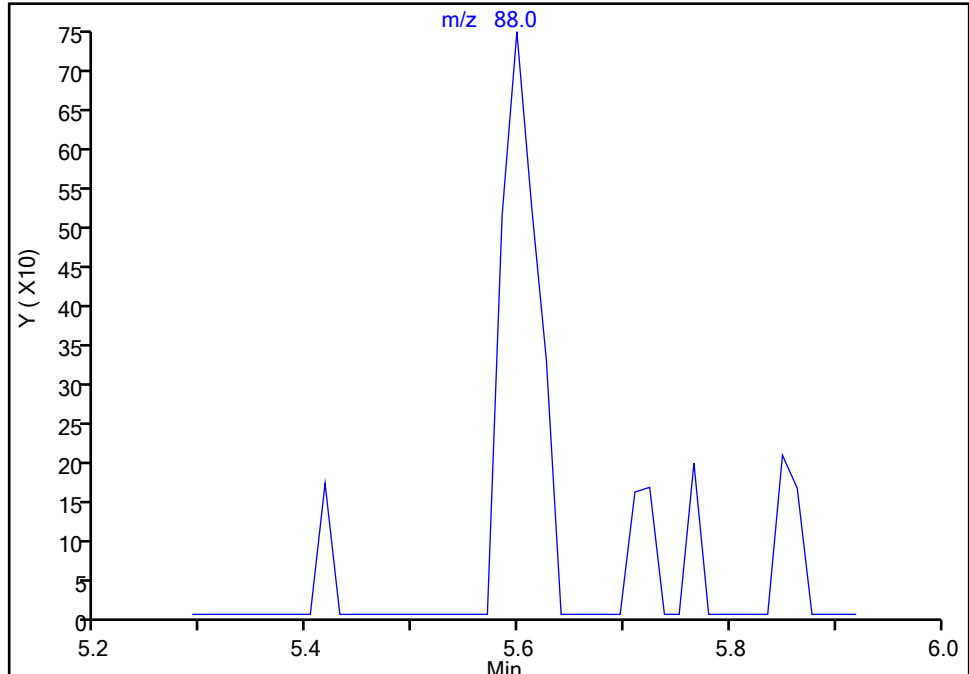
Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Injection Date: 01-Aug-2023 10:30:30 Instrument ID: VMS_MS11
Lims ID: IC
Client ID:
Operator ID: MED ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

64 1,4-Dioxane, CAS: 123-91-1

Signal: 1

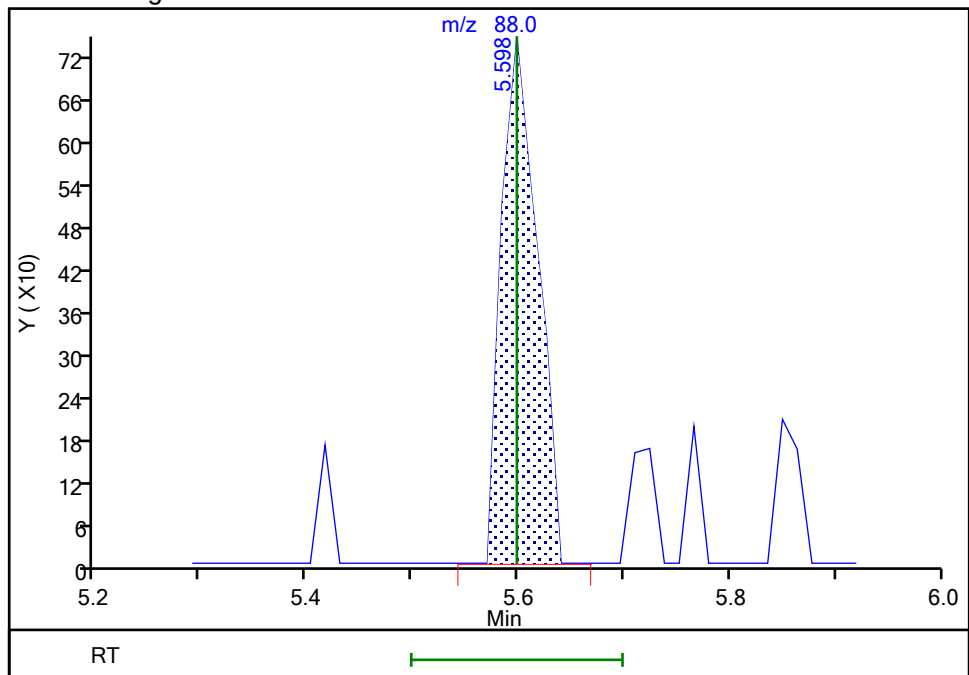
Not Detected
Expected RT: 5.60

Processing Integration Results



RT: 5.60
Area: 1756
Amount: 10.736778
Amount Units: ug/l

Manual Integration Results



Reviewer: BX8N, 01-Aug-2023 11:06:01 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver

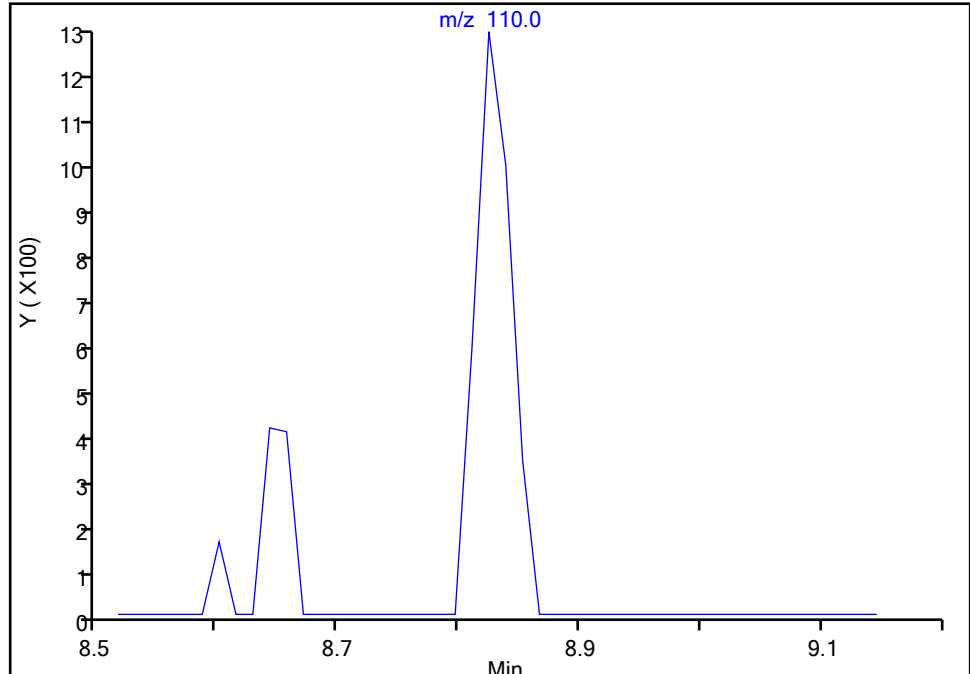
Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Injection Date: 01-Aug-2023 10:30:30 Instrument ID: VMS_MS11
Lims ID: IC
Client ID:
Operator ID: MED ALS Bottle#: 12 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

94 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

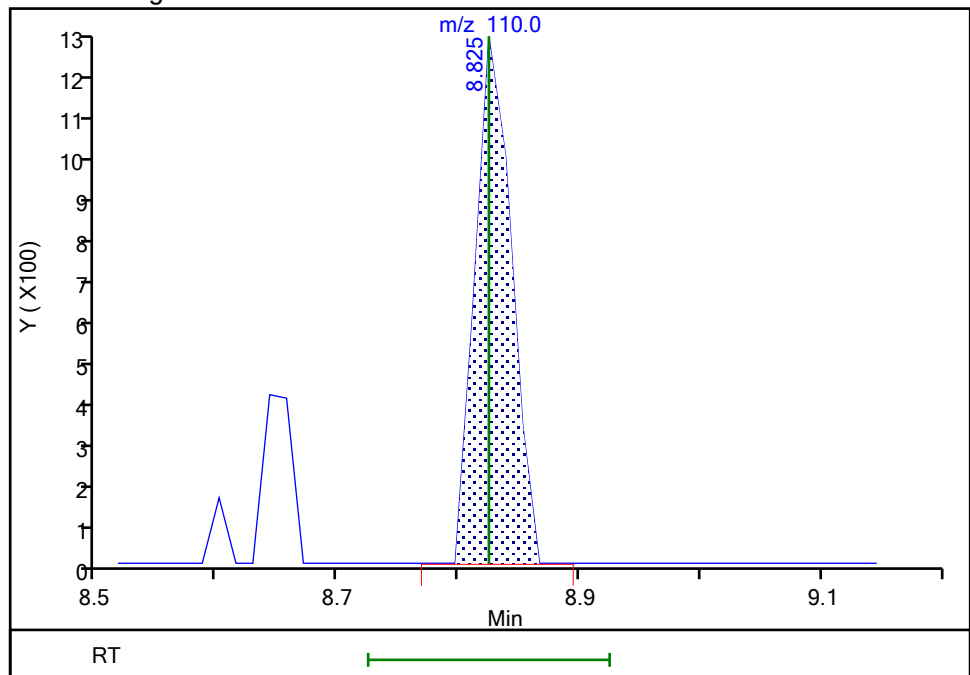
Not Detected
Expected RT: 8.82

Processing Integration Results



RT: 8.82
Area: 2554
Amount: 0.648469
Amount Units: ug/l

Manual Integration Results



Reviewer: BX8N, 01-Aug-2023 11:05:03 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Calibration

/ Dichlorodifluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

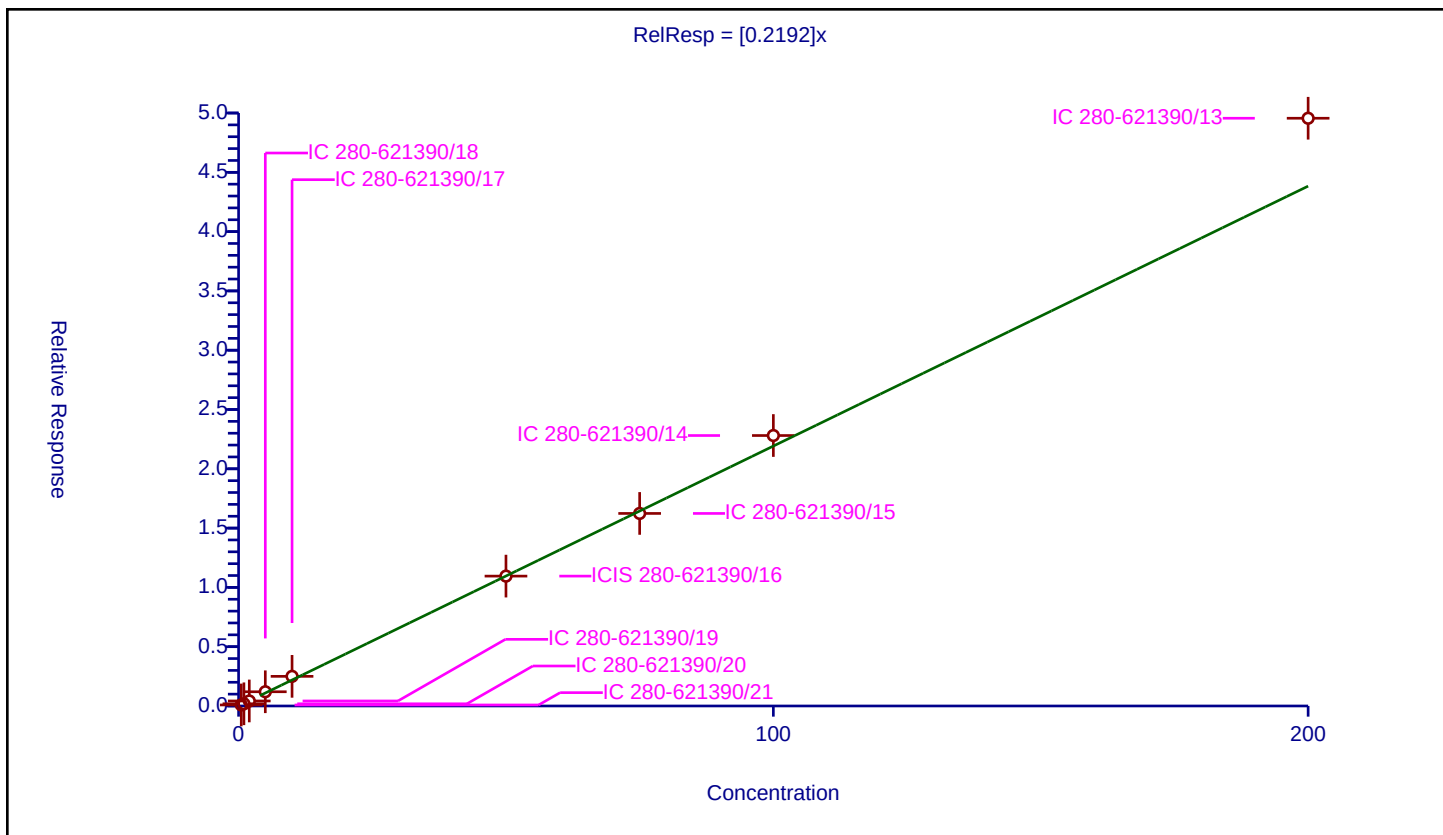
Curve Coefficients

Intercept: 0
Slope: 0.2192

Error Coefficients

Standard Error: 811000
Relative Standard Error: 12.0
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.086479	50.0	1827609.0	0.172958	Y
2	IC 280-621390/20	1.0	0.186481	50.0	1846303.0	0.186481	Y
3	IC 280-621390/19	2.0	0.423484	50.0	1932187.0	0.211742	Y
4	IC 280-621390/18	5.0	1.200044	50.0	1896972.0	0.240009	Y
5	IC 280-621390/17	10.0	2.499386	50.0	1925233.0	0.249939	Y
6	ICIS 280-621390/16	50.0	10.952672	50.0	2001055.0	0.219053	Y
7	IC 280-621390/15	75.0	16.23658	50.0	1975493.0	0.216488	Y
8	IC 280-621390/14	100.0	22.806235	50.0	1985012.0	0.228062	Y
9	IC 280-621390/13	200.0	49.558705	50.0	1973281.0	0.247794	Y



Calibration

/ Chloromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

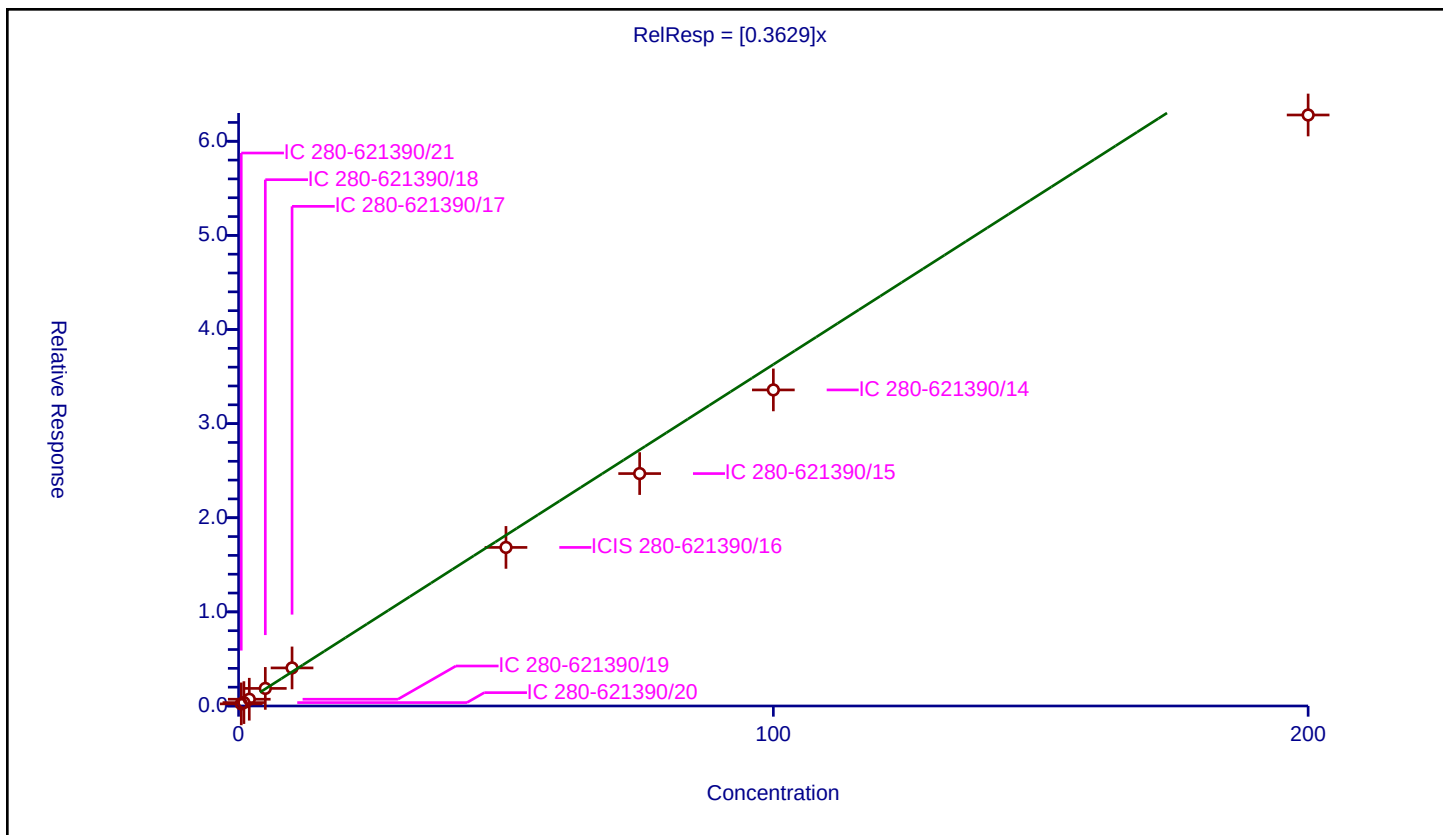
Curve Coefficients

Intercept: 0
 Slope: 0.3629

Error Coefficients

Standard Error: 1080000
 Relative Standard Error: 11.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.225294	50.0	1827609.0	0.450589	Y
2	IC 280-621390/20	1.0	0.361912	50.0	1846303.0	0.361912	Y
3	IC 280-621390/19	2.0	0.718875	50.0	1932187.0	0.359437	Y
4	IC 280-621390/18	5.0	1.867792	50.0	1896972.0	0.373558	Y
5	IC 280-621390/17	10.0	4.04442	50.0	1925233.0	0.404442	Y
6	ICIS 280-621390/16	50.0	16.846389	50.0	2001055.0	0.336928	Y
7	IC 280-621390/15	75.0	24.693836	50.0	1975493.0	0.329251	Y
8	IC 280-621390/14	100.0	33.581485	50.0	1985012.0	0.335815	Y
9	IC 280-621390/13	200.0	62.791311	50.0	1973281.0	0.313957	Y



Calibration

/ Vinyl chloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

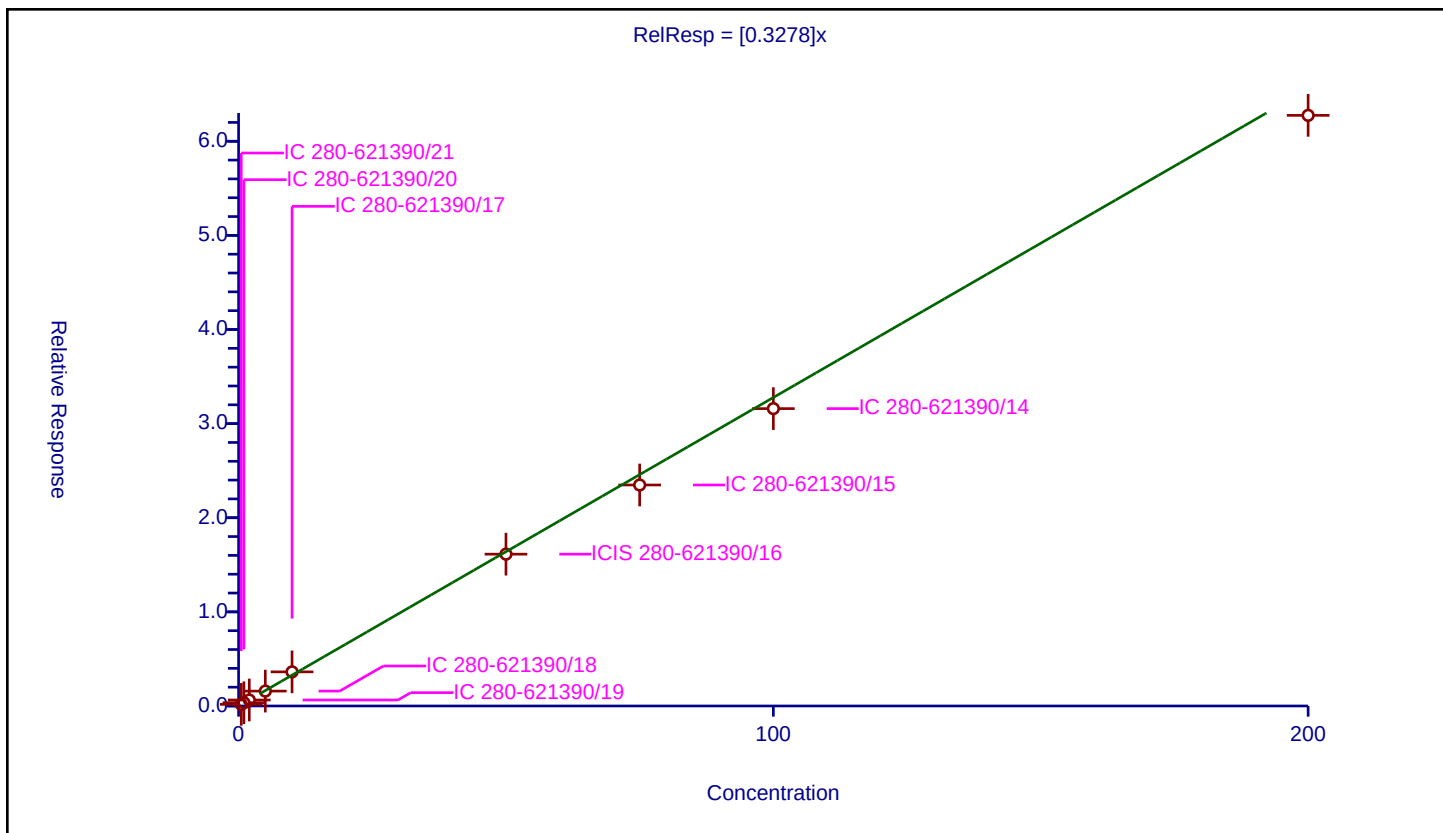
Curve Coefficients

Intercept: 0
Slope: 0.3278

Error Coefficients

Standard Error: 1060000
Relative Standard Error: 5.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.170715	50.0	1827609.0	0.34143	Y
2	IC 280-621390/20	1.0	0.345718	50.0	1846303.0	0.345718	Y
3	IC 280-621390/19	2.0	0.63718	50.0	1932187.0	0.31859	Y
4	IC 280-621390/18	5.0	1.581679	50.0	1896972.0	0.316336	Y
5	IC 280-621390/17	10.0	3.624367	50.0	1925233.0	0.362437	Y
6	ICIS 280-621390/16	50.0	16.130816	50.0	2001055.0	0.322616	Y
7	IC 280-621390/15	75.0	23.47981	50.0	1975493.0	0.313064	Y
8	IC 280-621390/14	100.0	31.59389	50.0	1985012.0	0.315939	Y
9	IC 280-621390/13	200.0	62.749755	50.0	1973281.0	0.313749	Y



Calibration

/ Bromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

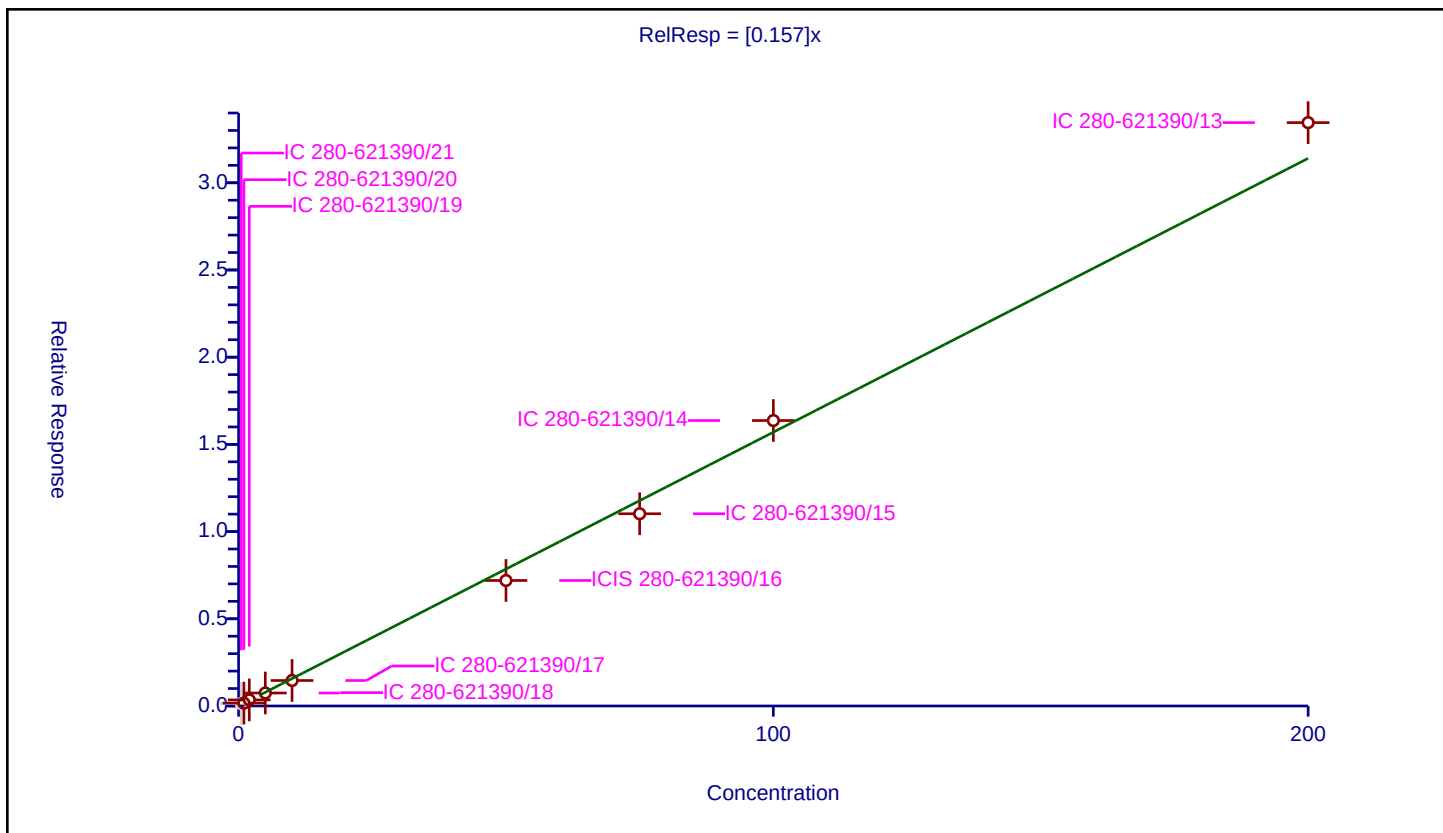
Curve Coefficients

Intercept: 0
Slope: 0.157

Error Coefficients

Standard Error: 591000
Relative Standard Error: 7.5
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.138405	50.0	1827609.0	0.27681	N
2	IC 280-621390/20	1.0	0.16441	50.0	1846303.0	0.16441	Y
3	IC 280-621390/19	2.0	0.349552	50.0	1932187.0	0.174776	Y
4	IC 280-621390/18	5.0	0.74445	50.0	1896972.0	0.14889	Y
5	IC 280-621390/17	10.0	1.46094	50.0	1925233.0	0.146094	Y
6	ICIS 280-621390/16	50.0	7.195854	50.0	2001055.0	0.143917	Y
7	IC 280-621390/15	75.0	11.022388	50.0	1975493.0	0.146965	Y
8	IC 280-621390/14	100.0	16.367206	50.0	1985012.0	0.163672	Y
9	IC 280-621390/13	200.0	33.449671	50.0	1973281.0	0.167248	Y



Calibration

/ Chloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

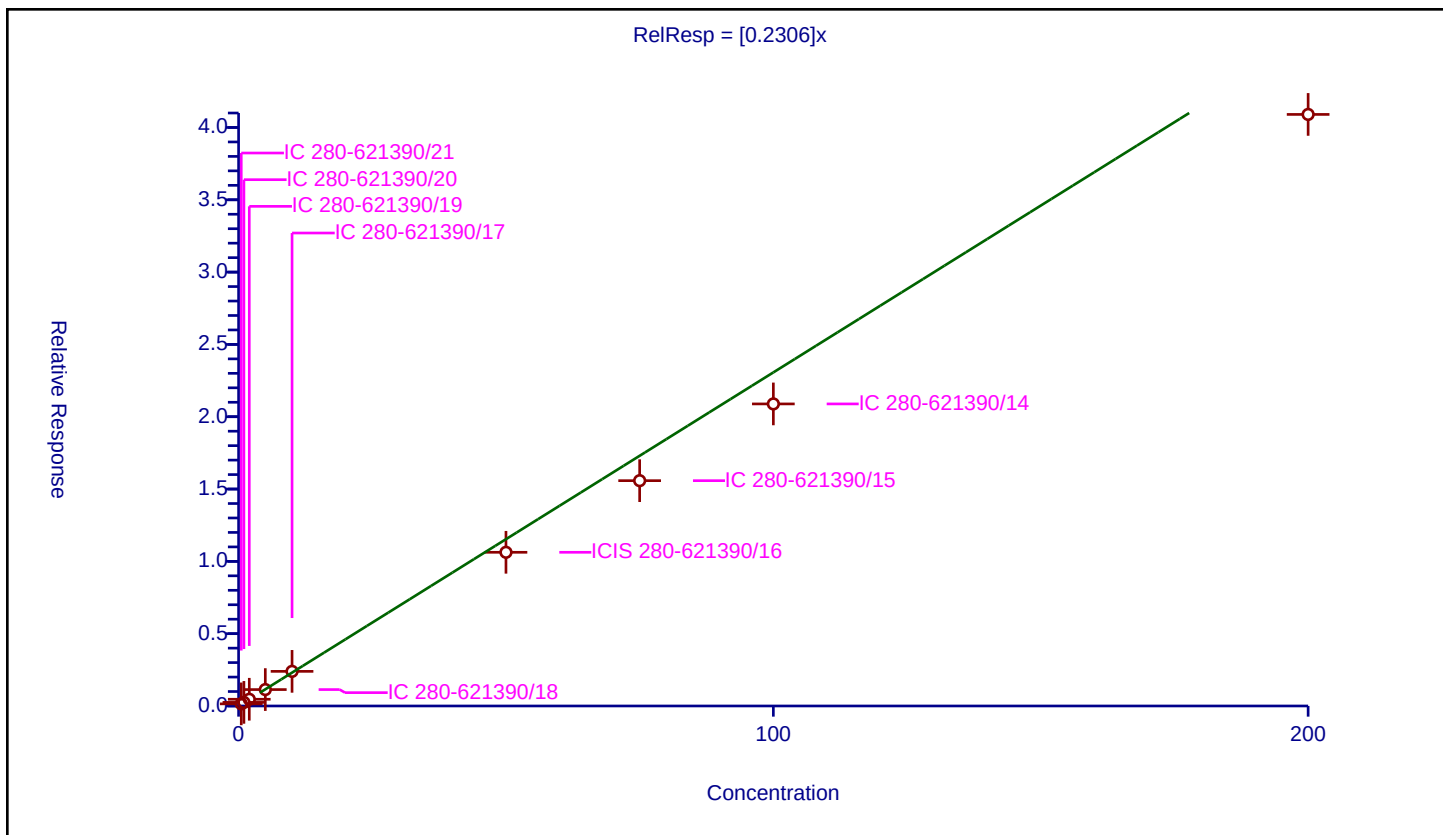
Curve Coefficients

Intercept: 0
 Slope: 0.2306

Error Coefficients

Standard Error: 695000
 Relative Standard Error: 12.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.147324	50.0	1827609.0	0.294647	Y
2	IC 280-621390/20	1.0	0.249011	50.0	1846303.0	0.249011	Y
3	IC 280-621390/19	2.0	0.464629	50.0	1932187.0	0.232314	Y
4	IC 280-621390/18	5.0	1.134097	50.0	1896972.0	0.226819	Y
5	IC 280-621390/17	10.0	2.393996	50.0	1925233.0	0.2394	Y
6	ICIS 280-621390/16	50.0	10.627244	50.0	2001055.0	0.212545	Y
7	IC 280-621390/15	75.0	15.578921	50.0	1975493.0	0.207719	Y
8	IC 280-621390/14	100.0	20.886146	50.0	1985012.0	0.208861	Y
9	IC 280-621390/13	200.0	40.902613	50.0	1973281.0	0.204513	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

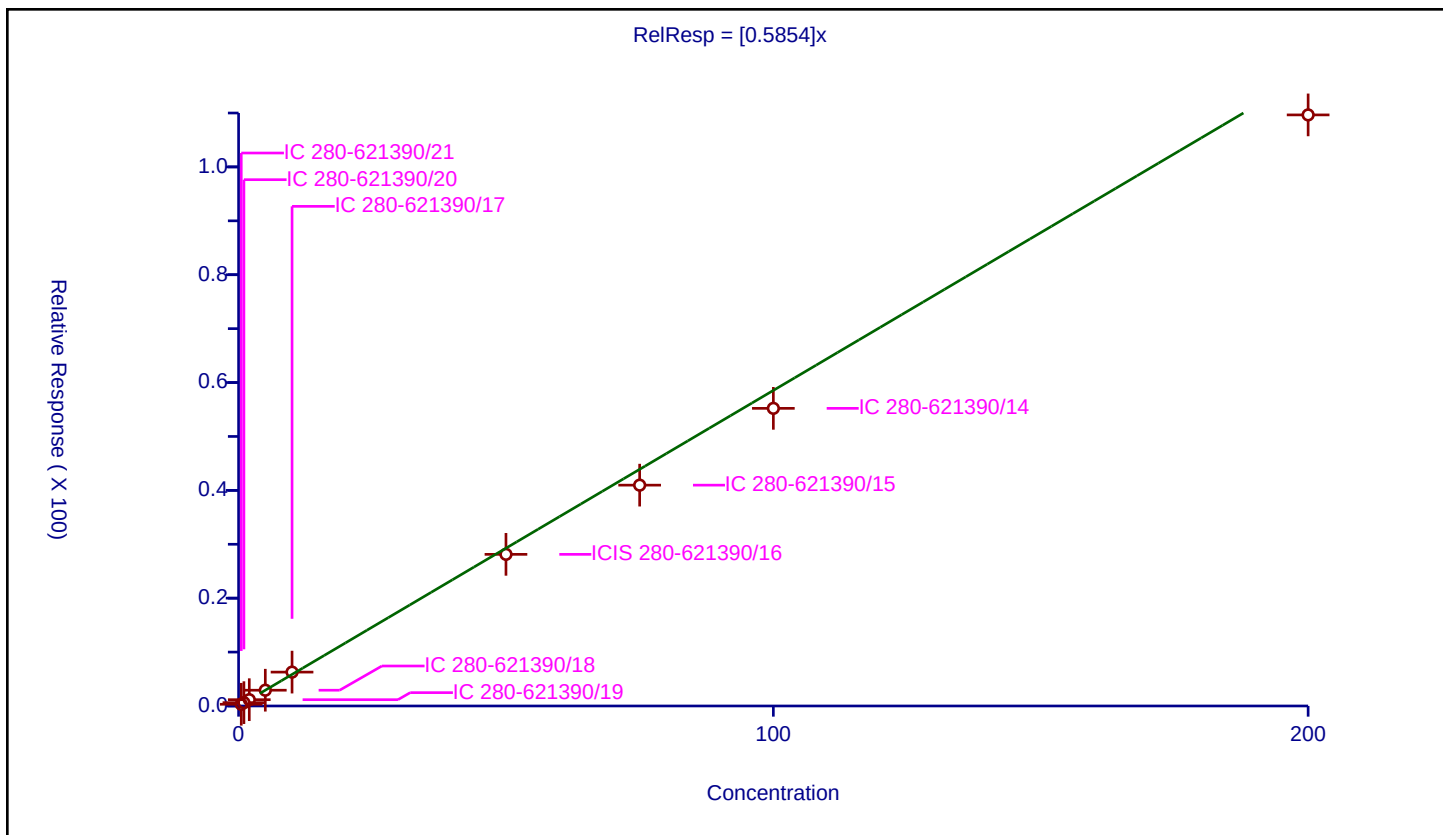
Curve Coefficients

Intercept: 0
 Slope: 0.5854

Error Coefficients

Standard Error: 1850000
 Relative Standard Error: 6.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.320254	50.0	1827609.0	0.640509	Y
2	IC 280-621390/20	1.0	0.620375	50.0	1846303.0	0.620375	Y
3	IC 280-621390/19	2.0	1.1694	50.0	1932187.0	0.5847	Y
4	IC 280-621390/18	5.0	2.926084	50.0	1896972.0	0.585217	Y
5	IC 280-621390/17	10.0	6.287031	50.0	1925233.0	0.628703	Y
6	ICIS 280-621390/16	50.0	28.131361	50.0	2001055.0	0.562627	Y
7	IC 280-621390/15	75.0	40.965648	50.0	1975493.0	0.546209	Y
8	IC 280-621390/14	100.0	55.212336	50.0	1985012.0	0.552123	Y
9	IC 280-621390/13	200.0	109.650247	50.0	1973281.0	0.548251	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

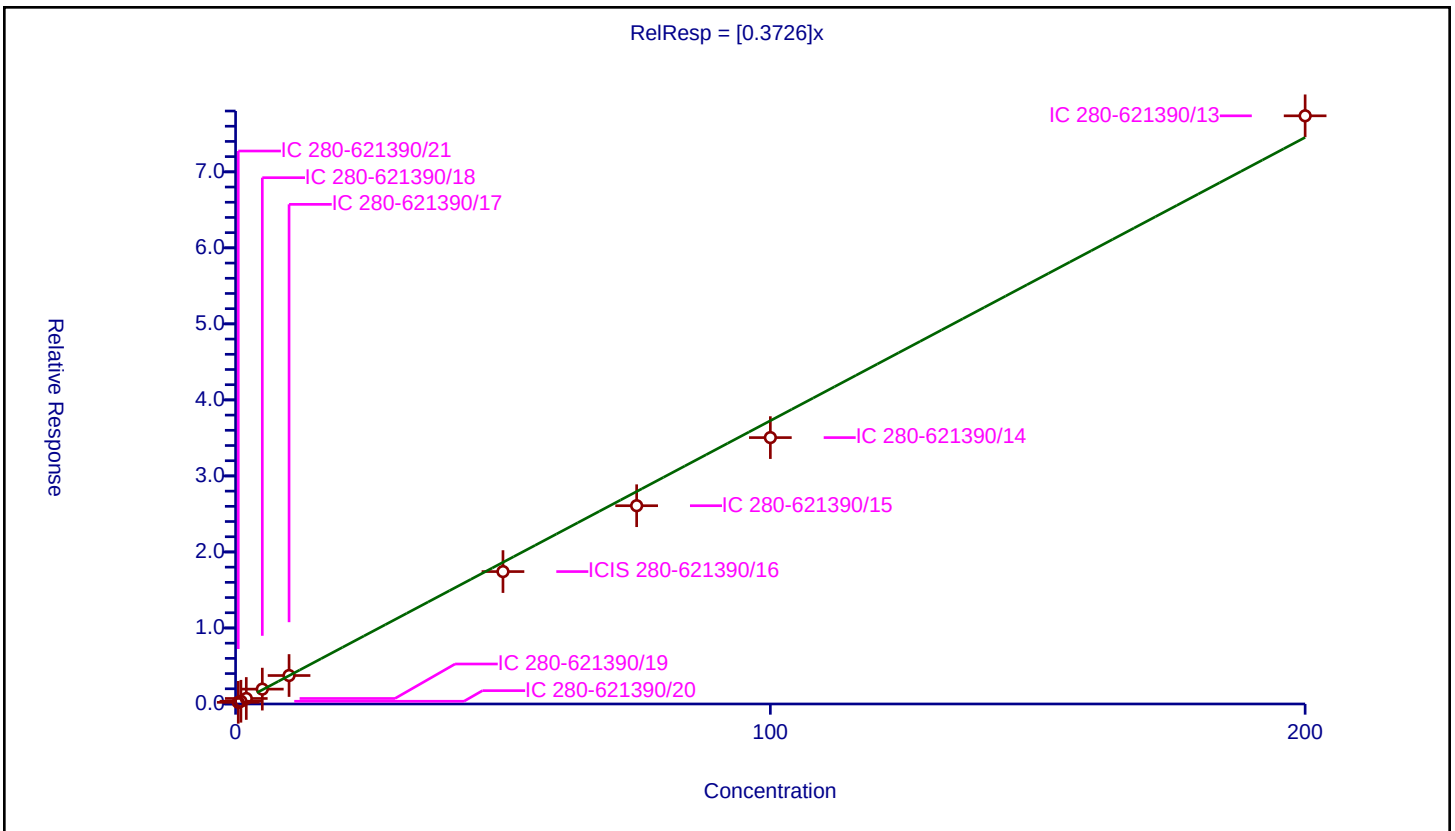
Curve Coefficients

Intercept: 0
 Slope: 0.3726

Error Coefficients

Standard Error: 1270000
 Relative Standard Error: 7.4
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.216485	50.0	1827609.0	0.43297	Y
2	IC 280-621390/20	1.0	0.35934	50.0	1846303.0	0.35934	Y
3	IC 280-621390/19	2.0	0.72568	50.0	1932187.0	0.36284	Y
4	IC 280-621390/18	5.0	1.953956	50.0	1896972.0	0.390791	Y
5	IC 280-621390/17	10.0	3.743677	50.0	1925233.0	0.374368	Y
6	ICIS 280-621390/16	50.0	17.417312	50.0	2001055.0	0.348346	Y
7	IC 280-621390/15	75.0	26.082426	50.0	1975493.0	0.347766	Y
8	IC 280-621390/14	100.0	35.041728	50.0	1985012.0	0.350417	Y
9	IC 280-621390/13	200.0	77.369493	50.0	1973281.0	0.386847	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

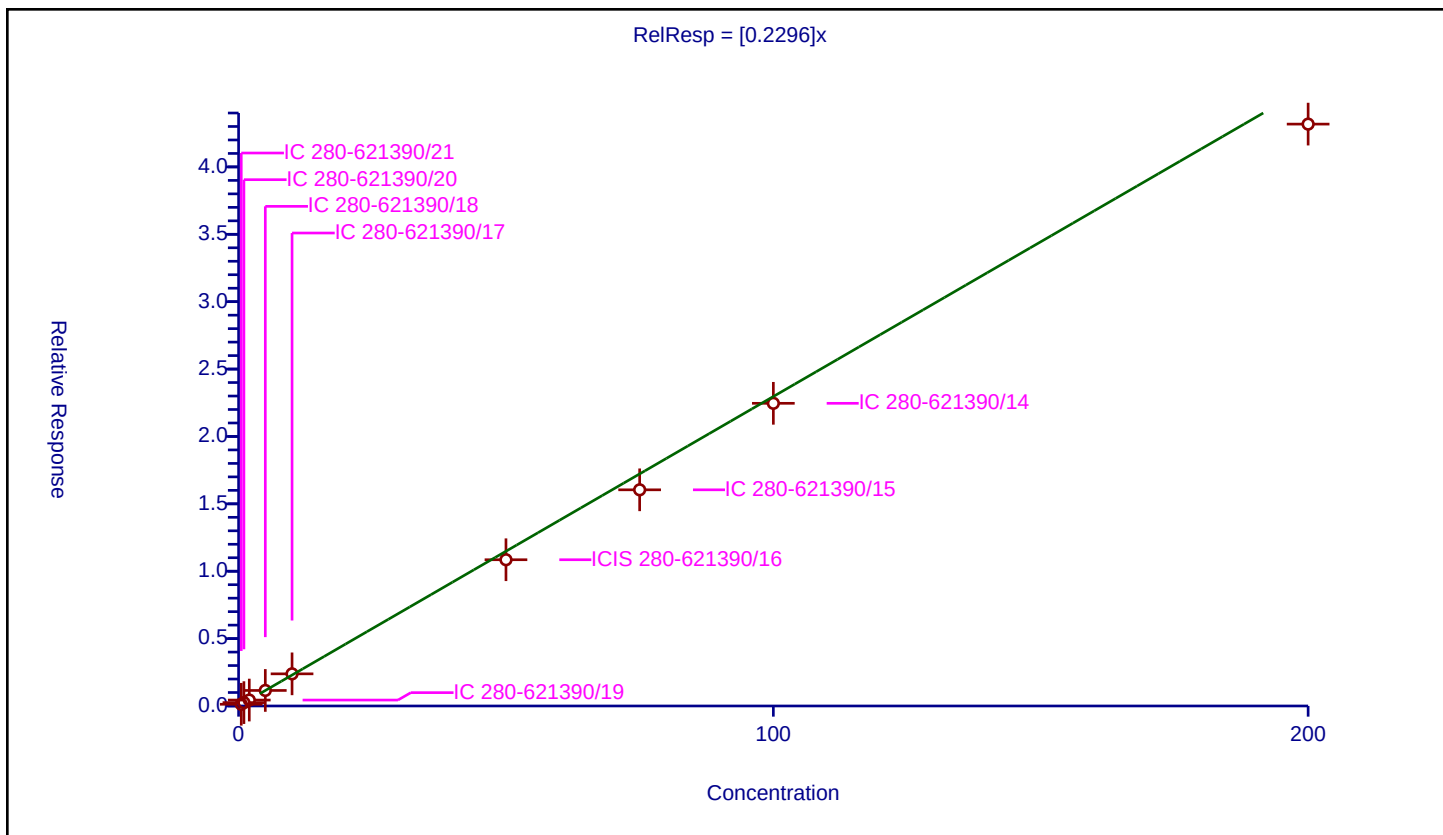
Curve Coefficients

Intercept: 0
Slope: 0.2296

Error Coefficients

Standard Error: 733000
Relative Standard Error: 6.7
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.12779	50.0	1827609.0	0.25558	Y
2	IC 280-621390/20	1.0	0.250717	50.0	1846303.0	0.250717	Y
3	IC 280-621390/19	2.0	0.439916	50.0	1932187.0	0.219958	Y
4	IC 280-621390/18	5.0	1.152995	50.0	1896972.0	0.230599	Y
5	IC 280-621390/17	10.0	2.384672	50.0	1925233.0	0.238467	Y
6	ICIS 280-621390/16	50.0	10.852001	50.0	2001055.0	0.21704	Y
7	IC 280-621390/15	75.0	16.040679	50.0	1975493.0	0.213876	Y
8	IC 280-621390/14	100.0	22.459386	50.0	1985012.0	0.224594	Y
9	IC 280-621390/13	200.0	43.177606	50.0	1973281.0	0.215888	Y



Calibration

/ Acrolein

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

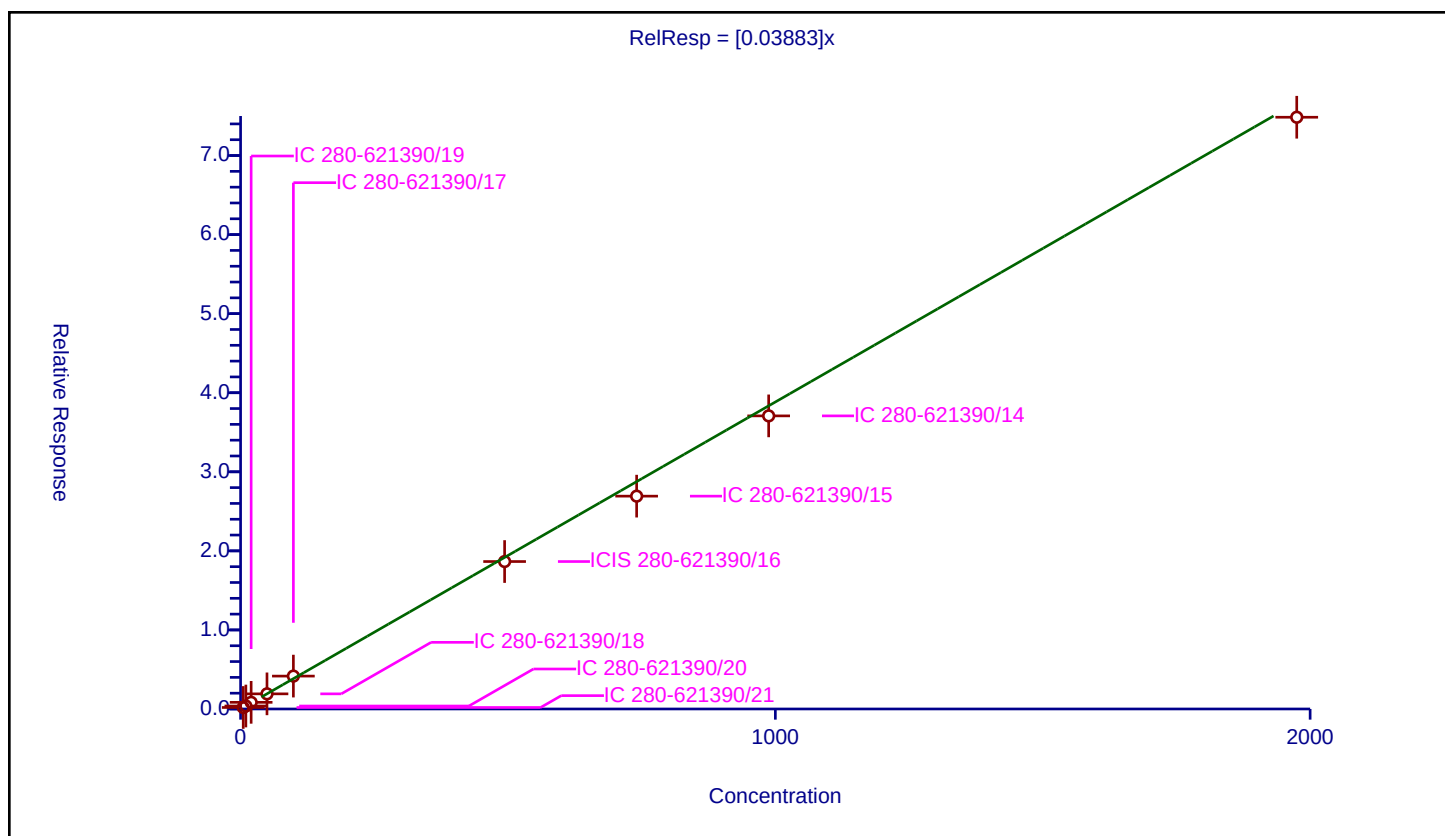
Curve Coefficients

Intercept: 0
 Slope: 0.03883

Error Coefficients

Standard Error: 1260000
 Relative Standard Error: 5.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	4.9375	0.189264	50.0	1827609.0	0.038332	Y
2	IC 280-621390/20	9.875	0.376374	50.0	1846303.0	0.038114	Y
3	IC 280-621390/19	19.75	0.839929	50.0	1932187.0	0.042528	Y
4	IC 280-621390/18	49.375	1.915711	50.0	1896972.0	0.038799	Y
5	IC 280-621390/17	98.75	4.159523	50.0	1925233.0	0.042122	Y
6	ICIS 280-621390/16	493.75	18.649712	50.0	2001055.0	0.037772	Y
7	IC 280-621390/15	740.625	26.919204	50.0	1975493.0	0.036347	Y
8	IC 280-621390/14	987.5	37.071665	50.0	1985012.0	0.037541	Y
9	IC 280-621390/13	1975.0	74.846259	50.0	1973281.0	0.037897	Y



Calibration

/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

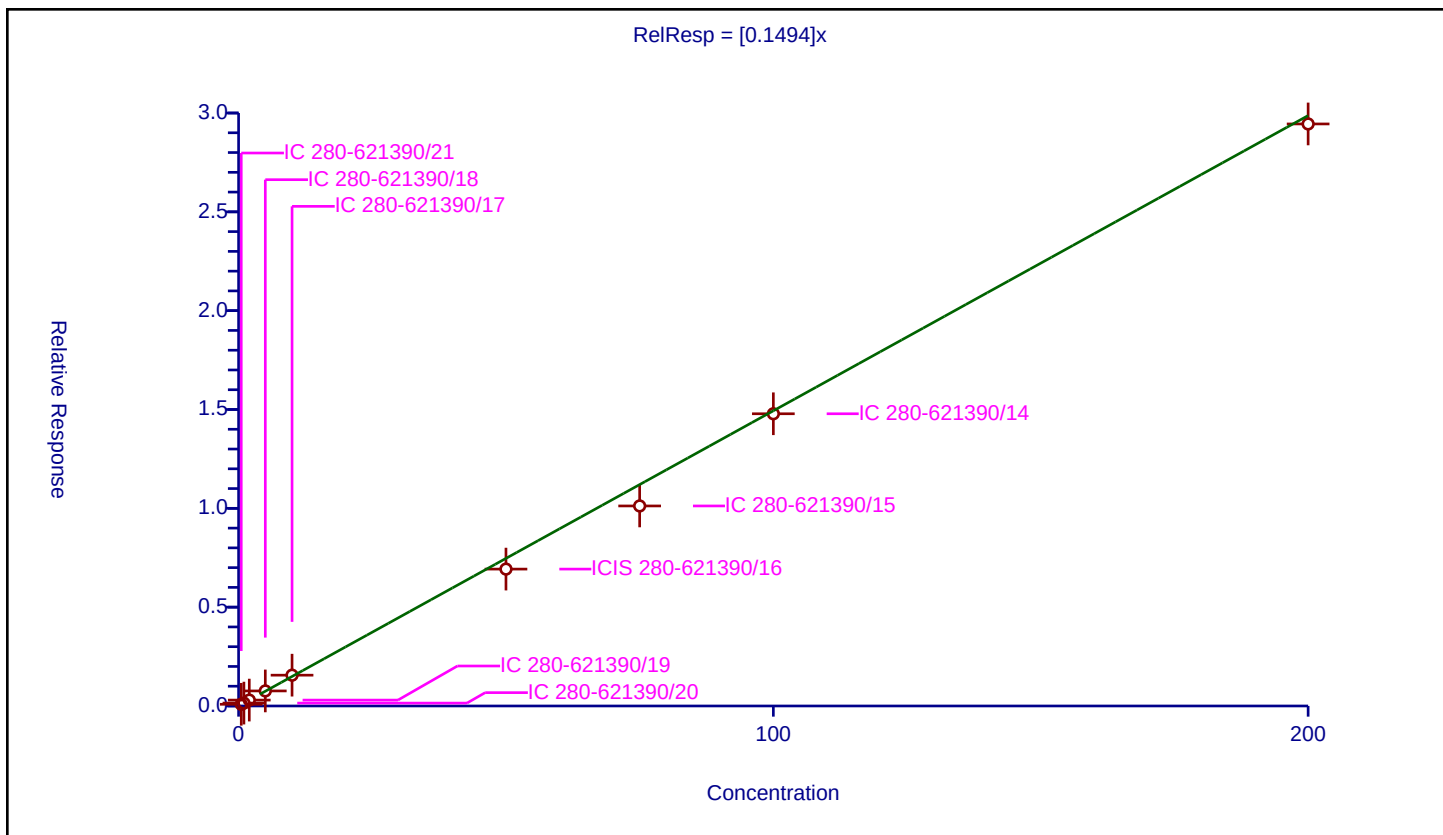
Curve Coefficients

Intercept: 0
Slope: 0.1494

Error Coefficients

Standard Error: 492000
Relative Standard Error: 7.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.086151	50.0	1827609.0	0.172302	Y
2	IC 280-621390/20	1.0	0.145967	50.0	1846303.0	0.145967	Y
3	IC 280-621390/19	2.0	0.298574	50.0	1932187.0	0.149287	Y
4	IC 280-621390/18	5.0	0.760923	50.0	1896972.0	0.152185	Y
5	IC 280-621390/17	10.0	1.558772	50.0	1925233.0	0.155877	Y
6	ICIS 280-621390/16	50.0	6.926071	50.0	2001055.0	0.138521	Y
7	IC 280-621390/15	75.0	10.120486	50.0	1975493.0	0.13494	Y
8	IC 280-621390/14	100.0	14.784646	50.0	1985012.0	0.147846	Y
9	IC 280-621390/13	200.0	29.446465	50.0	1973281.0	0.147232	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

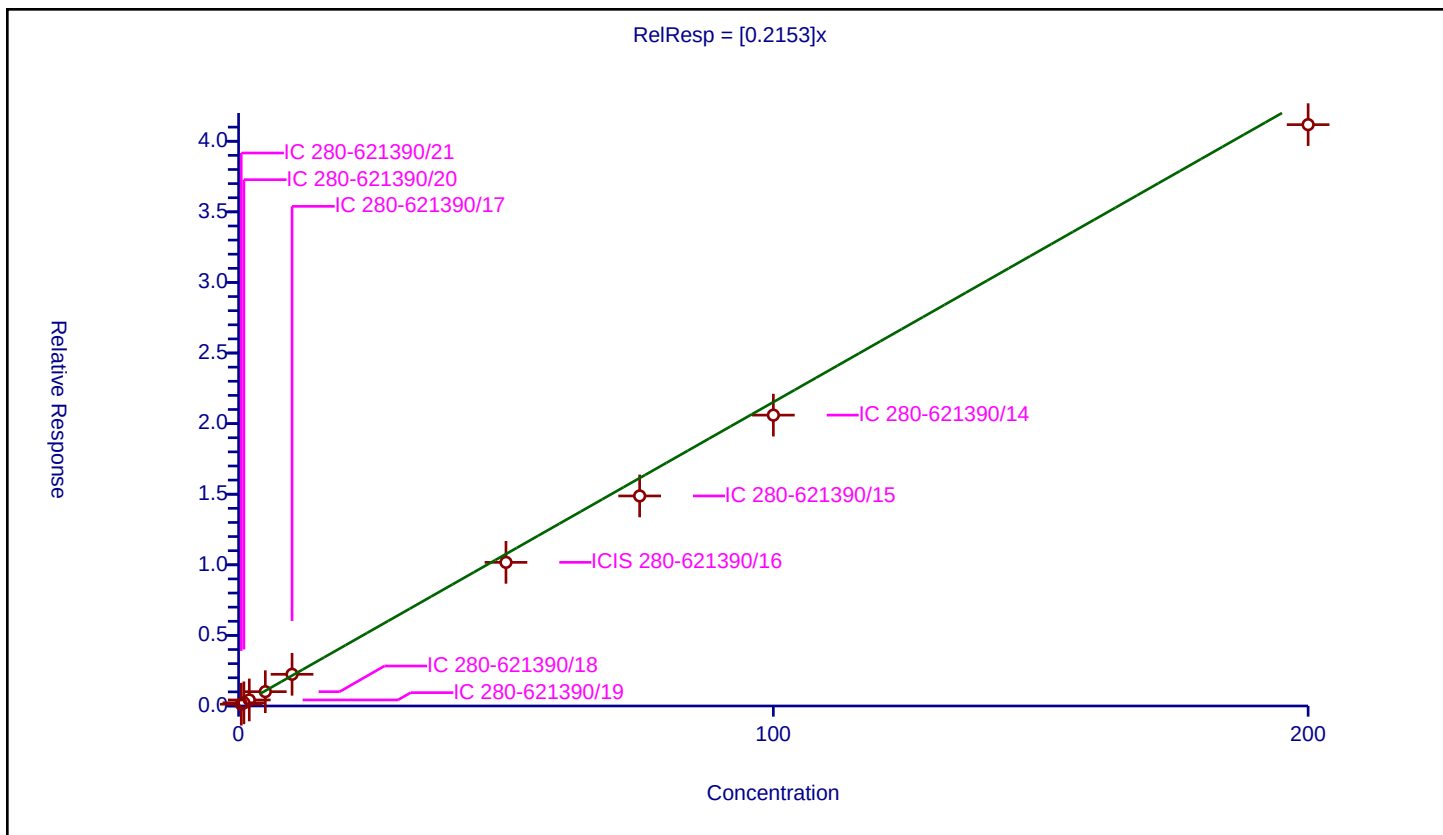
Curve Coefficients

Intercept: 0
 Slope: 0.2153

Error Coefficients

Standard Error: 692000
 Relative Standard Error: 8.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.127899	50.0	1827609.0	0.255799	Y
2	IC 280-621390/20	1.0	0.226128	50.0	1846303.0	0.226128	Y
3	IC 280-621390/19	2.0	0.428737	50.0	1932187.0	0.214368	Y
4	IC 280-621390/18	5.0	1.014195	50.0	1896972.0	0.202839	Y
5	IC 280-621390/17	10.0	2.245027	50.0	1925233.0	0.224503	Y
6	ICIS 280-621390/16	50.0	10.173284	50.0	2001055.0	0.203466	Y
7	IC 280-621390/15	75.0	14.87659	50.0	1975493.0	0.198355	Y
8	IC 280-621390/14	100.0	20.601639	50.0	1985012.0	0.206016	Y
9	IC 280-621390/13	200.0	41.176244	50.0	1973281.0	0.205881	Y



Calibration

/ Acetone

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

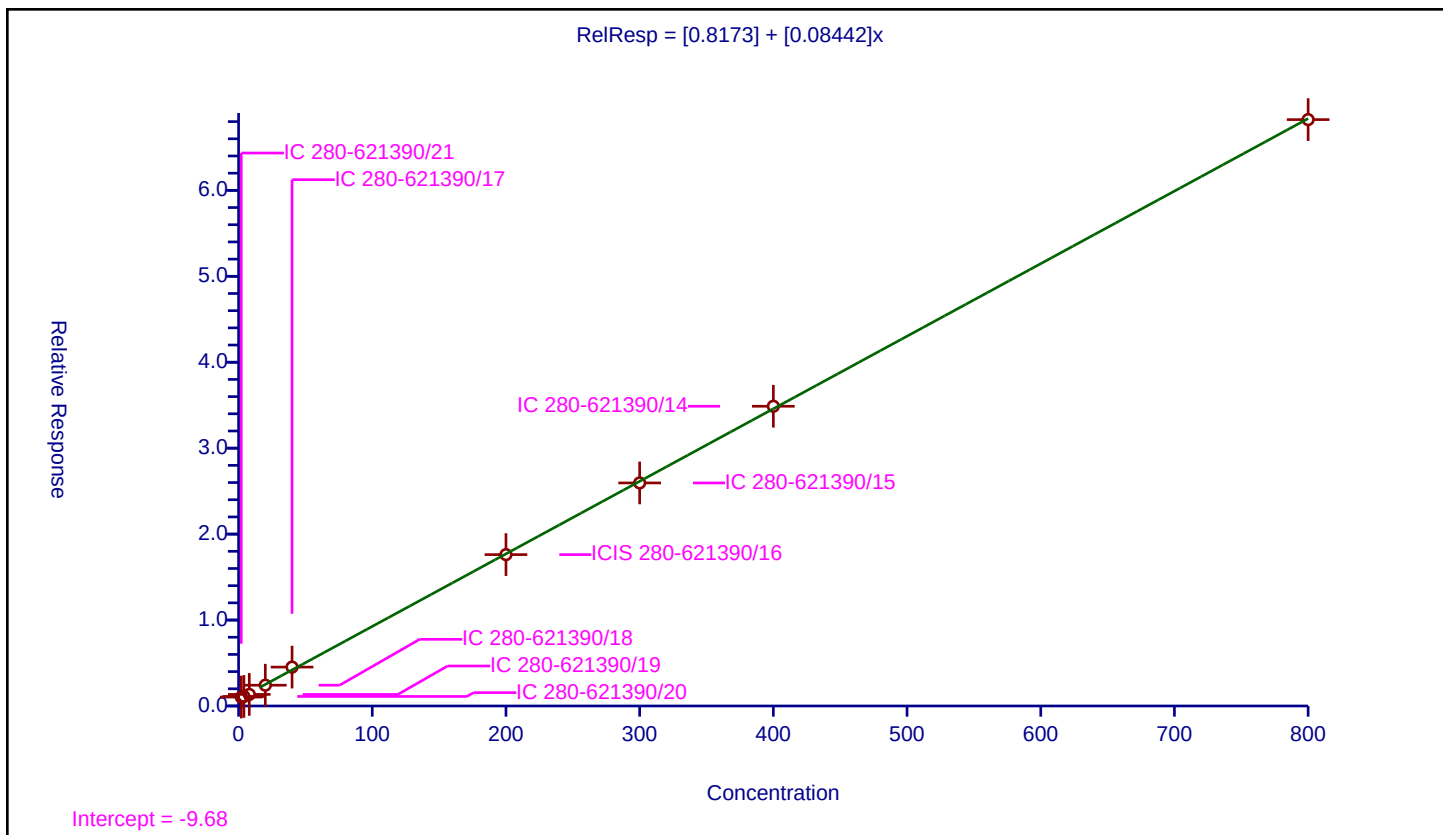
Curve Coefficients

Intercept: 0.8173
Slope: 0.08442

Error Coefficients

Standard Error: 1240000
Relative Standard Error: 15.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	2.0	1.038433	50.0	1827609.0	0.519217	Y
2	IC 280-621390/20	4.0	1.109433	50.0	1846303.0	0.277358	Y
3	IC 280-621390/19	8.0	1.346454	50.0	1932187.0	0.168307	Y
4	IC 280-621390/18	20.0	2.420041	50.0	1896972.0	0.121002	Y
5	IC 280-621390/17	40.0	4.526491	50.0	1925233.0	0.113162	Y
6	ICIS 280-621390/16	200.0	17.613384	50.0	2001055.0	0.088067	Y
7	IC 280-621390/15	300.0	25.956331	50.0	1975493.0	0.086521	Y
8	IC 280-621390/14	400.0	34.876741	50.0	1985012.0	0.087192	Y
9	IC 280-621390/13	800.0	68.232299	50.0	1973281.0	0.08529	Y



Calibration

/ Iodomethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

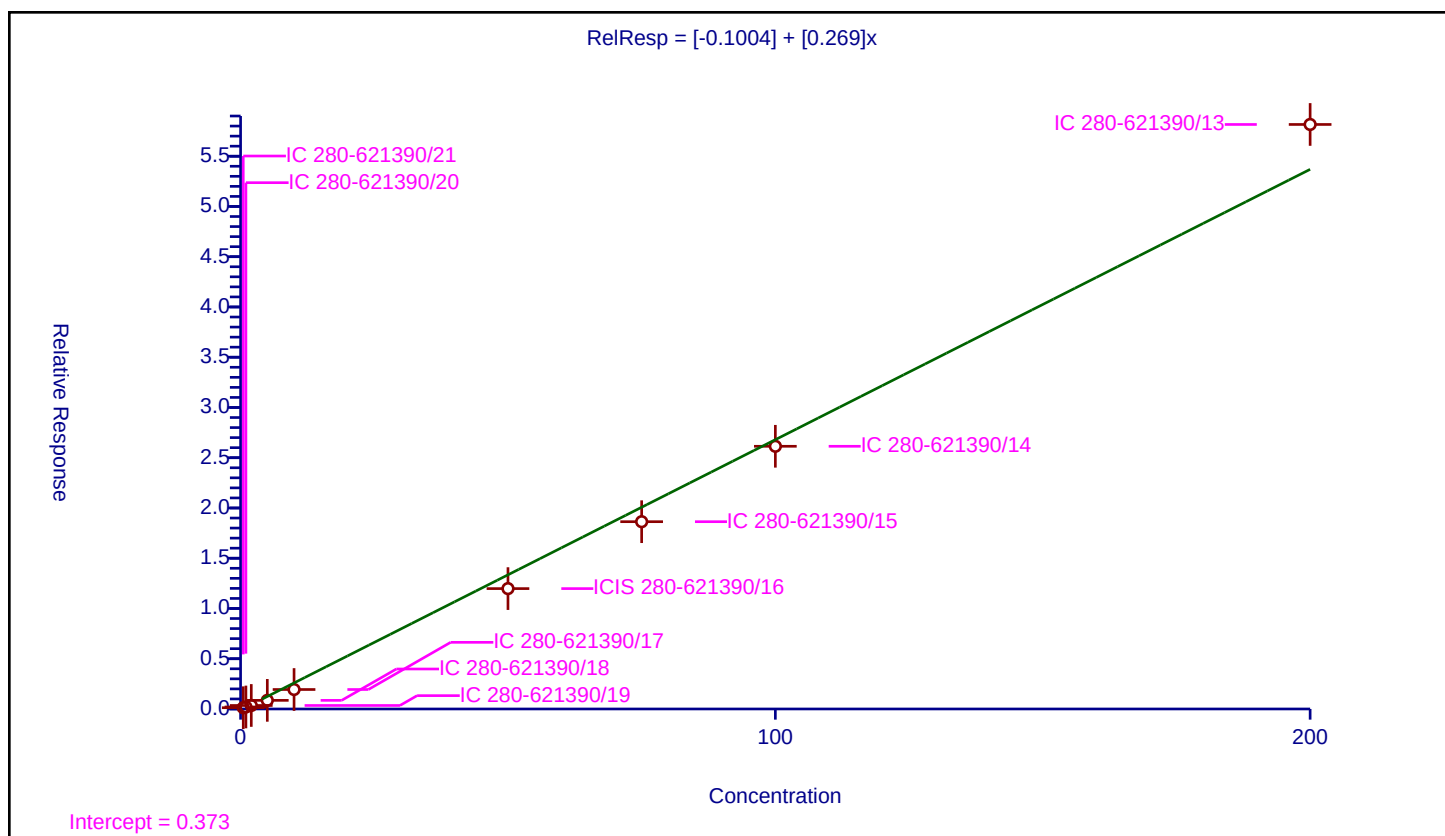
Curve Coefficients

Intercept: -0.1004
 Slope: 0.269

Error Coefficients

Standard Error: 1010000
 Relative Standard Error: 31.3
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.127215	50.0	1827609.0	0.254431	Y
2	IC 280-621390/20	1.0	0.19948	50.0	1846303.0	0.19948	Y
3	IC 280-621390/19	2.0	0.350225	50.0	1932187.0	0.175112	Y
4	IC 280-621390/18	5.0	0.85705	50.0	1896972.0	0.17141	Y
5	IC 280-621390/17	10.0	1.936934	50.0	1925233.0	0.193693	Y
6	ICIS 280-621390/16	50.0	11.978157	50.0	2001055.0	0.239563	Y
7	IC 280-621390/15	75.0	18.635095	50.0	1975493.0	0.248468	Y
8	IC 280-621390/14	100.0	26.139867	50.0	1985012.0	0.261399	Y
9	IC 280-621390/13	200.0	58.160115	50.0	1973281.0	0.290801	Y



Calibration

/ Carbon disulfide

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

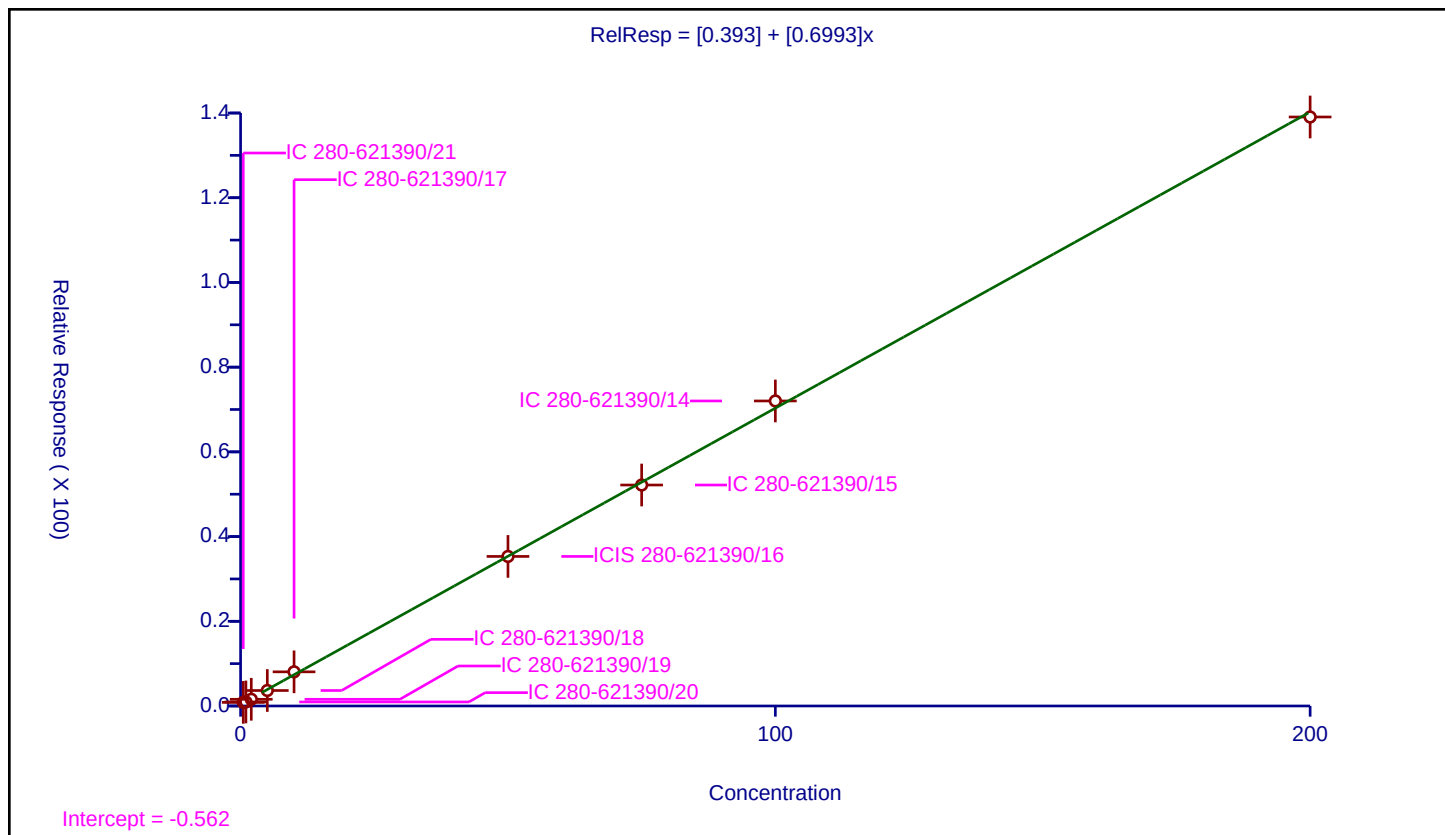
Curve Coefficients

Intercept: 0.393
Slope: 0.6993

Error Coefficients

Standard Error: 2530000
Relative Standard Error: 15.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.853	50.0	1827609.0	1.705999	Y
2	IC 280-621390/20	1.0	0.954042	50.0	1846303.0	0.954042	Y
3	IC 280-621390/19	2.0	1.582404	50.0	1932187.0	0.791202	Y
4	IC 280-621390/18	5.0	3.655062	50.0	1896972.0	0.731012	Y
5	IC 280-621390/17	10.0	8.062271	50.0	1925233.0	0.806227	Y
6	ICIS 280-621390/16	50.0	35.309874	50.0	2001055.0	0.706197	Y
7	IC 280-621390/15	75.0	52.171078	50.0	1975493.0	0.695614	Y
8	IC 280-621390/14	100.0	72.013948	50.0	1985012.0	0.720139	Y
9	IC 280-621390/13	200.0	139.060276	50.0	1973281.0	0.695301	Y



Calibration

/ Methyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

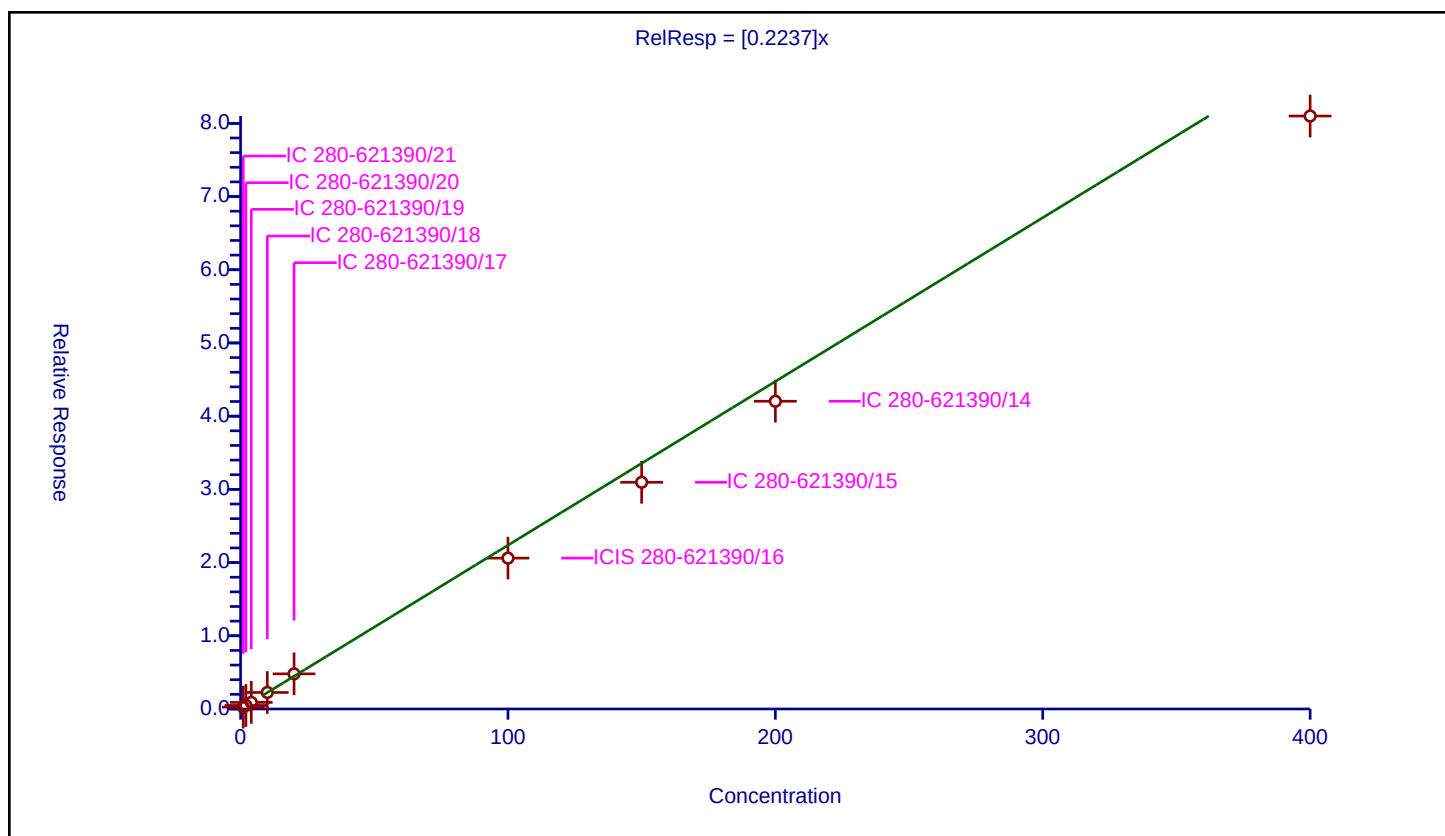
Curve Coefficients

Intercept: 0
 Slope: 0.2237

Error Coefficients

Standard Error: 1380000
 Relative Standard Error: 8.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	1.0	0.2561	50.0	1827609.0	0.2561	Y
2	IC 280-621390/20	2.0	0.484048	50.0	1846303.0	0.242024	Y
3	IC 280-621390/19	4.0	0.897377	50.0	1932187.0	0.224344	Y
4	IC 280-621390/18	10.0	2.255806	50.0	1896972.0	0.225581	Y
5	IC 280-621390/17	20.0	4.800276	50.0	1925233.0	0.240014	Y
6	ICIS 280-621390/16	100.0	20.60753	50.0	2001055.0	0.206075	Y
7	IC 280-621390/15	150.0	30.967662	50.0	1975493.0	0.206451	Y
8	IC 280-621390/14	200.0	42.03962	50.0	1985012.0	0.210198	Y
9	IC 280-621390/13	400.0	80.997663	50.0	1973281.0	0.202494	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

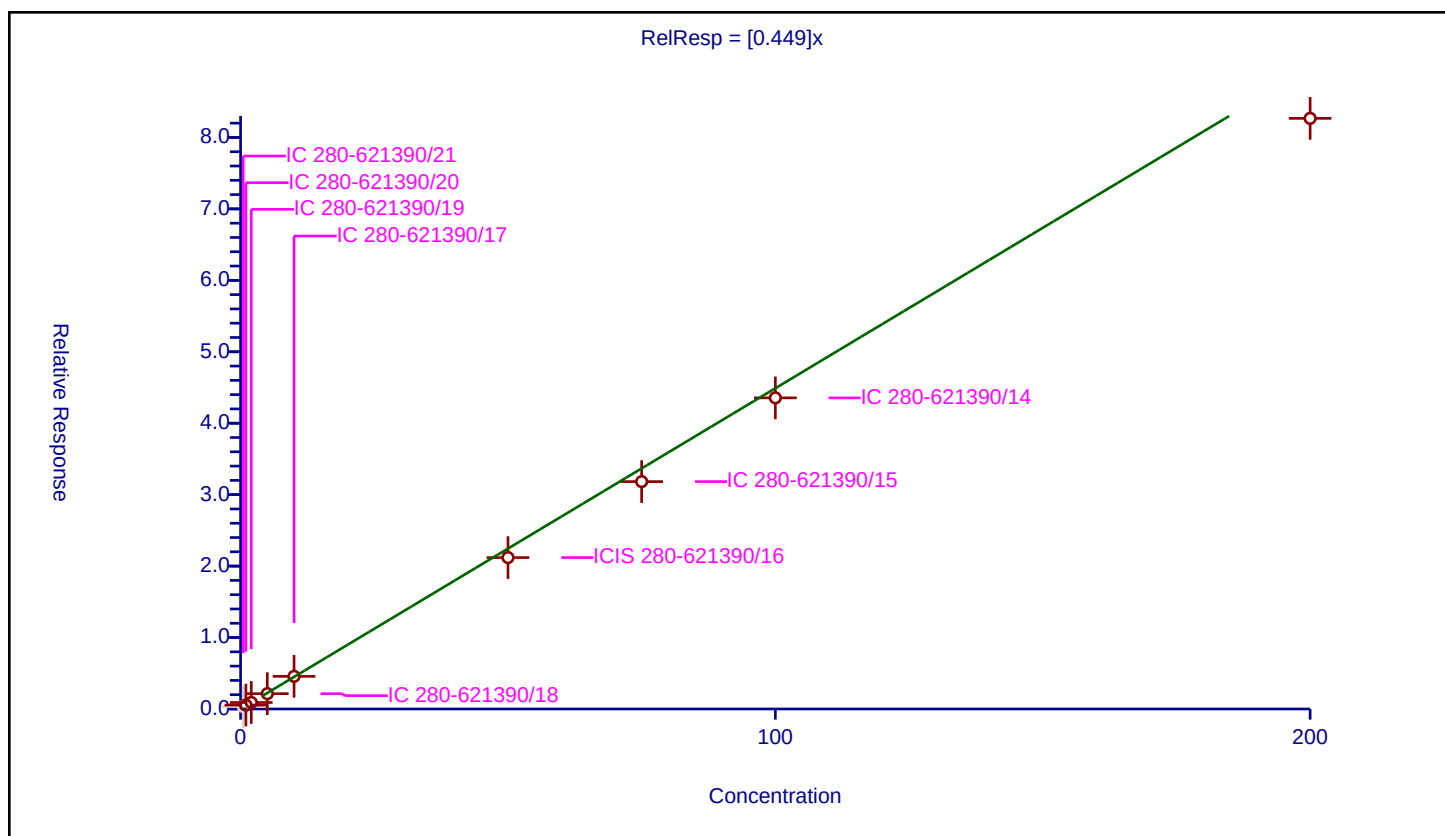
Curve Coefficients

Intercept: 0
Slope: 0.449

Error Coefficients

Standard Error: 1510000
Relative Standard Error: 10.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.341731	50.0	1827609.0	0.683461	N
2	IC 280-621390/20	1.0	0.554053	50.0	1846303.0	0.554053	Y
3	IC 280-621390/19	2.0	0.909022	50.0	1932187.0	0.454511	Y
4	IC 280-621390/18	5.0	2.14621	50.0	1896972.0	0.429242	Y
5	IC 280-621390/17	10.0	4.567473	50.0	1925233.0	0.456747	Y
6	ICIS 280-621390/16	50.0	21.192221	50.0	2001055.0	0.423844	Y
7	IC 280-621390/15	75.0	31.827625	50.0	1975493.0	0.424368	Y
8	IC 280-621390/14	100.0	43.549309	50.0	1985012.0	0.435493	Y
9	IC 280-621390/13	200.0	82.671348	50.0	1973281.0	0.413357	Y



Calibration

/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

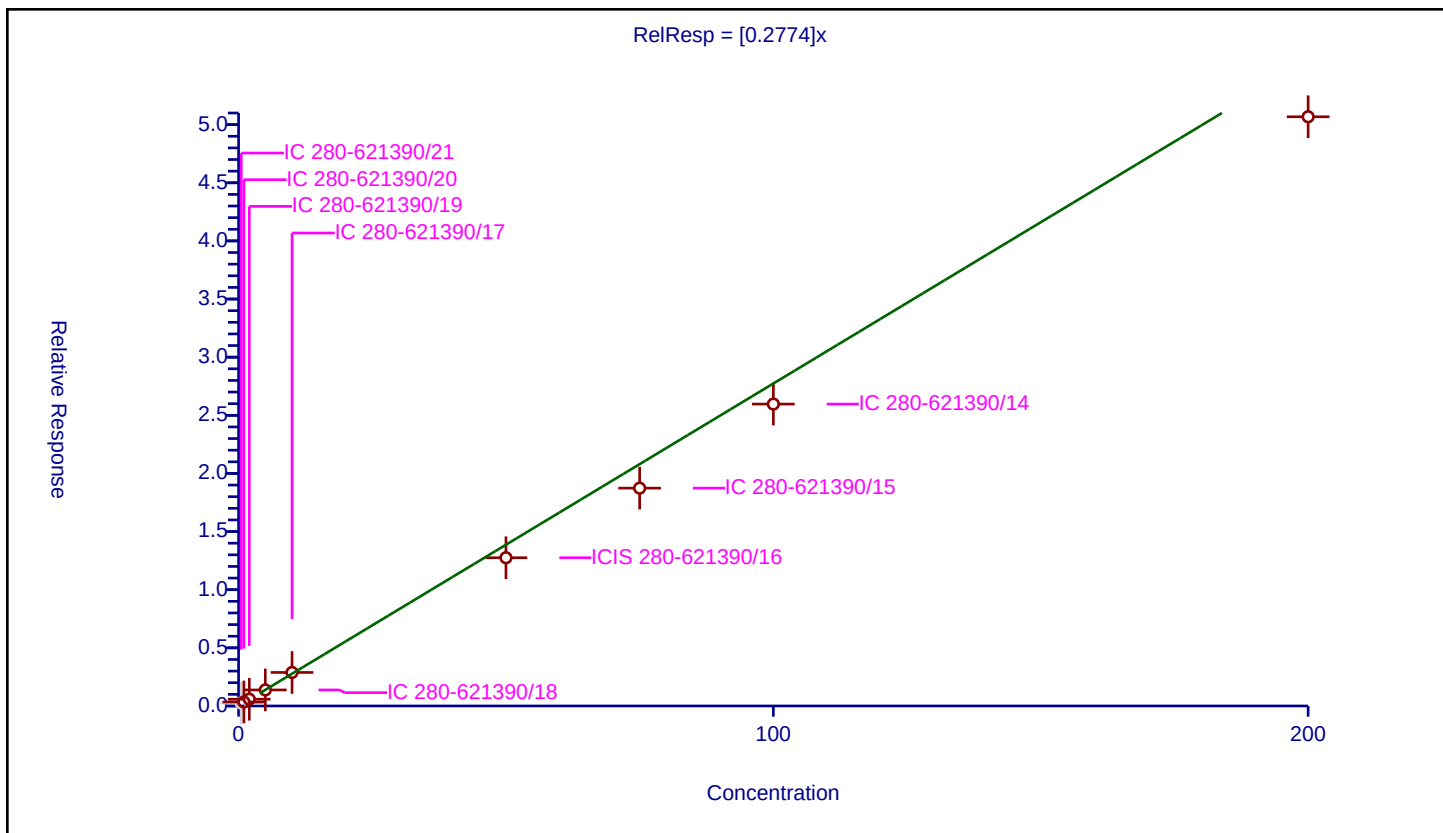
Curve Coefficients

Intercept: 0
 Slope: 0.2774

Error Coefficients

Standard Error: 917000
 Relative Standard Error: 11.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.256209	50.0	1827609.0	0.512418	N
2	IC 280-621390/20	1.0	0.344689	50.0	1846303.0	0.344689	Y
3	IC 280-621390/19	2.0	0.584234	50.0	1932187.0	0.292117	Y
4	IC 280-621390/18	5.0	1.378961	50.0	1896972.0	0.275792	Y
5	IC 280-621390/17	10.0	2.883625	50.0	1925233.0	0.288362	Y
6	ICIS 280-621390/16	50.0	12.751249	50.0	2001055.0	0.255025	Y
7	IC 280-621390/15	75.0	18.736108	50.0	1975493.0	0.249815	Y
8	IC 280-621390/14	100.0	25.966795	50.0	1985012.0	0.259668	Y
9	IC 280-621390/13	200.0	50.677602	50.0	1973281.0	0.253388	Y



Calibration

/ 2-Methyl-2-propanol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

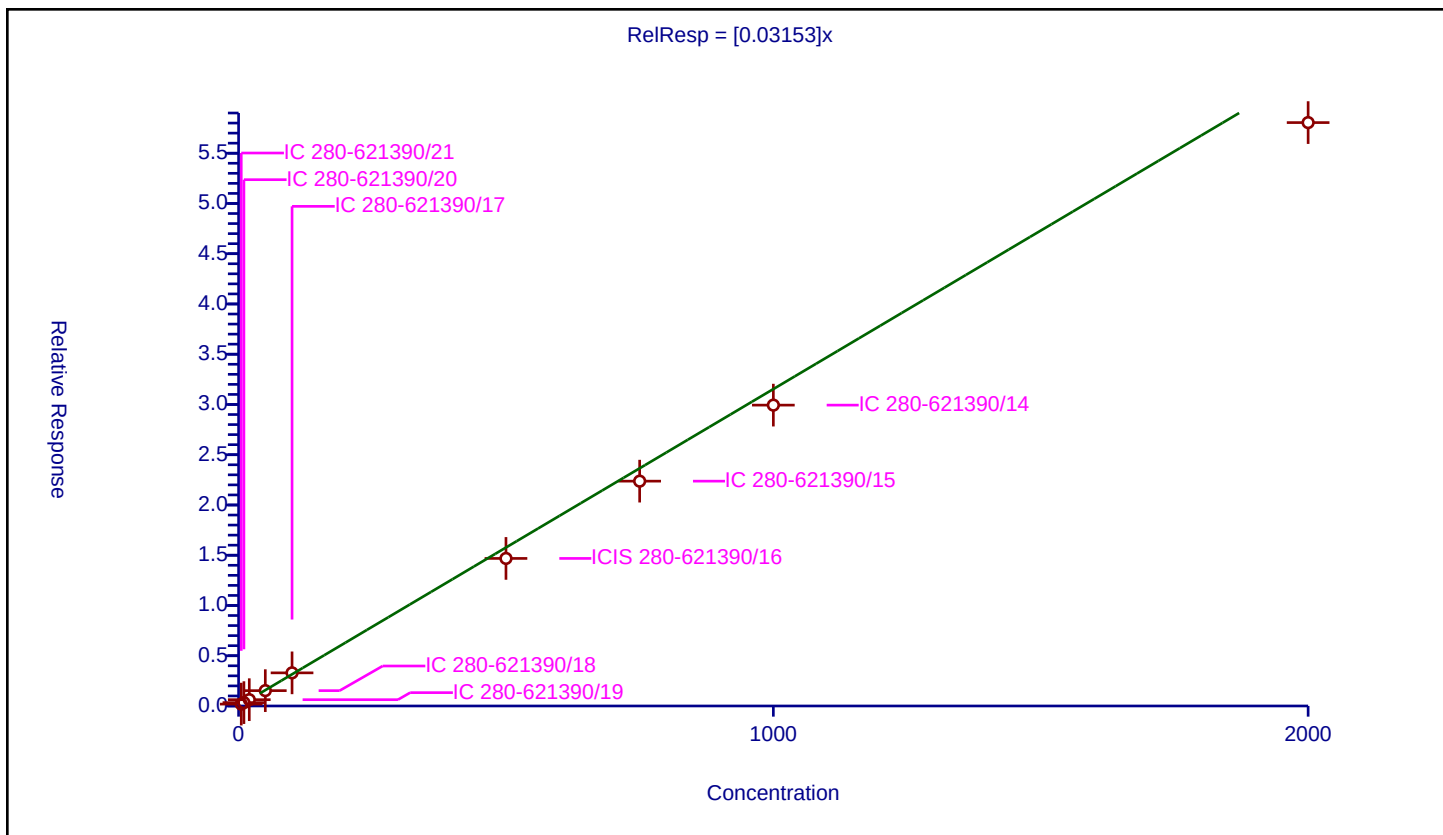
Curve Coefficients

Intercept: 0
Slope: 0.03153

Error Coefficients

Standard Error: 988000
Relative Standard Error: 8.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	5.0	0.186172	50.0	1827609.0	0.037234	Y
2	IC 280-621390/20	10.0	0.335129	50.0	1846303.0	0.033513	Y
3	IC 280-621390/19	20.0	0.628329	50.0	1932187.0	0.031416	Y
4	IC 280-621390/18	50.0	1.525826	50.0	1896972.0	0.030517	Y
5	IC 280-621390/17	100.0	3.297445	50.0	1925233.0	0.032974	Y
6	ICIS 280-621390/16	500.0	14.681281	50.0	2001055.0	0.029363	Y
7	IC 280-621390/15	750.0	22.370188	50.0	1975493.0	0.029827	Y
8	IC 280-621390/14	1000.0	29.935461	50.0	1985012.0	0.029935	Y
9	IC 280-621390/13	2000.0	58.04822	50.0	1973281.0	0.029024	Y



Calibration

/ Acrylonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

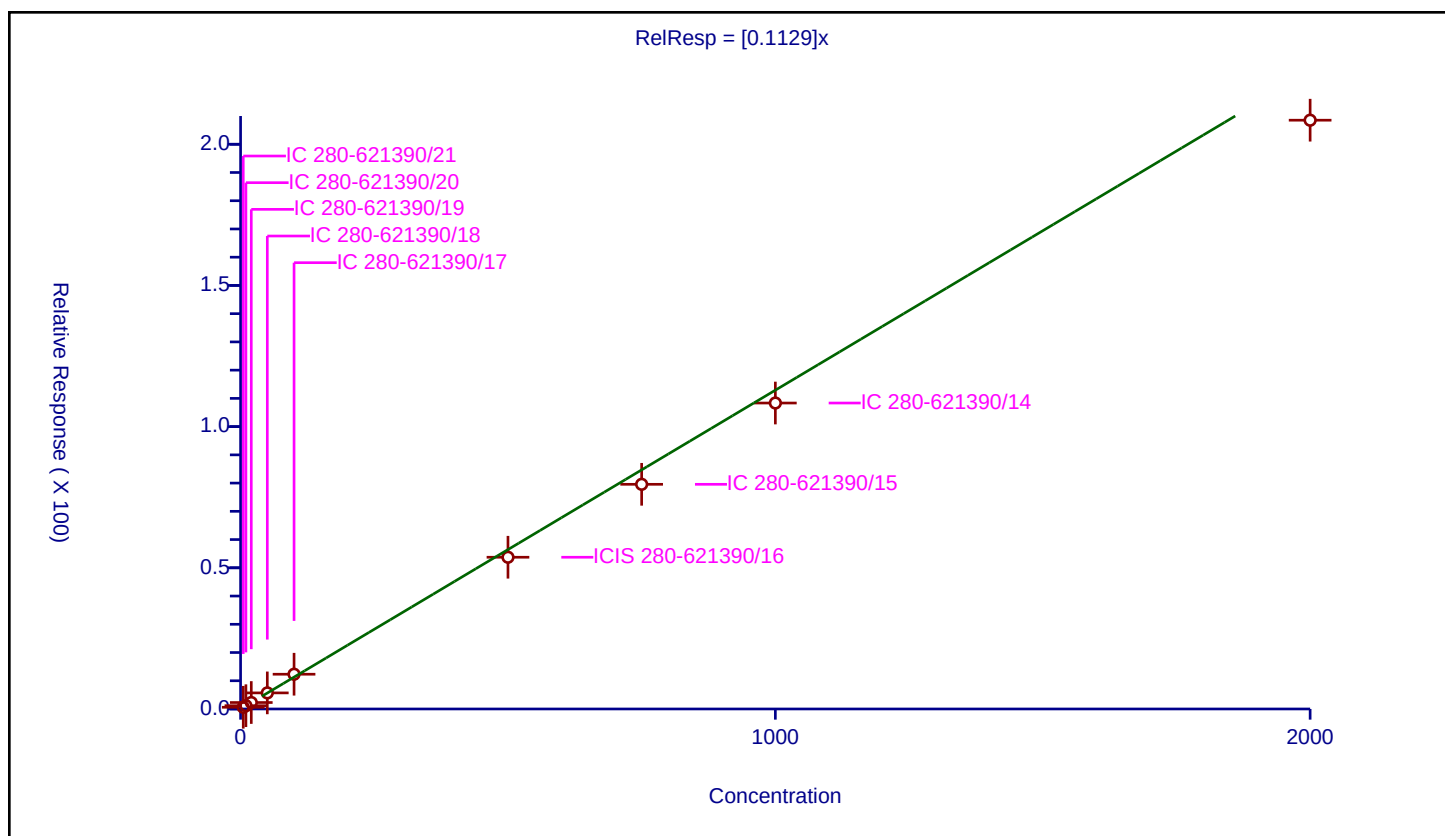
Curve Coefficients

Intercept: 0
Slope: 0.1129

Error Coefficients

Standard Error: 3550000
Relative Standard Error: 6.0
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	5.0	0.605928	50.0	1827609.0	0.121186	Y
2	IC 280-621390/20	10.0	1.169662	50.0	1846303.0	0.116966	Y
3	IC 280-621390/19	20.0	2.293903	50.0	1932187.0	0.114695	Y
4	IC 280-621390/18	50.0	5.699768	50.0	1896972.0	0.113995	Y
5	IC 280-621390/17	100.0	12.312224	50.0	1925233.0	0.123122	Y
6	ICIS 280-621390/16	500.0	53.736029	50.0	2001055.0	0.107472	Y
7	IC 280-621390/15	750.0	79.567809	50.0	1975493.0	0.10609	Y
8	IC 280-621390/14	1000.0	108.357783	50.0	1985012.0	0.108358	Y
9	IC 280-621390/13	2000.0	208.515614	50.0	1973281.0	0.104258	Y



Calibration

/ Methyl tert-butyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

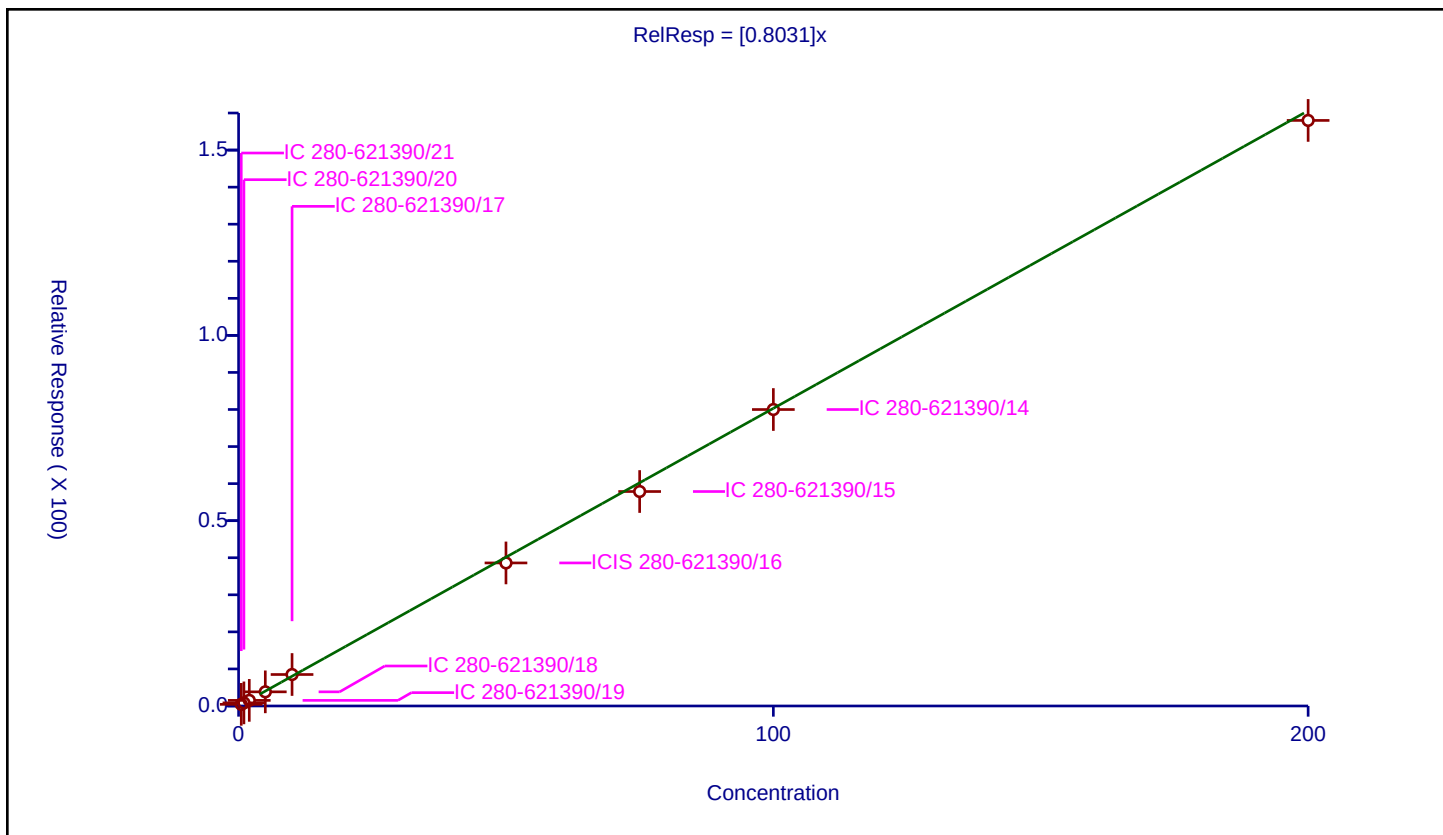
Curve Coefficients

Intercept: 0
 Slope: 0.8031

Error Coefficients

Standard Error: 2660000
 Relative Standard Error: 5.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.443394	50.0	1827609.0	0.886787	Y
2	IC 280-621390/20	1.0	0.837755	50.0	1846303.0	0.837755	Y
3	IC 280-621390/19	2.0	1.514915	50.0	1932187.0	0.757458	Y
4	IC 280-621390/18	5.0	3.814395	50.0	1896972.0	0.762879	Y
5	IC 280-621390/17	10.0	8.493985	50.0	1925233.0	0.849398	Y
6	ICIS 280-621390/16	50.0	38.59804	50.0	2001055.0	0.771961	Y
7	IC 280-621390/15	75.0	57.871428	50.0	1975493.0	0.771619	Y
8	IC 280-621390/14	100.0	79.995134	50.0	1985012.0	0.799951	Y
9	IC 280-621390/13	200.0	157.999824	50.0	1973281.0	0.789999	Y



Calibration

/ trans-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

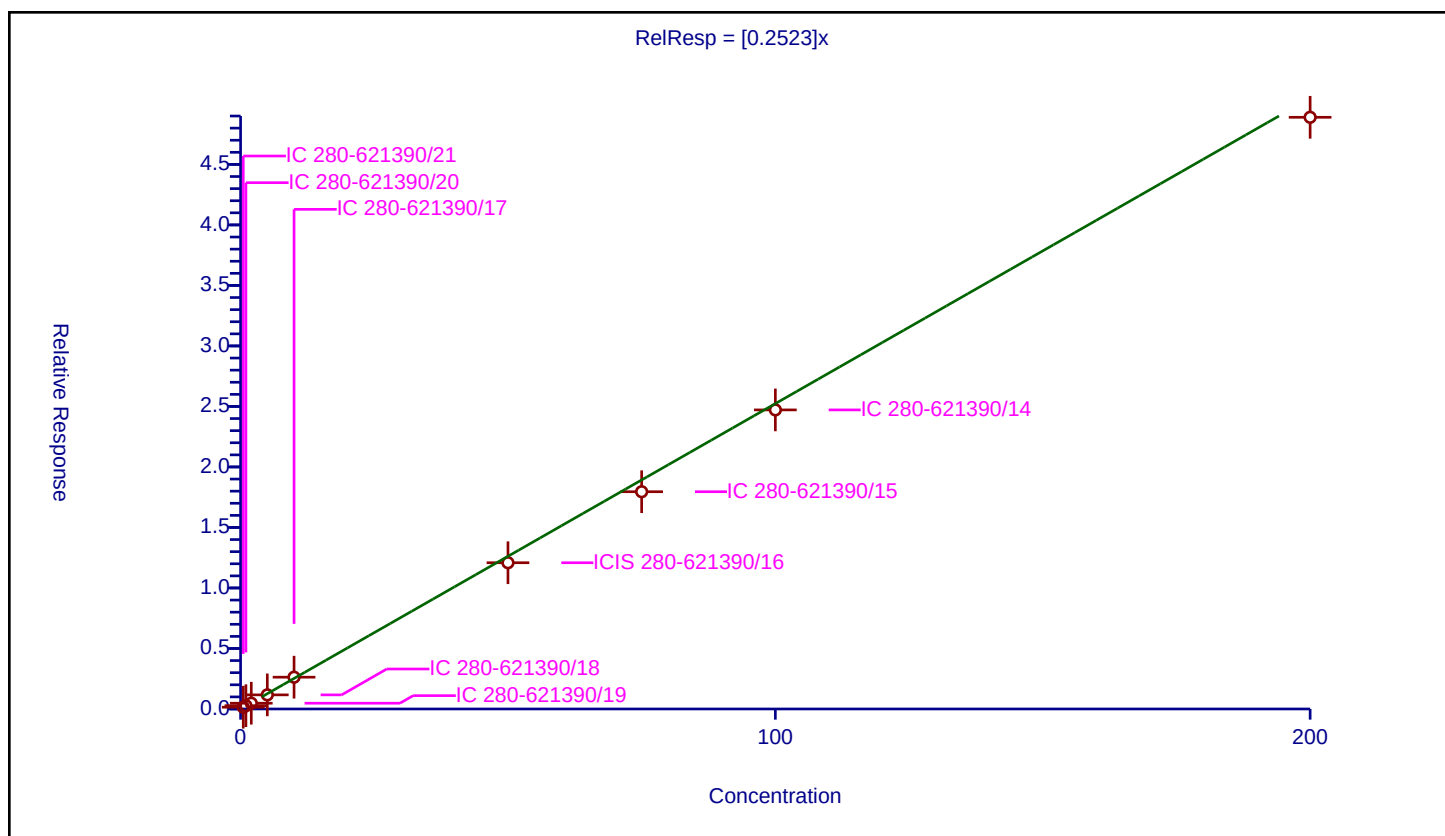
Curve Coefficients

Intercept: 0
Slope: 0.2523

Error Coefficients

Standard Error: 824000
Relative Standard Error: 7.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.145901	50.0	1827609.0	0.291802	Y
2	IC 280-621390/20	1.0	0.272274	50.0	1846303.0	0.272274	Y
3	IC 280-621390/19	2.0	0.476015	50.0	1932187.0	0.238008	Y
4	IC 280-621390/18	5.0	1.167861	50.0	1896972.0	0.233572	Y
5	IC 280-621390/17	10.0	2.62776	50.0	1925233.0	0.262776	Y
6	ICIS 280-621390/16	50.0	12.08465	50.0	2001055.0	0.241693	Y
7	IC 280-621390/15	75.0	17.95443	50.0	1975493.0	0.239392	Y
8	IC 280-621390/14	100.0	24.713352	50.0	1985012.0	0.247134	Y
9	IC 280-621390/13	200.0	48.895013	50.0	1973281.0	0.244475	Y



Calibration

/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

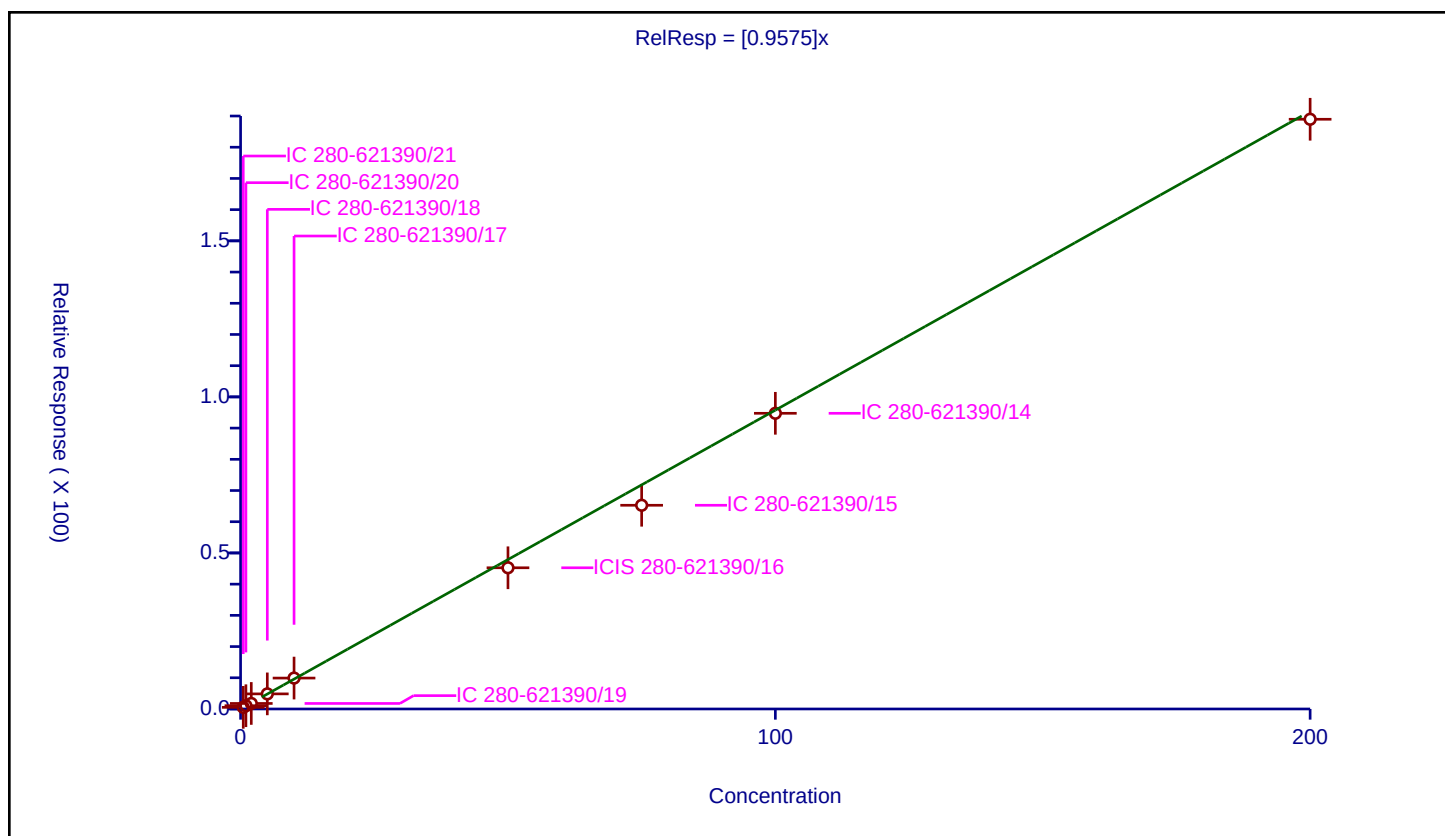
Curve Coefficients

Intercept: 0
Slope: 0.9575

Error Coefficients

Standard Error: 877000
Relative Standard Error: 6.8
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.527901	50.0	495453.0	1.055801	Y
2	IC 280-621390/20	1.0	1.046494	50.0	494365.0	1.046494	Y
3	IC 280-621390/19	2.0	1.777106	50.0	517133.0	0.888553	Y
4	IC 280-621390/18	5.0	4.84178	50.0	514315.0	0.968356	Y
5	IC 280-621390/17	10.0	9.908557	50.0	520873.0	0.990856	Y
6	ICIS 280-621390/16	50.0	45.251055	50.0	536814.0	0.905021	Y
7	IC 280-621390/15	75.0	65.27916	50.0	539529.0	0.870389	Y
8	IC 280-621390/14	100.0	94.748665	50.0	547318.0	0.947487	Y
9	IC 280-621390/13	200.0	188.959174	50.0	550774.0	0.944796	Y



Calibration

/ Vinyl acetate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

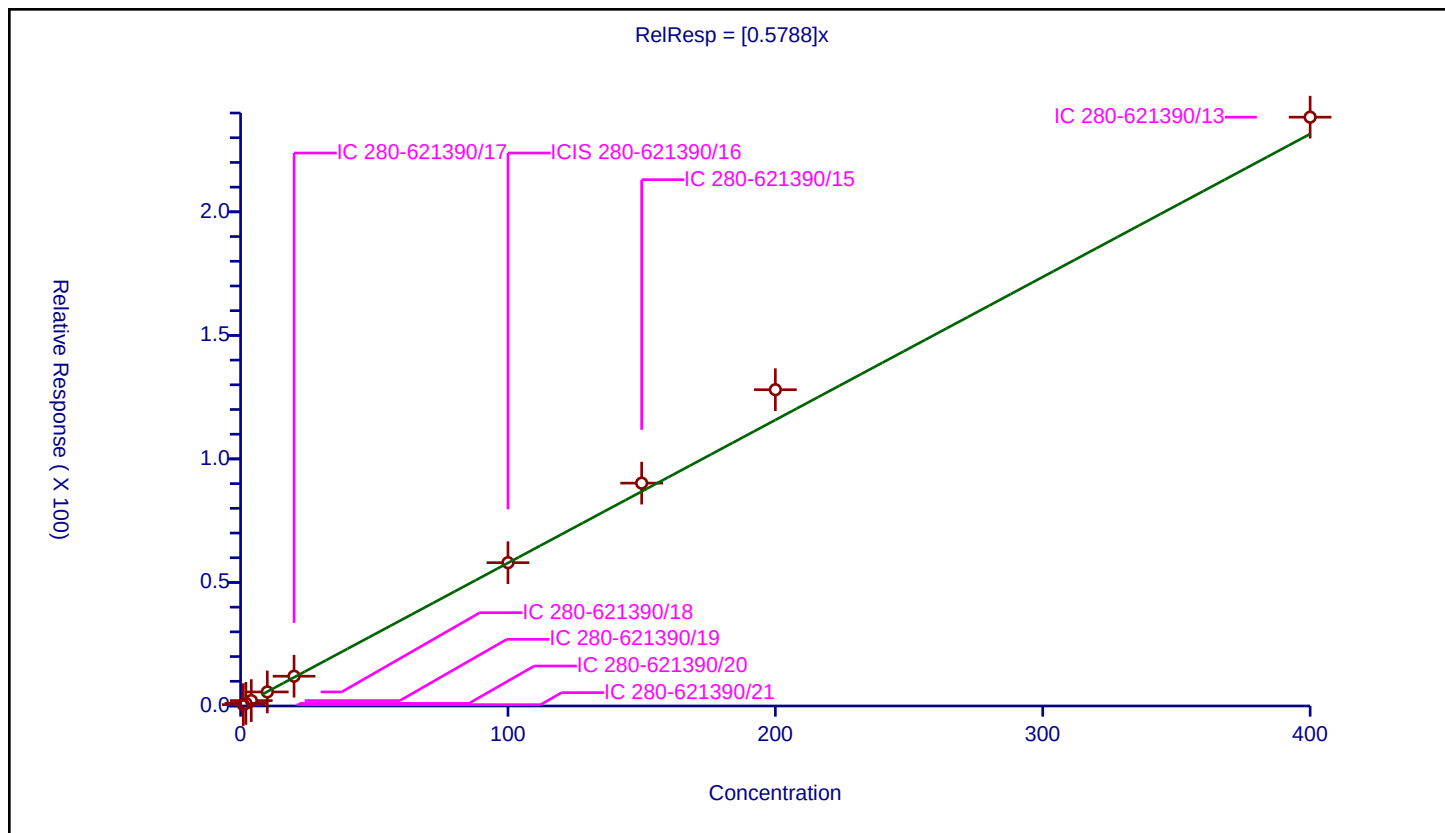
Curve Coefficients

Intercept: 0
 Slope: 0.5788

Error Coefficients

Standard Error: 4070000
 Relative Standard Error: 6.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	1.0	0.545549	50.0	1827609.0	0.545549	Y
2	IC 280-621390/20	2.0	1.055731	50.0	1846303.0	0.527866	Y
3	IC 280-621390/19	4.0	2.187469	50.0	1932187.0	0.546867	Y
4	IC 280-621390/18	10.0	5.687775	50.0	1896972.0	0.568778	Y
5	IC 280-621390/17	20.0	12.054697	50.0	1925233.0	0.602735	Y
6	ICIS 280-621390/16	100.0	58.010325	50.0	2001055.0	0.580103	Y
7	IC 280-621390/15	150.0	90.206774	50.0	1975493.0	0.601378	Y
8	IC 280-621390/14	200.0	128.01041	50.0	1985012.0	0.640052	Y
9	IC 280-621390/13	400.0	238.316236	50.0	1973281.0	0.595791	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

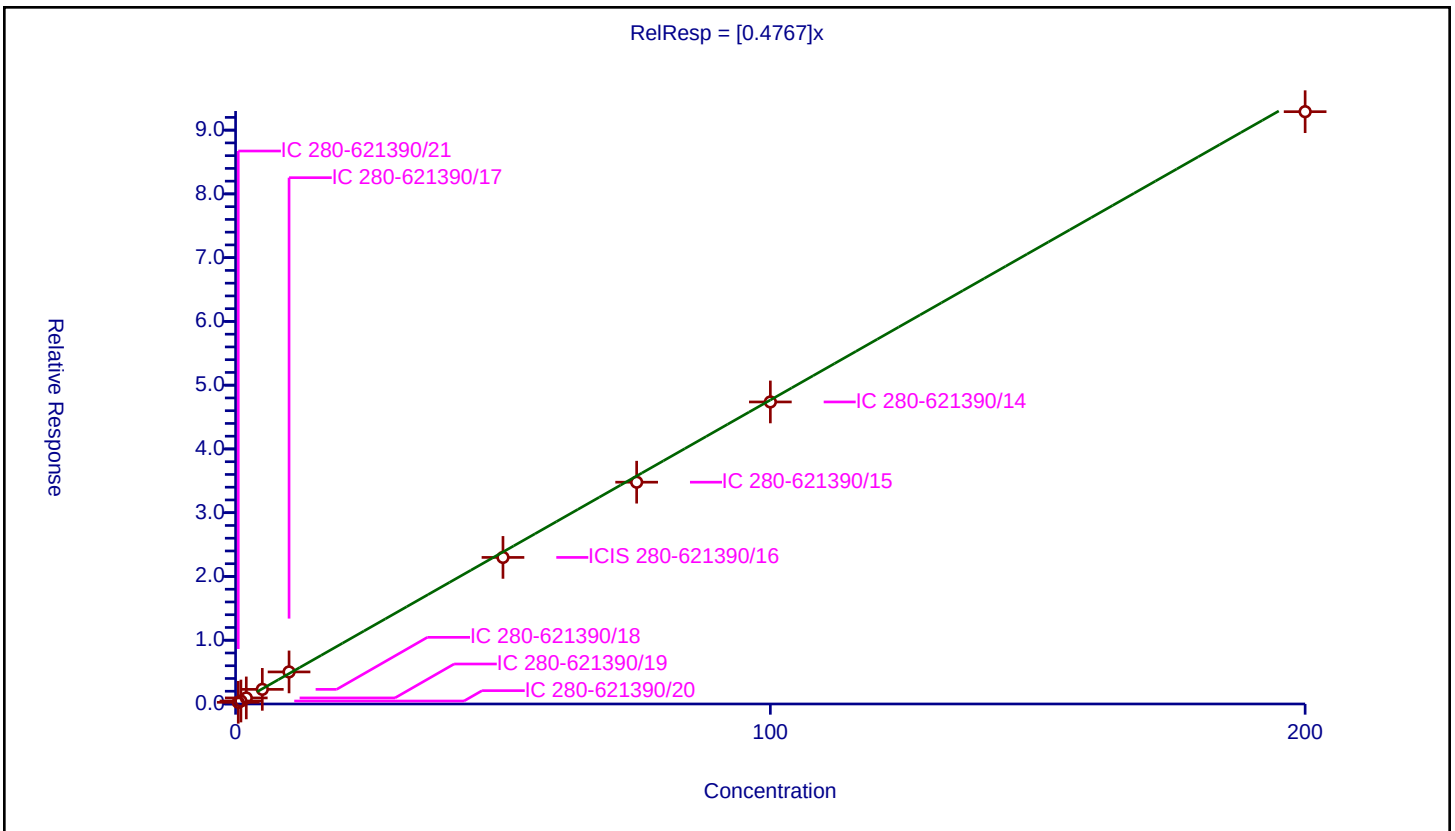
Curve Coefficients

Intercept: 0
Slope: 0.4767

Error Coefficients

Standard Error: 1570000
Relative Standard Error: 4.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.262939	50.0	1827609.0	0.525878	Y
2	IC 280-621390/20	1.0	0.465985	50.0	1846303.0	0.465985	Y
3	IC 280-621390/19	2.0	0.950633	50.0	1932187.0	0.475316	Y
4	IC 280-621390/18	5.0	2.294341	50.0	1896972.0	0.458868	Y
5	IC 280-621390/17	10.0	5.028482	50.0	1925233.0	0.502848	Y
6	ICIS 280-621390/16	50.0	22.989273	50.0	2001055.0	0.459785	Y
7	IC 280-621390/15	75.0	34.78433	50.0	1975493.0	0.463791	Y
8	IC 280-621390/14	100.0	47.371401	50.0	1985012.0	0.473714	Y
9	IC 280-621390/13	200.0	92.894372	50.0	1973281.0	0.464472	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

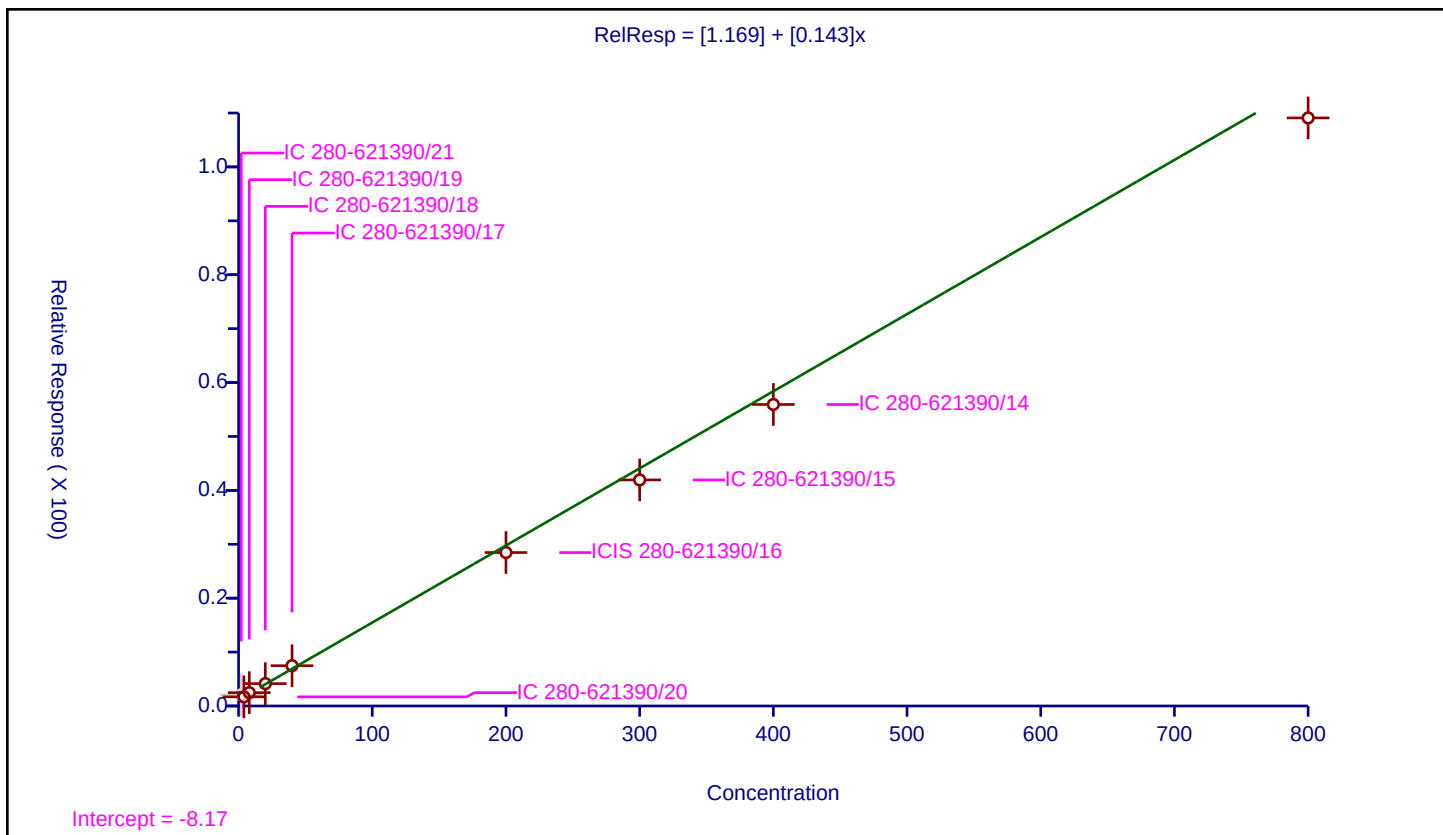
Curve Coefficients

Intercept: 1.169
 Slope: 0.143

Error Coefficients

Standard Error: 2150000
 Relative Standard Error: 9.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	2.0	2.085922	50.0	1827609.0	1.042961	N
2	IC 280-621390/20	4.0	1.692382	50.0	1846303.0	0.423096	Y
3	IC 280-621390/19	8.0	2.472121	50.0	1932187.0	0.309015	Y
4	IC 280-621390/18	20.0	4.145923	50.0	1896972.0	0.207296	Y
5	IC 280-621390/17	40.0	7.470602	50.0	1925233.0	0.186765	Y
6	ICIS 280-621390/16	200.0	28.465884	50.0	2001055.0	0.142329	Y
7	IC 280-621390/15	300.0	41.938139	50.0	1975493.0	0.139794	Y
8	IC 280-621390/14	400.0	55.930997	50.0	1985012.0	0.139827	Y
9	IC 280-621390/13	800.0	109.08981	50.0	1973281.0	0.136362	Y



Calibration

/ cis-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

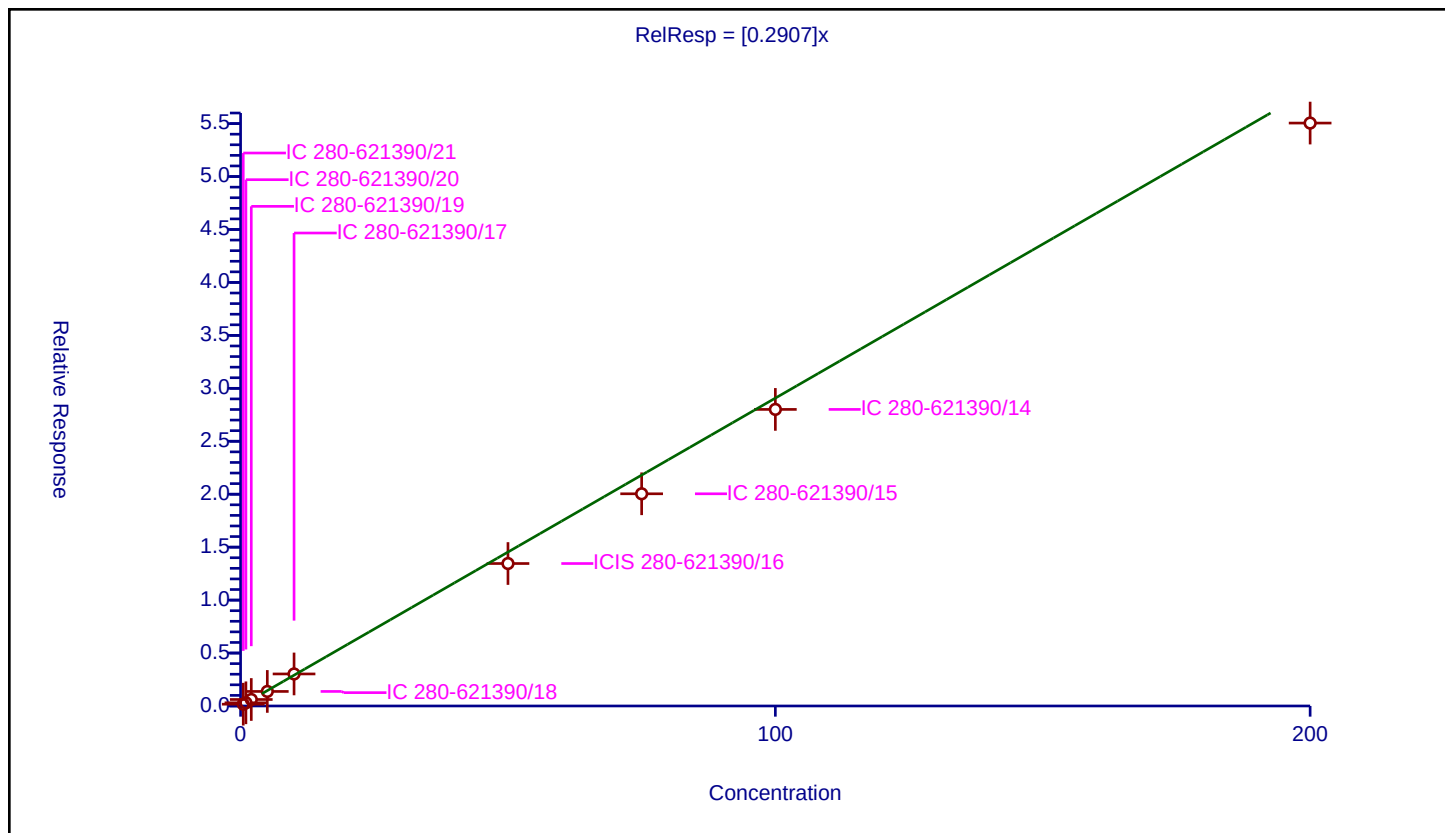
Curve Coefficients

Intercept: 0
Slope: 0.2907

Error Coefficients

Standard Error: 928000
Relative Standard Error: 8.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.170086	50.0	1827609.0	0.340171	Y
2	IC 280-621390/20	1.0	0.301332	50.0	1846303.0	0.301332	Y
3	IC 280-621390/19	2.0	0.61226	50.0	1932187.0	0.30613	Y
4	IC 280-621390/18	5.0	1.374533	50.0	1896972.0	0.274907	Y
5	IC 280-621390/17	10.0	3.025608	50.0	1925233.0	0.302561	Y
6	ICIS 280-621390/16	50.0	13.454728	50.0	2001055.0	0.269095	Y
7	IC 280-621390/15	75.0	20.041225	50.0	1975493.0	0.267216	Y
8	IC 280-621390/14	100.0	28.00837	50.0	1985012.0	0.280084	Y
9	IC 280-621390/13	200.0	55.050573	50.0	1973281.0	0.275253	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

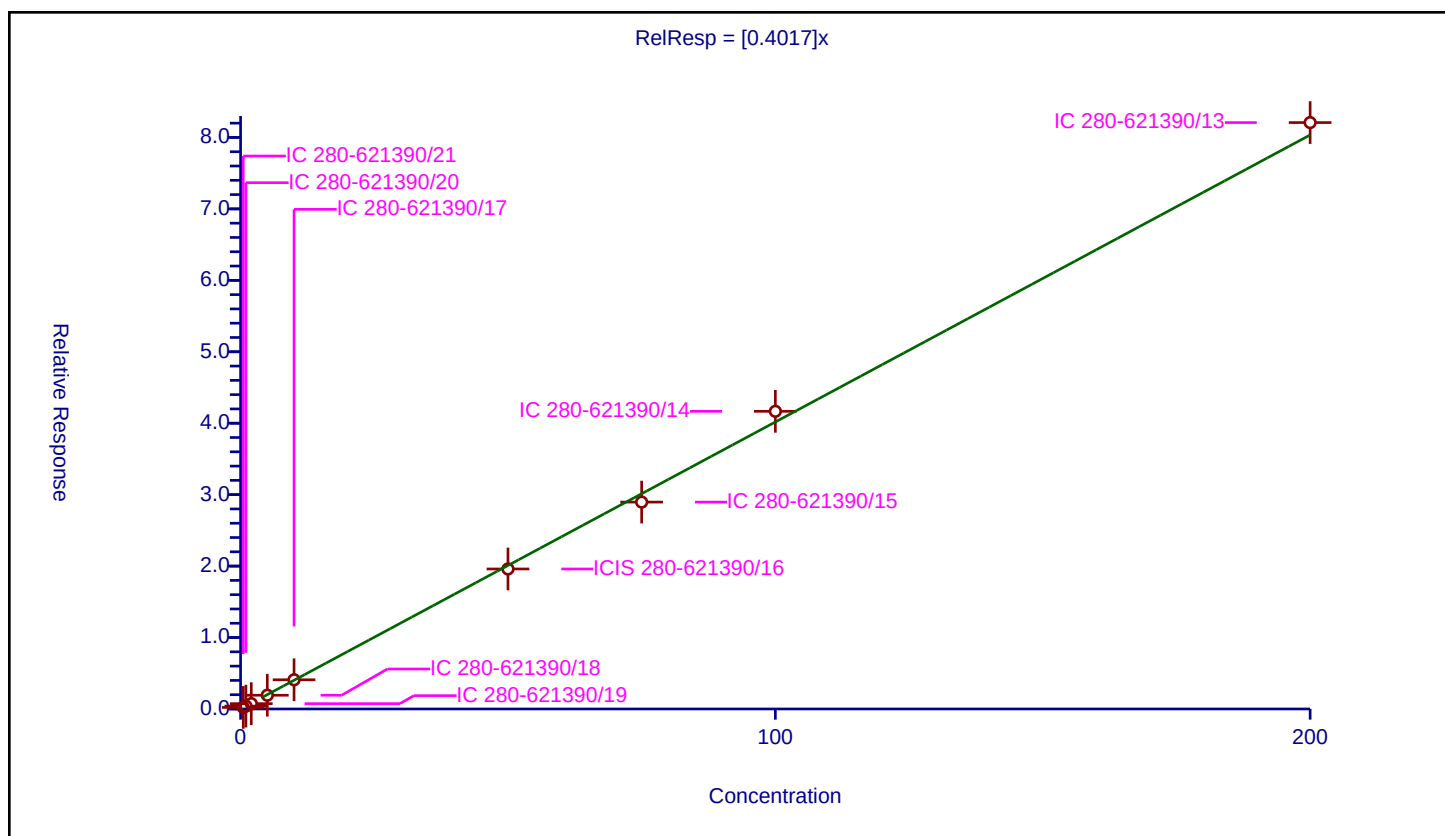
Curve Coefficients

Intercept: 0
 Slope: 0.4017

Error Coefficients

Standard Error: 1380000
 Relative Standard Error: 4.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.21799	50.0	1827609.0	0.435979	Y
2	IC 280-621390/20	1.0	0.406326	50.0	1846303.0	0.406326	Y
3	IC 280-621390/19	2.0	0.748634	50.0	1932187.0	0.374317	Y
4	IC 280-621390/18	5.0	1.924857	50.0	1896972.0	0.384971	Y
5	IC 280-621390/17	10.0	4.088077	50.0	1925233.0	0.408808	Y
6	ICIS 280-621390/16	50.0	19.599336	50.0	2001055.0	0.391987	Y
7	IC 280-621390/15	75.0	28.957936	50.0	1975493.0	0.386106	Y
8	IC 280-621390/14	100.0	41.666045	50.0	1985012.0	0.41666	Y
9	IC 280-621390/13	200.0	82.081518	50.0	1973281.0	0.410408	Y



Calibration

/ sec-Butyl Alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

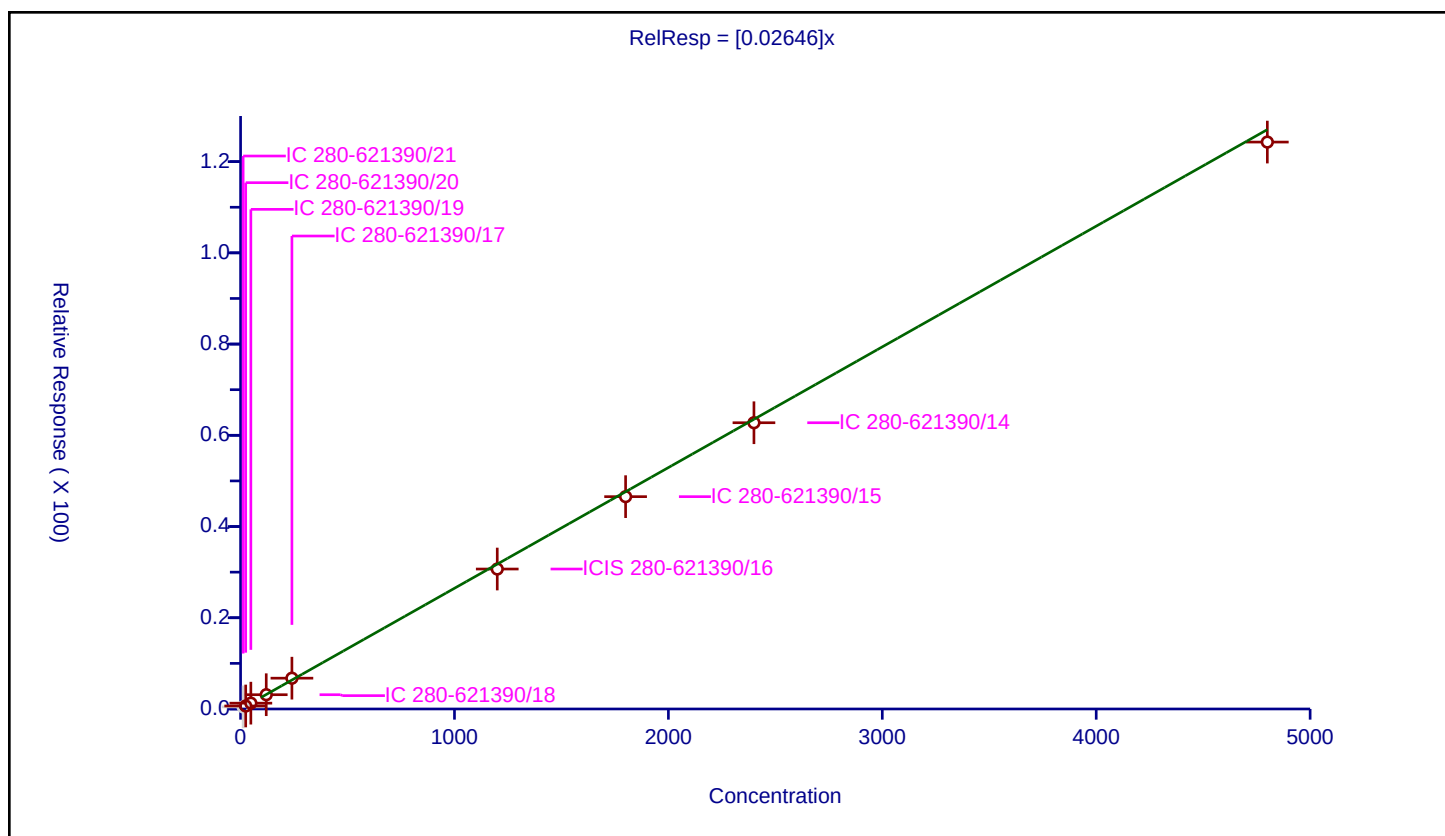
Curve Coefficients

Intercept: 0
Slope: 0.02646

Error Coefficients

Standard Error: 2240000
Relative Standard Error: 3.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	12.0	0.467578	50.0	1827609.0	0.038965	N
2	IC 280-621390/20	24.0	0.656907	50.0	1846303.0	0.027371	Y
3	IC 280-621390/19	48.0	1.279767	50.0	1932187.0	0.026662	Y
4	IC 280-621390/18	120.0	3.127985	50.0	1896972.0	0.026067	Y
5	IC 280-621390/17	240.0	6.752378	50.0	1925233.0	0.028135	Y
6	ICIS 280-621390/16	1200.0	30.682365	50.0	2001055.0	0.025569	Y
7	IC 280-621390/15	1800.0	46.550431	50.0	1975493.0	0.025861	Y
8	IC 280-621390/14	2400.0	62.757883	50.0	1985012.0	0.026149	Y
9	IC 280-621390/13	4800.0	124.290205	50.0	1973281.0	0.025894	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

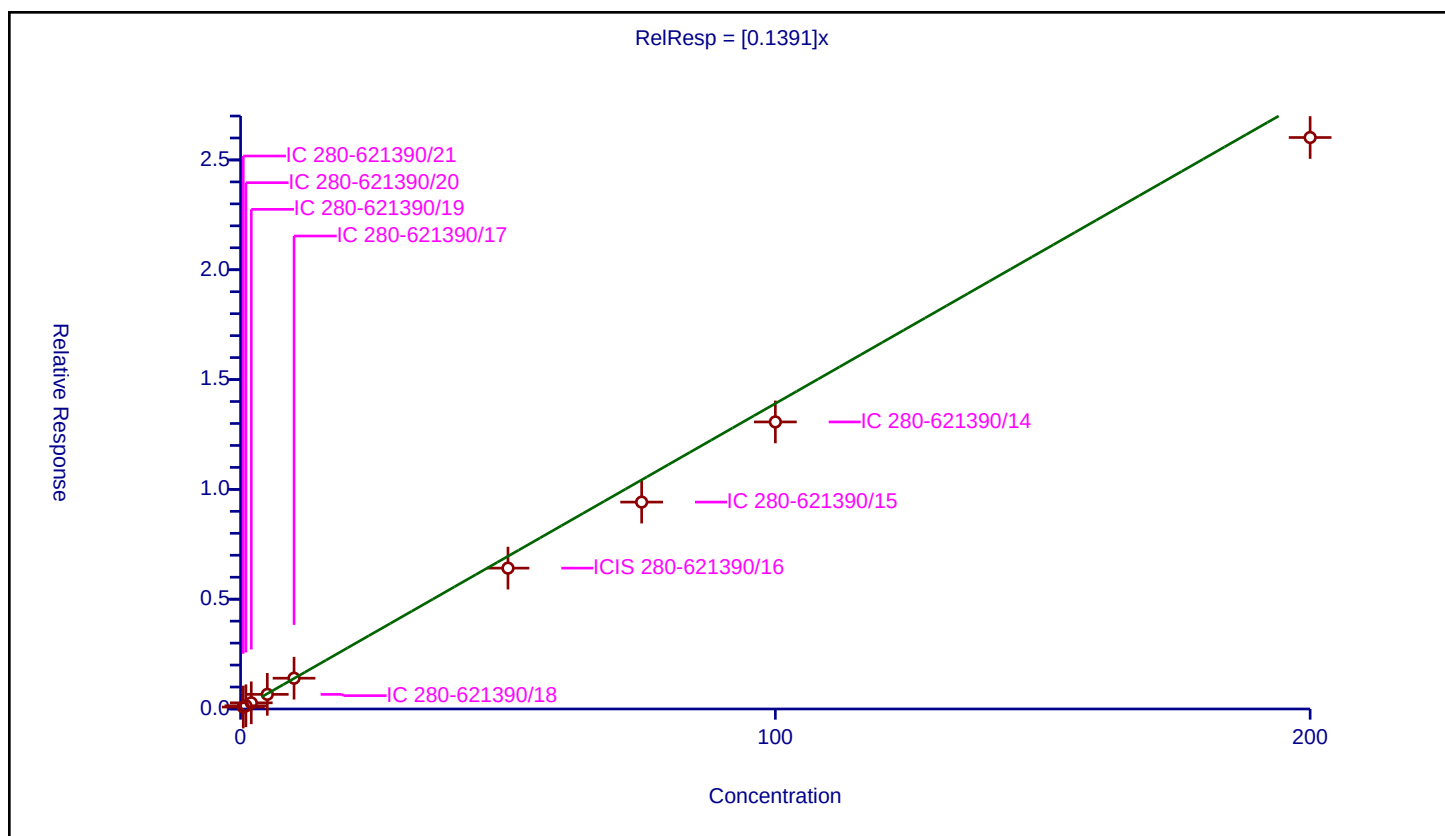
Curve Coefficients

Intercept: 0
Slope: 0.1391

Error Coefficients

Standard Error: 438000
Relative Standard Error: 11.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.08823	50.0	1827609.0	0.17646	Y
2	IC 280-621390/20	1.0	0.14659	50.0	1846303.0	0.14659	Y
3	IC 280-621390/19	2.0	0.281313	50.0	1932187.0	0.140657	Y
4	IC 280-621390/18	5.0	0.666167	50.0	1896972.0	0.133233	Y
5	IC 280-621390/17	10.0	1.4017	50.0	1925233.0	0.14017	Y
6	ICIS 280-621390/16	50.0	6.414042	50.0	2001055.0	0.128281	Y
7	IC 280-621390/15	75.0	9.420509	50.0	1975493.0	0.125607	Y
8	IC 280-621390/14	100.0	13.070979	50.0	1985012.0	0.13071	Y
9	IC 280-621390/13	200.0	26.021155	50.0	1973281.0	0.130106	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

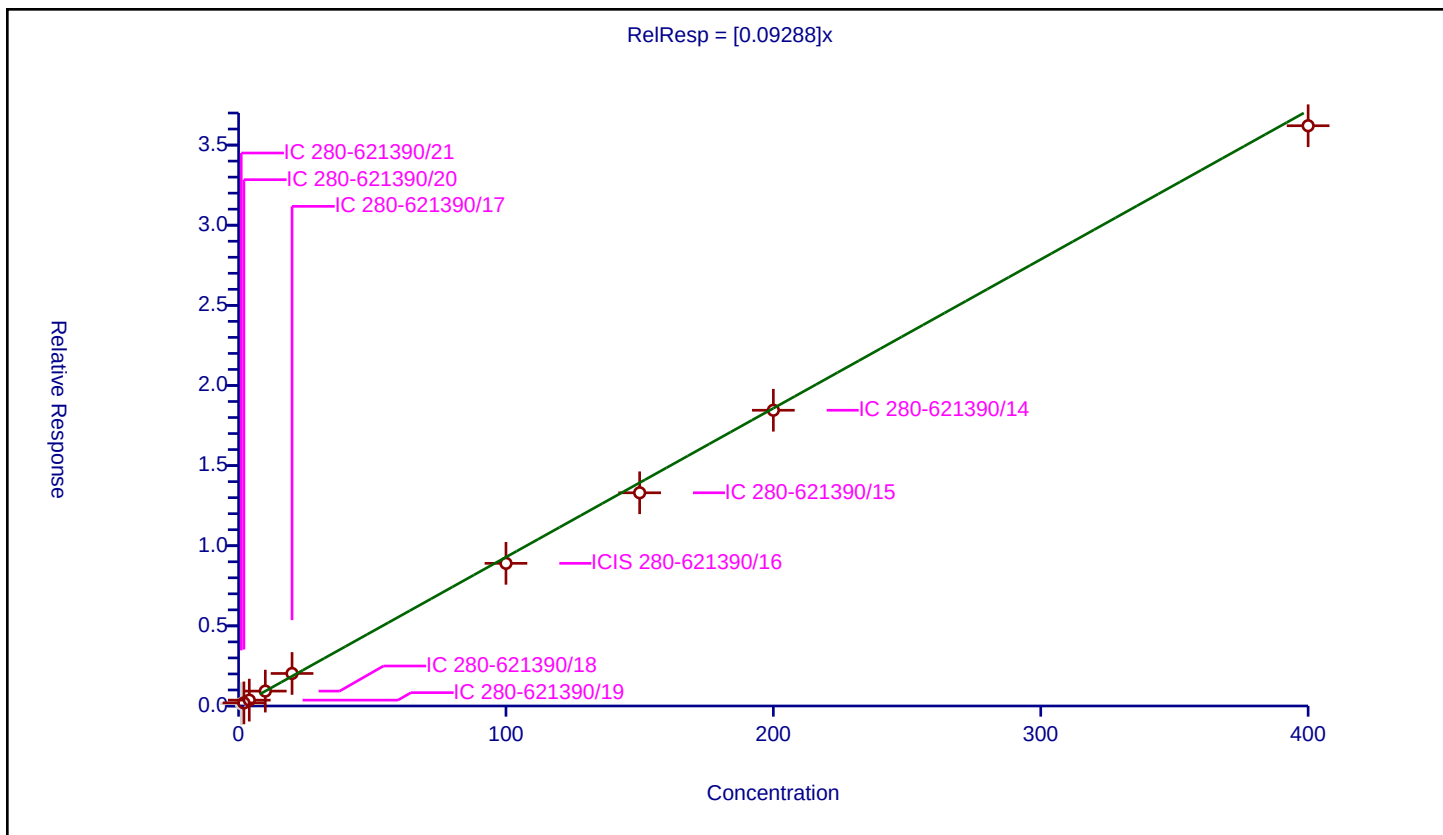
Curve Coefficients

Intercept: 0
Slope: 0.09288

Error Coefficients

Standard Error: 653000
Relative Standard Error: 4.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	1.0	0.144041	50.0	1827609.0	0.144041	N
2	IC 280-621390/20	2.0	0.193441	50.0	1846303.0	0.09672	Y
3	IC 280-621390/19	4.0	0.366036	50.0	1932187.0	0.091509	Y
4	IC 280-621390/18	10.0	0.928743	50.0	1896972.0	0.092874	Y
5	IC 280-621390/17	20.0	2.028845	50.0	1925233.0	0.101442	Y
6	ICIS 280-621390/16	100.0	8.90103	50.0	2001055.0	0.08901	Y
7	IC 280-621390/15	150.0	13.303363	50.0	1975493.0	0.088689	Y
8	IC 280-621390/14	200.0	18.453138	50.0	1985012.0	0.092266	Y
9	IC 280-621390/13	400.0	36.206425	50.0	1973281.0	0.090516	Y



Calibration

/ Chloroform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

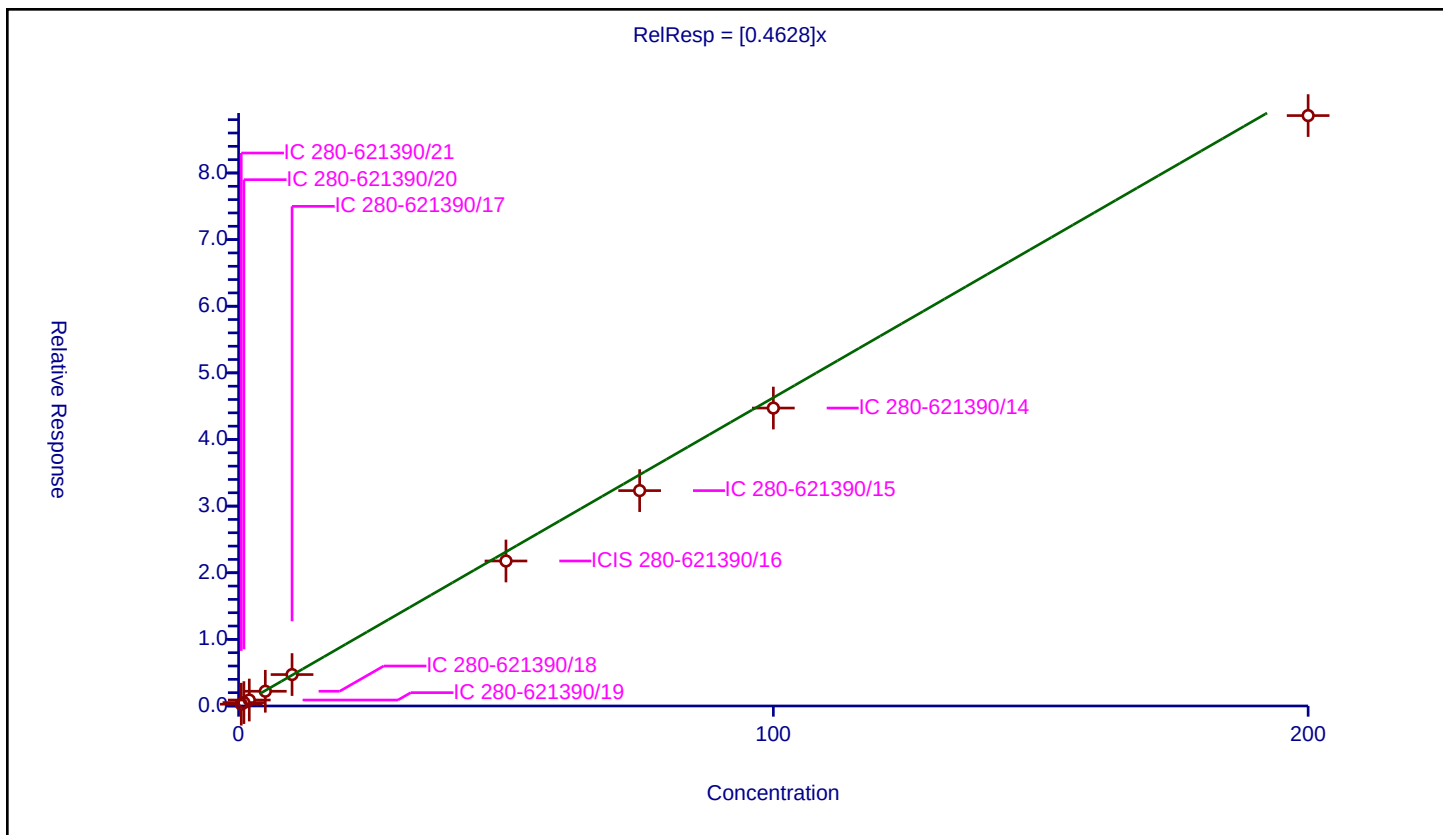
Curve Coefficients

Intercept: 0
Slope: 0.4628

Error Coefficients

Standard Error: 1490000
Relative Standard Error: 7.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.268602	50.0	1827609.0	0.537205	Y
2	IC 280-621390/20	1.0	0.509342	50.0	1846303.0	0.509342	Y
3	IC 280-621390/19	2.0	0.896238	50.0	1932187.0	0.448119	Y
4	IC 280-621390/18	5.0	2.211155	50.0	1896972.0	0.442231	Y
5	IC 280-621390/17	10.0	4.715377	50.0	1925233.0	0.471538	Y
6	ICIS 280-621390/16	50.0	21.764619	50.0	2001055.0	0.435292	Y
7	IC 280-621390/15	75.0	32.324134	50.0	1975493.0	0.430988	Y
8	IC 280-621390/14	100.0	44.715926	50.0	1985012.0	0.447159	Y
9	IC 280-621390/13	200.0	88.61746	50.0	1973281.0	0.443087	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

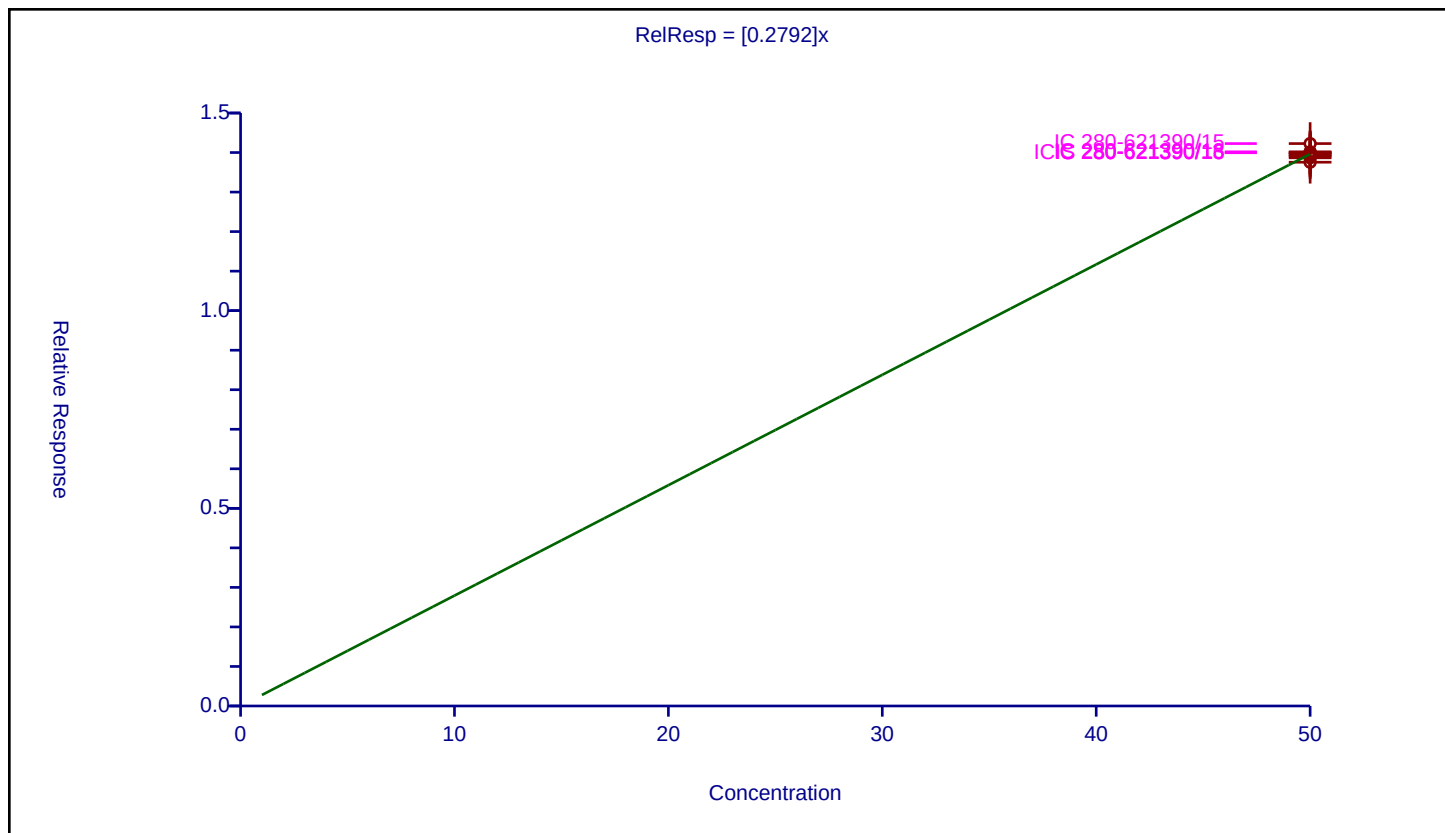
Curve Coefficients

Intercept: 0
Slope: 0.2792

Error Coefficients

Standard Error: 572000
Relative Standard Error: 0.9
Correlation Coefficient: NA
Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/13	50.0	13.996587	50.0	1973281.0	0.279932	Y
2	IC 280-621390/14	50.0	13.935709	50.0	1985012.0	0.278714	Y
3	IC 280-621390/15	50.0	14.226803	50.0	1975493.0	0.284536	Y
4	ICIS 280-621390/16	50.0	13.995068	50.0	2001055.0	0.279901	Y
5	IC 280-621390/17	50.0	13.866633	50.0	1925233.0	0.277333	Y
6	IC 280-621390/18	50.0	14.018657	50.0	1896972.0	0.280373	Y
7	IC 280-621390/19	50.0	13.755708	50.0	1932187.0	0.275114	Y
8	IC 280-621390/20	50.0	13.959274	50.0	1846303.0	0.279185	Y
9	IC 280-621390/21	50.0	13.904807	50.0	1827609.0	0.278096	Y



Calibration

/ 1,1,1-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

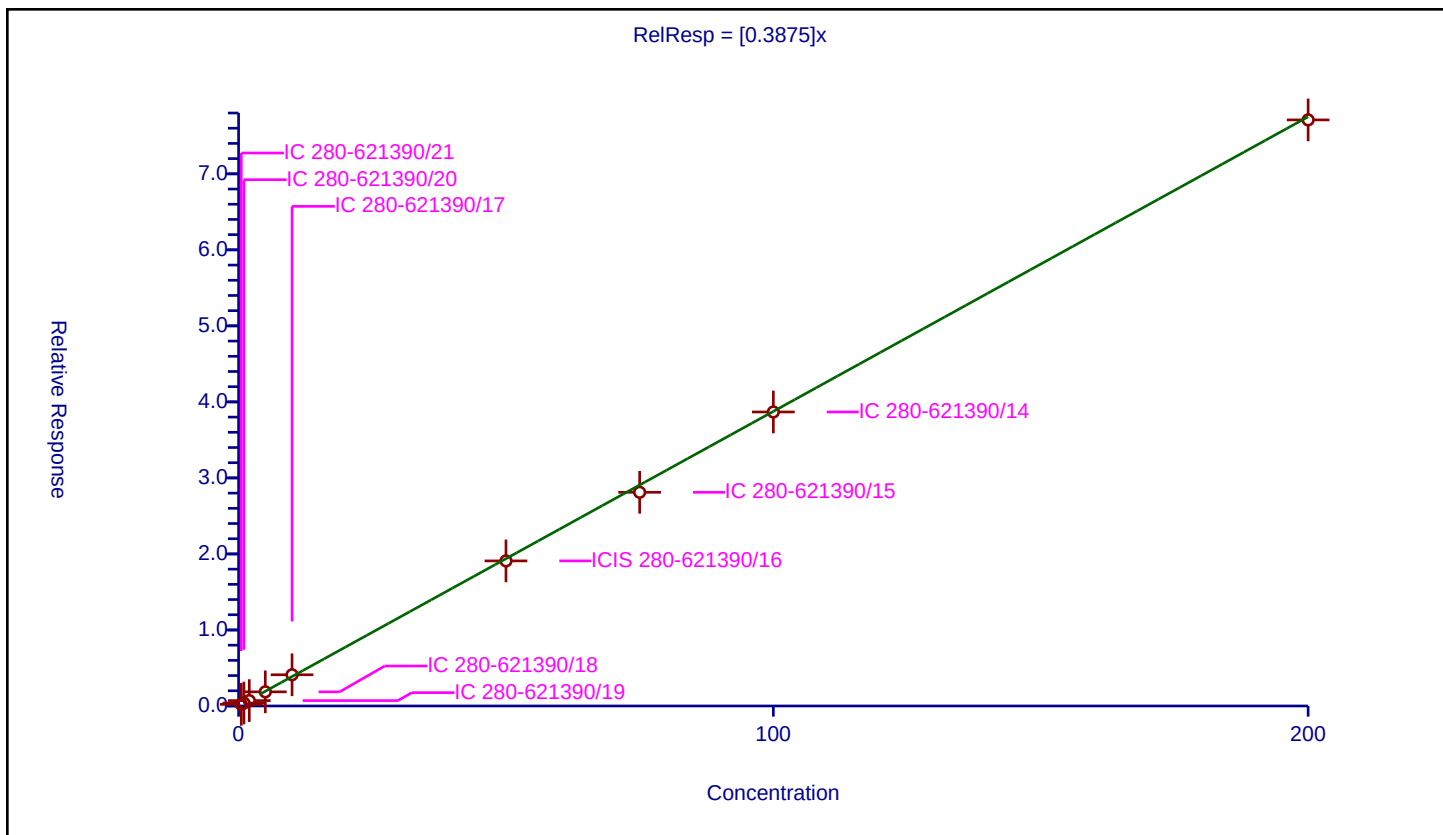
Curve Coefficients

Intercept: 0
Slope: 0.3875

Error Coefficients

Standard Error: 1300000
Relative Standard Error: 5.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.216321	50.0	1827609.0	0.432642	Y
2	IC 280-621390/20	1.0	0.388425	50.0	1846303.0	0.388425	Y
3	IC 280-621390/19	2.0	0.710024	50.0	1932187.0	0.355012	Y
4	IC 280-621390/18	5.0	1.861888	50.0	1896972.0	0.372378	Y
5	IC 280-621390/17	10.0	4.105867	50.0	1925233.0	0.410587	Y
6	ICIS 280-621390/16	50.0	19.083433	50.0	2001055.0	0.381669	Y
7	IC 280-621390/15	75.0	28.110122	50.0	1975493.0	0.374802	Y
8	IC 280-621390/14	100.0	38.6743	50.0	1985012.0	0.386743	Y
9	IC 280-621390/13	200.0	77.093936	50.0	1973281.0	0.38547	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

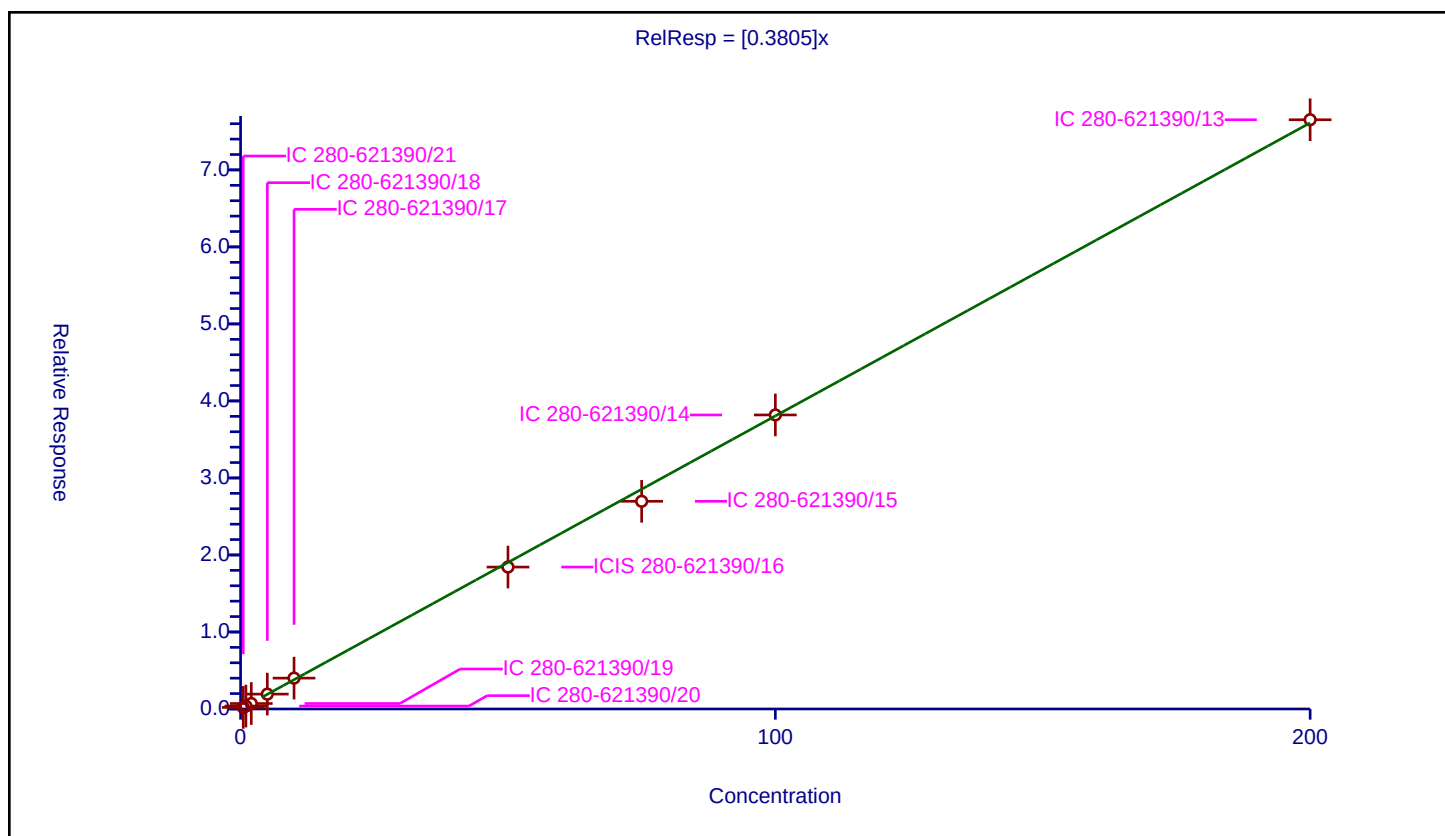
Curve Coefficients

Intercept: 0
Slope: 0.3805

Error Coefficients

Standard Error: 1280000
Relative Standard Error: 4.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.205706	50.0	1827609.0	0.411412	Y
2	IC 280-621390/20	1.0	0.377457	50.0	1846303.0	0.377457	Y
3	IC 280-621390/19	2.0	0.712172	50.0	1932187.0	0.356086	Y
4	IC 280-621390/18	5.0	1.932079	50.0	1896972.0	0.386416	Y
5	IC 280-621390/17	10.0	4.008995	50.0	1925233.0	0.4009	Y
6	ICIS 280-621390/16	50.0	18.429329	50.0	2001055.0	0.368587	Y
7	IC 280-621390/15	75.0	26.970306	50.0	1975493.0	0.359604	Y
8	IC 280-621390/14	100.0	38.18317	50.0	1985012.0	0.381832	Y
9	IC 280-621390/13	200.0	76.513786	50.0	1973281.0	0.382569	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

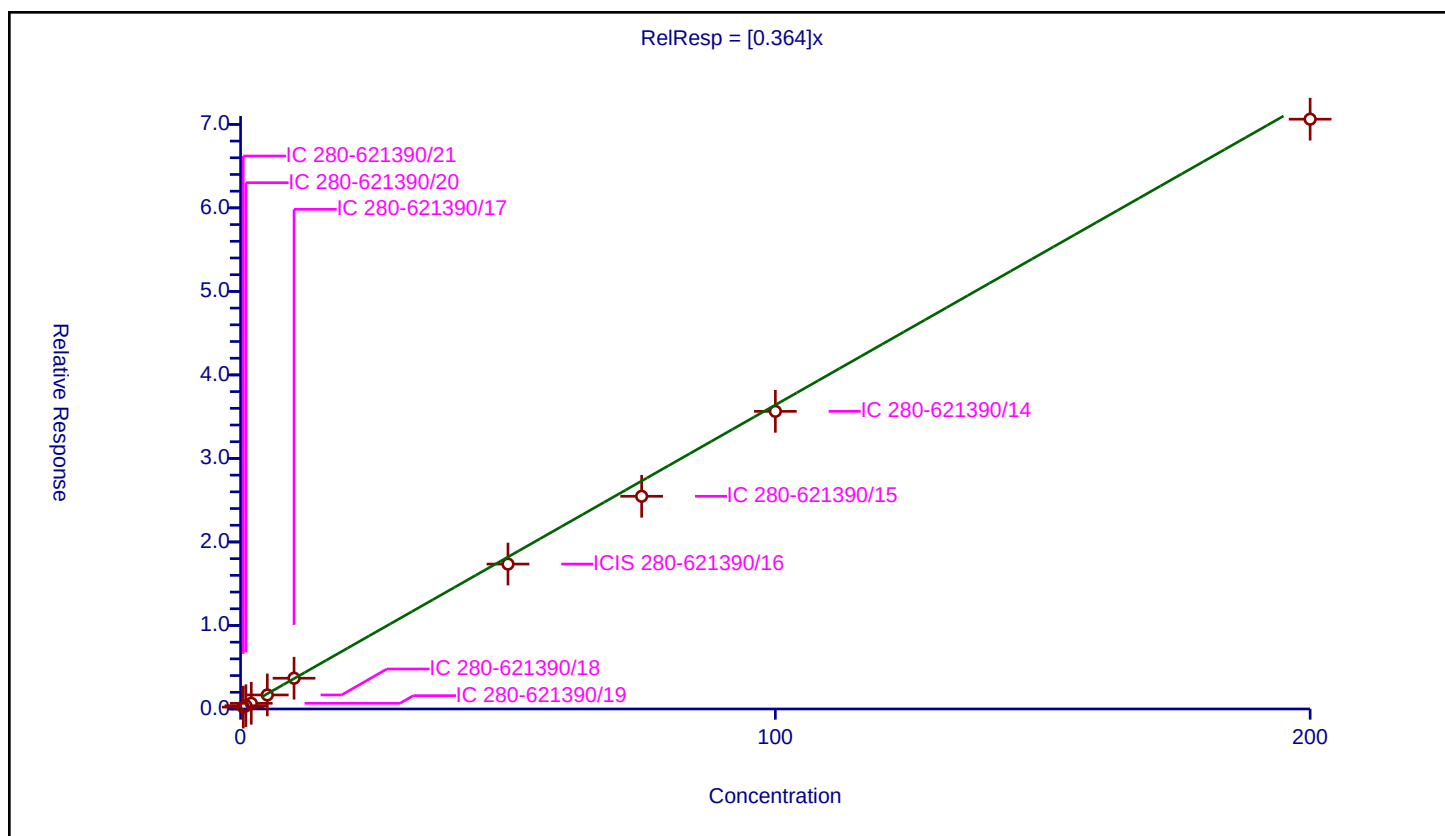
Curve Coefficients

Intercept: 0
Slope: 0.364

Error Coefficients

Standard Error: 1190000
Relative Standard Error: 9.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.222121	50.0	1827609.0	0.444242	Y
2	IC 280-621390/20	1.0	0.389806	50.0	1846303.0	0.389806	Y
3	IC 280-621390/19	2.0	0.682931	50.0	1932187.0	0.341465	Y
4	IC 280-621390/18	5.0	1.682418	50.0	1896972.0	0.336484	Y
5	IC 280-621390/17	10.0	3.683165	50.0	1925233.0	0.368316	Y
6	ICIS 280-621390/16	50.0	17.350548	50.0	2001055.0	0.347011	Y
7	IC 280-621390/15	75.0	25.46868	50.0	1975493.0	0.339582	Y
8	IC 280-621390/14	100.0	35.639104	50.0	1985012.0	0.356391	Y
9	IC 280-621390/13	200.0	70.619491	50.0	1973281.0	0.353097	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

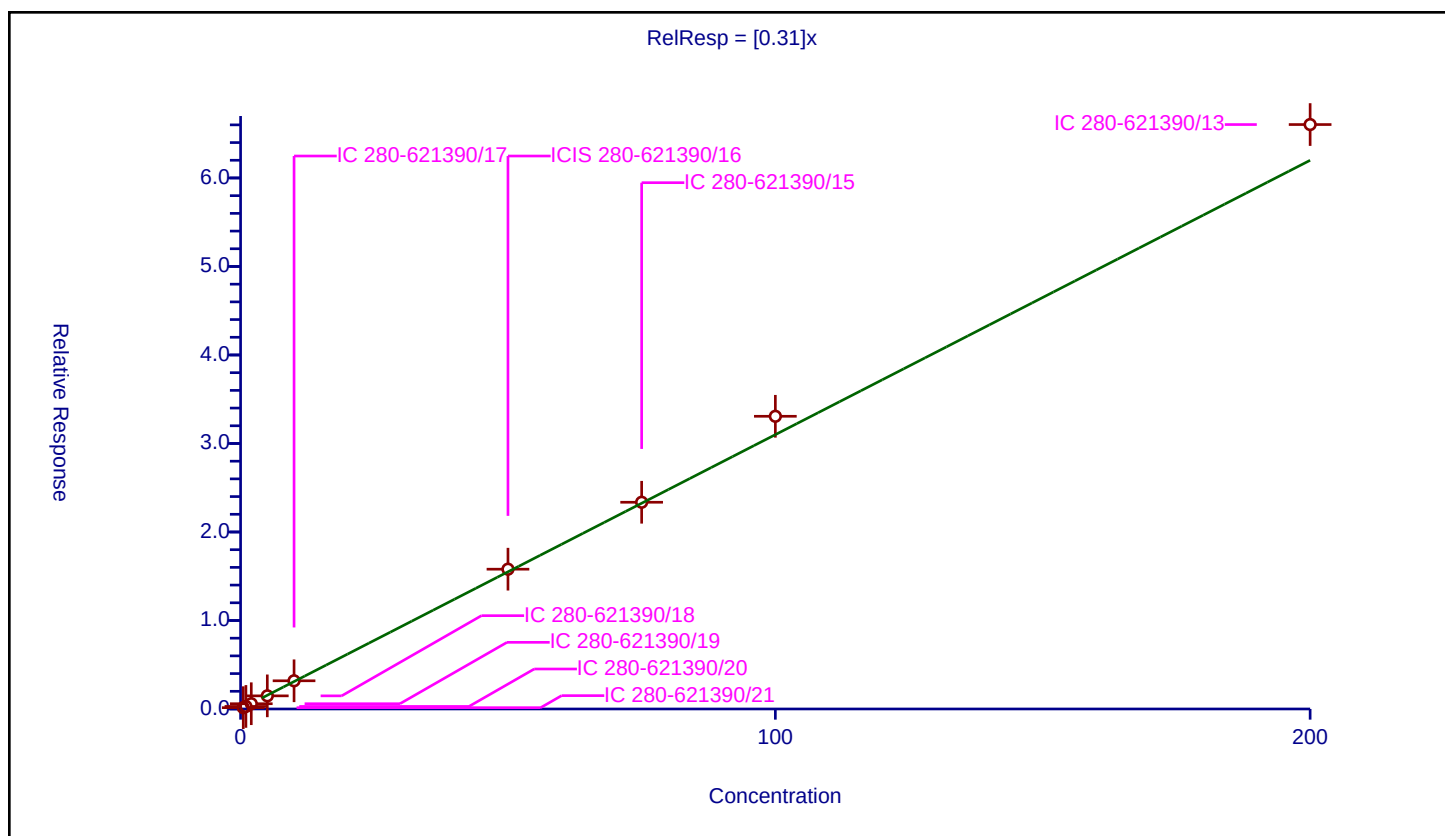
Curve Coefficients

Intercept: 0
 Slope: 0.31

Error Coefficients

Standard Error: 1110000
 Relative Standard Error: 4.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.150032	50.0	1827609.0	0.300064	Y
2	IC 280-621390/20	1.0	0.289227	50.0	1846303.0	0.289227	Y
3	IC 280-621390/19	2.0	0.593861	50.0	1932187.0	0.29693	Y
4	IC 280-621390/18	5.0	1.483232	50.0	1896972.0	0.296646	Y
5	IC 280-621390/17	10.0	3.185952	50.0	1925233.0	0.318595	Y
6	ICIS 280-621390/16	50.0	15.796917	50.0	2001055.0	0.315938	Y
7	IC 280-621390/15	75.0	23.357866	50.0	1975493.0	0.311438	Y
8	IC 280-621390/14	100.0	33.072974	50.0	1985012.0	0.33073	Y
9	IC 280-621390/13	200.0	66.036363	50.0	1973281.0	0.330182	Y



Calibration

/ Isobutyl alcohol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

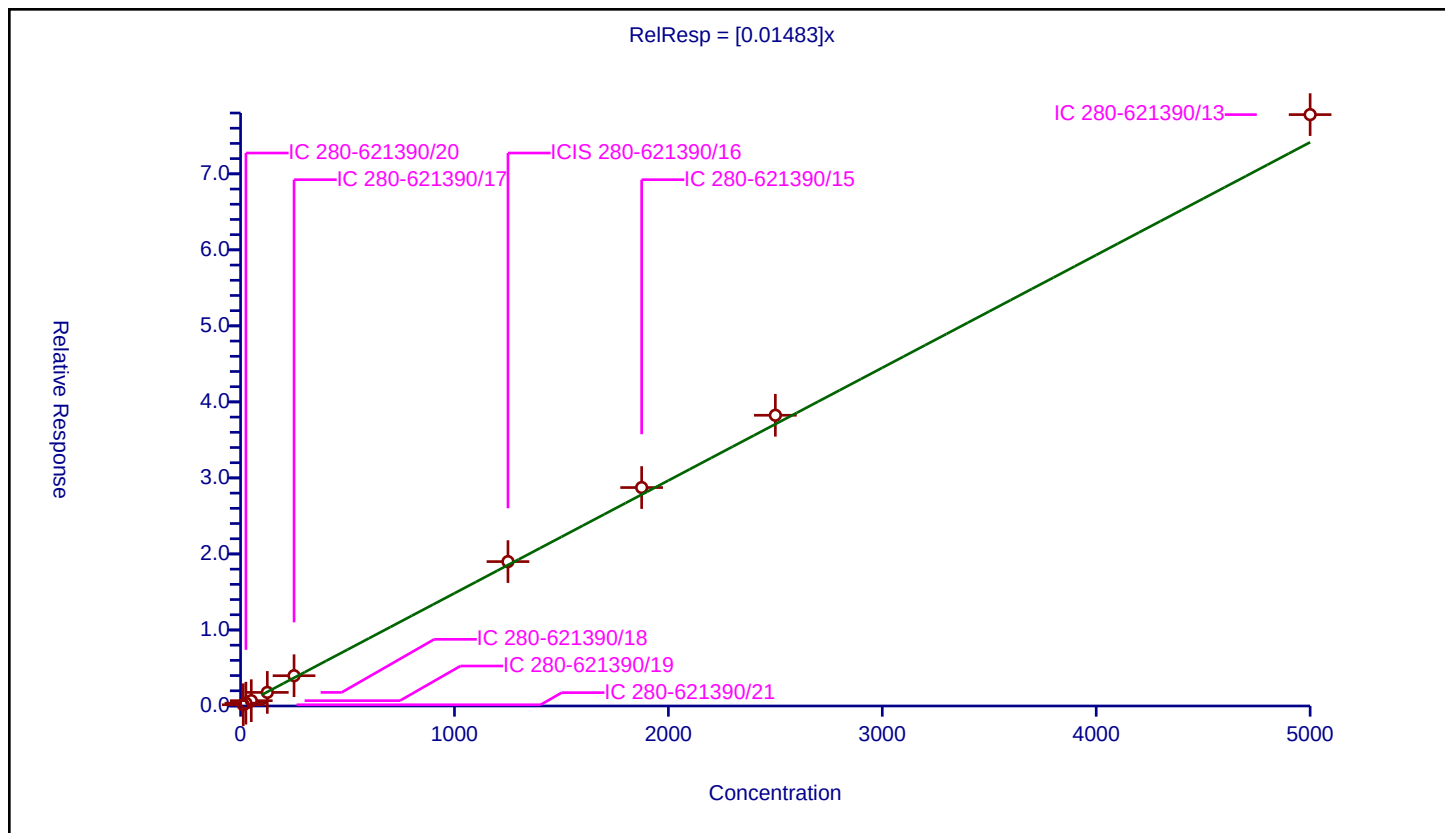
Curve Coefficients

Intercept: 0
 Slope: 0.01483

Error Coefficients

Standard Error: 1310000
 Relative Standard Error: 6.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	12.5	0.162808	50.0	1827609.0	0.013025	Y
2	IC 280-621390/20	25.0	0.371499	50.0	1846303.0	0.01486	Y
3	IC 280-621390/19	50.0	0.699466	50.0	1932187.0	0.013989	Y
4	IC 280-621390/18	125.0	1.787559	50.0	1896972.0	0.0143	Y
5	IC 280-621390/17	250.0	3.981492	50.0	1925233.0	0.015926	Y
6	ICIS 280-621390/16	1250.0	18.991007	50.0	2001055.0	0.015193	Y
7	IC 280-621390/15	1875.0	28.732701	50.0	1975493.0	0.015324	Y
8	IC 280-621390/14	2500.0	38.243547	50.0	1985012.0	0.015297	Y
9	IC 280-621390/13	5000.0	77.788364	50.0	1973281.0	0.015558	Y



Calibration

/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

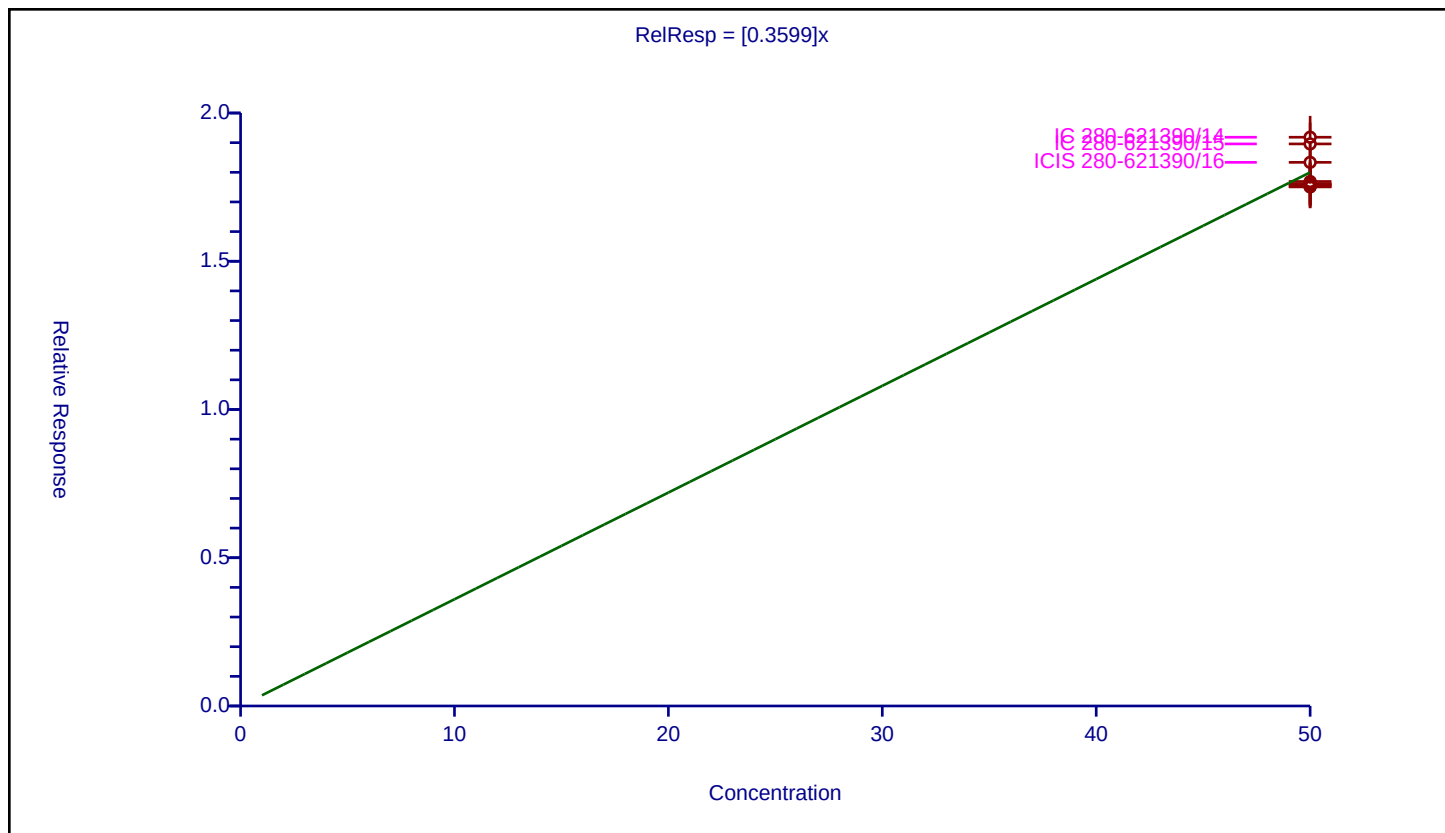
Curve Coefficients

Intercept: 0
 Slope: 0.3599

Error Coefficients

Standard Error: 738000
 Relative Standard Error: 3.7
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/13	50.0	17.521985	50.0	1973281.0	0.35044	Y
2	IC 280-621390/14	50.0	19.182982	50.0	1985012.0	0.38366	Y
3	IC 280-621390/15	50.0	18.957572	50.0	1975493.0	0.379151	Y
4	ICIS 280-621390/16	50.0	18.335778	50.0	2001055.0	0.366716	Y
5	IC 280-621390/17	50.0	17.606622	50.0	1925233.0	0.352132	Y
6	IC 280-621390/18	50.0	17.690377	50.0	1896972.0	0.353808	Y
7	IC 280-621390/19	50.0	17.605827	50.0	1932187.0	0.352117	Y
8	IC 280-621390/20	50.0	17.507771	50.0	1846303.0	0.350155	Y
9	IC 280-621390/21	50.0	17.567707	50.0	1827609.0	0.351354	Y



Calibration

/ Benzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

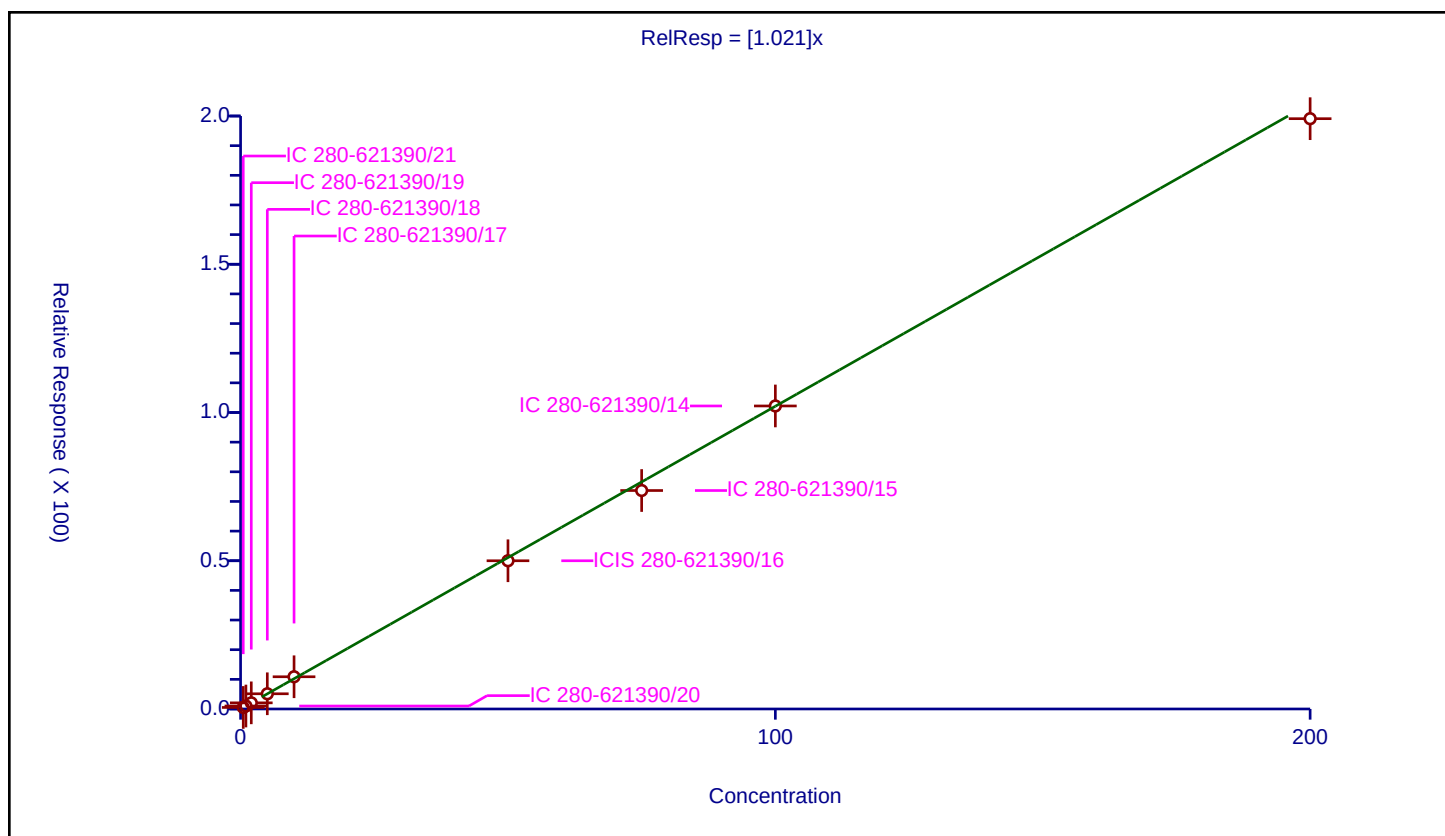
Curve Coefficients

Intercept: 0
Slope: 1.021

Error Coefficients

Standard Error: 3370000
Relative Standard Error: 3.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.518218	50.0	1827609.0	1.036436	Y
2	IC 280-621390/20	1.0	1.002002	50.0	1846303.0	1.002002	Y
3	IC 280-621390/19	2.0	2.076895	50.0	1932187.0	1.038448	Y
4	IC 280-621390/18	5.0	5.129833	50.0	1896972.0	1.025967	Y
5	IC 280-621390/17	10.0	10.871931	50.0	1925233.0	1.087193	Y
6	ICIS 280-621390/16	50.0	49.992954	50.0	2001055.0	0.999859	Y
7	IC 280-621390/15	75.0	73.685607	50.0	1975493.0	0.982475	Y
8	IC 280-621390/14	100.0	102.20704	50.0	1985012.0	1.02207	Y
9	IC 280-621390/13	200.0	199.098811	50.0	1973281.0	0.995494	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

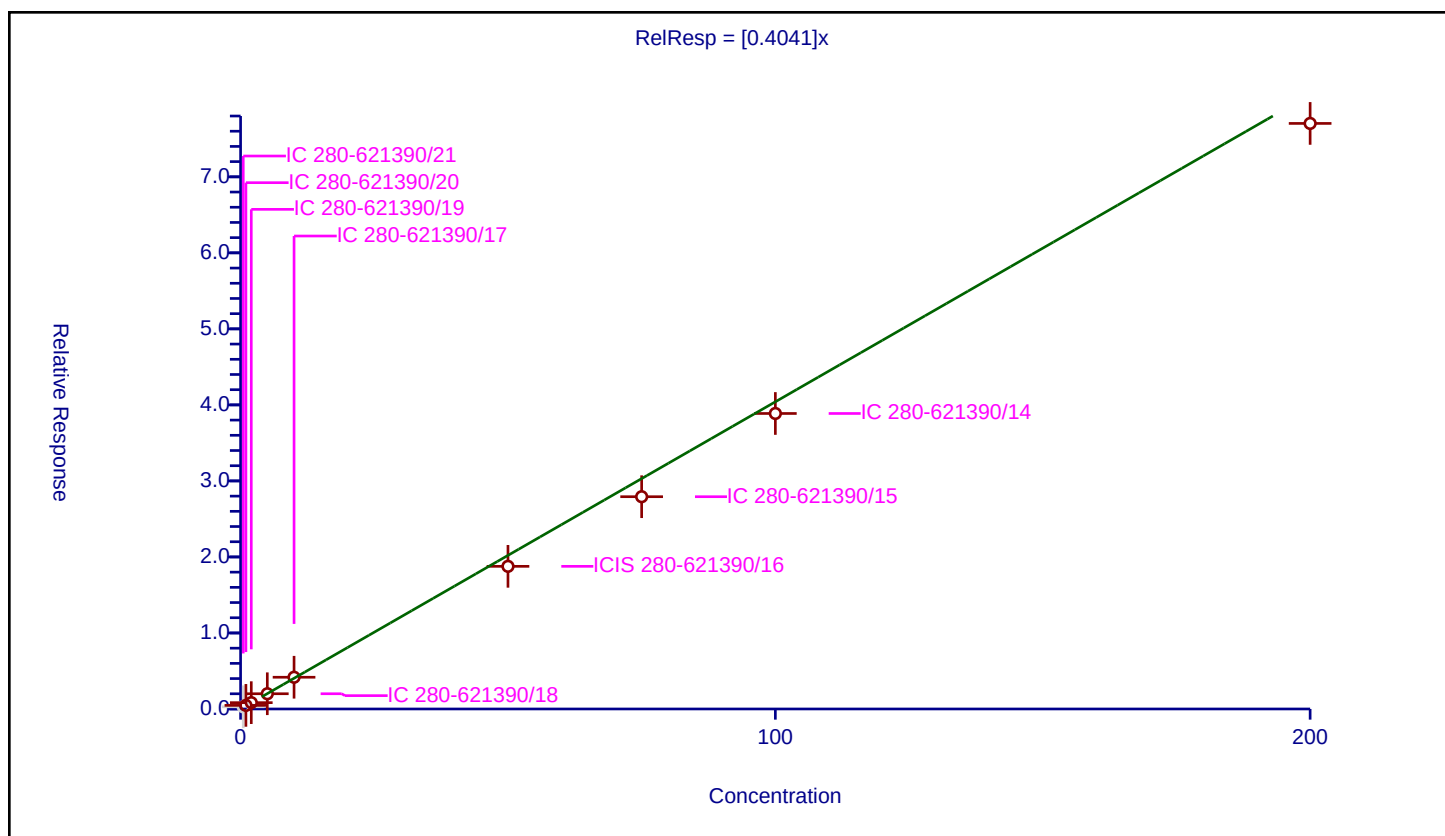
Curve Coefficients

Intercept: 0
 Slope: 0.4041

Error Coefficients

Standard Error: 1390000
 Relative Standard Error: 8.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.289914	50.0	1827609.0	0.579829	N
2	IC 280-621390/20	1.0	0.476087	50.0	1846303.0	0.476087	Y
3	IC 280-621390/19	2.0	0.833434	50.0	1932187.0	0.416717	Y
4	IC 280-621390/18	5.0	2.004484	50.0	1896972.0	0.400897	Y
5	IC 280-621390/17	10.0	4.175313	50.0	1925233.0	0.417531	Y
6	ICIS 280-621390/16	50.0	18.764327	50.0	2001055.0	0.375287	Y
7	IC 280-621390/15	75.0	27.922827	50.0	1975493.0	0.372304	Y
8	IC 280-621390/14	100.0	38.870269	50.0	1985012.0	0.388703	Y
9	IC 280-621390/13	200.0	77.024002	50.0	1973281.0	0.38512	Y



Calibration

/ n-Heptane

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

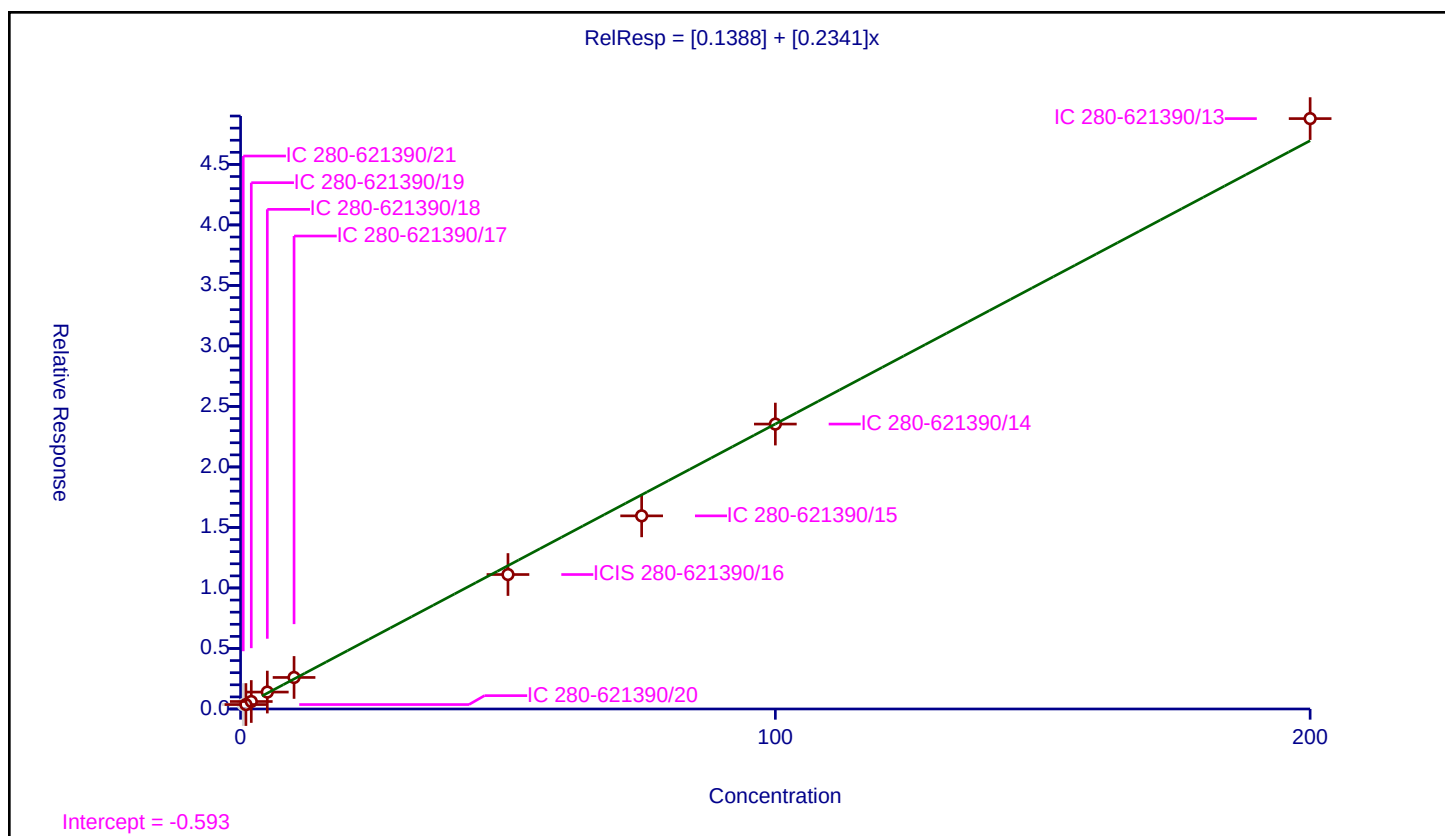
Curve Coefficients

Intercept: 0.1388
Slope: 0.2341

Error Coefficients

Standard Error: 930000
Relative Standard Error: 6.5
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.36649	50.0	1827609.0	0.73298	N
2	IC 280-621390/20	1.0	0.36592	50.0	1846303.0	0.36592	Y
3	IC 280-621390/19	2.0	0.618263	50.0	1932187.0	0.309132	Y
4	IC 280-621390/18	5.0	1.397807	50.0	1896972.0	0.279561	Y
5	IC 280-621390/17	10.0	2.605373	50.0	1925233.0	0.260537	Y
6	ICIS 280-621390/16	50.0	11.112038	50.0	2001055.0	0.222241	Y
7	IC 280-621390/15	75.0	15.958675	50.0	1975493.0	0.212782	Y
8	IC 280-621390/14	100.0	23.54351	50.0	1985012.0	0.235435	Y
9	IC 280-621390/13	200.0	48.787248	50.0	1973281.0	0.243936	Y



Calibration

/ Trichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

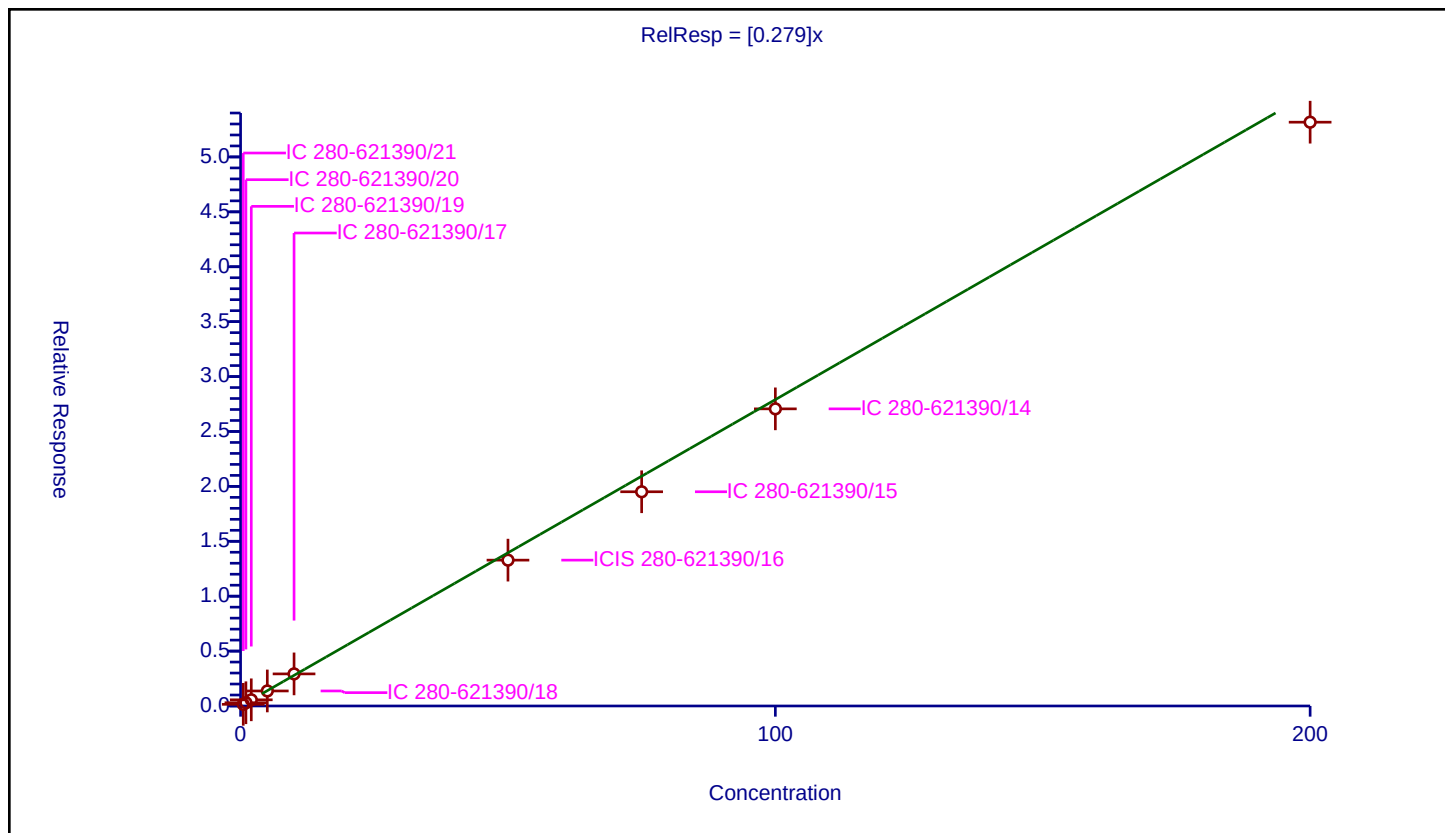
Curve Coefficients

Intercept: 0
Slope: 0.279

Error Coefficients

Standard Error: 898000
Relative Standard Error: 5.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.152686	50.0	1827609.0	0.305372	Y
2	IC 280-621390/20	1.0	0.295862	50.0	1846303.0	0.295862	Y
3	IC 280-621390/19	2.0	0.563325	50.0	1932187.0	0.281663	Y
4	IC 280-621390/18	5.0	1.369208	50.0	1896972.0	0.273842	Y
5	IC 280-621390/17	10.0	2.922529	50.0	1925233.0	0.292253	Y
6	ICIS 280-621390/16	50.0	13.283368	50.0	2001055.0	0.265667	Y
7	IC 280-621390/15	75.0	19.507637	50.0	1975493.0	0.260102	Y
8	IC 280-621390/14	100.0	27.057897	50.0	1985012.0	0.270579	Y
9	IC 280-621390/13	200.0	53.164146	50.0	1973281.0	0.265821	Y



Calibration

/ 2-Pentanone

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

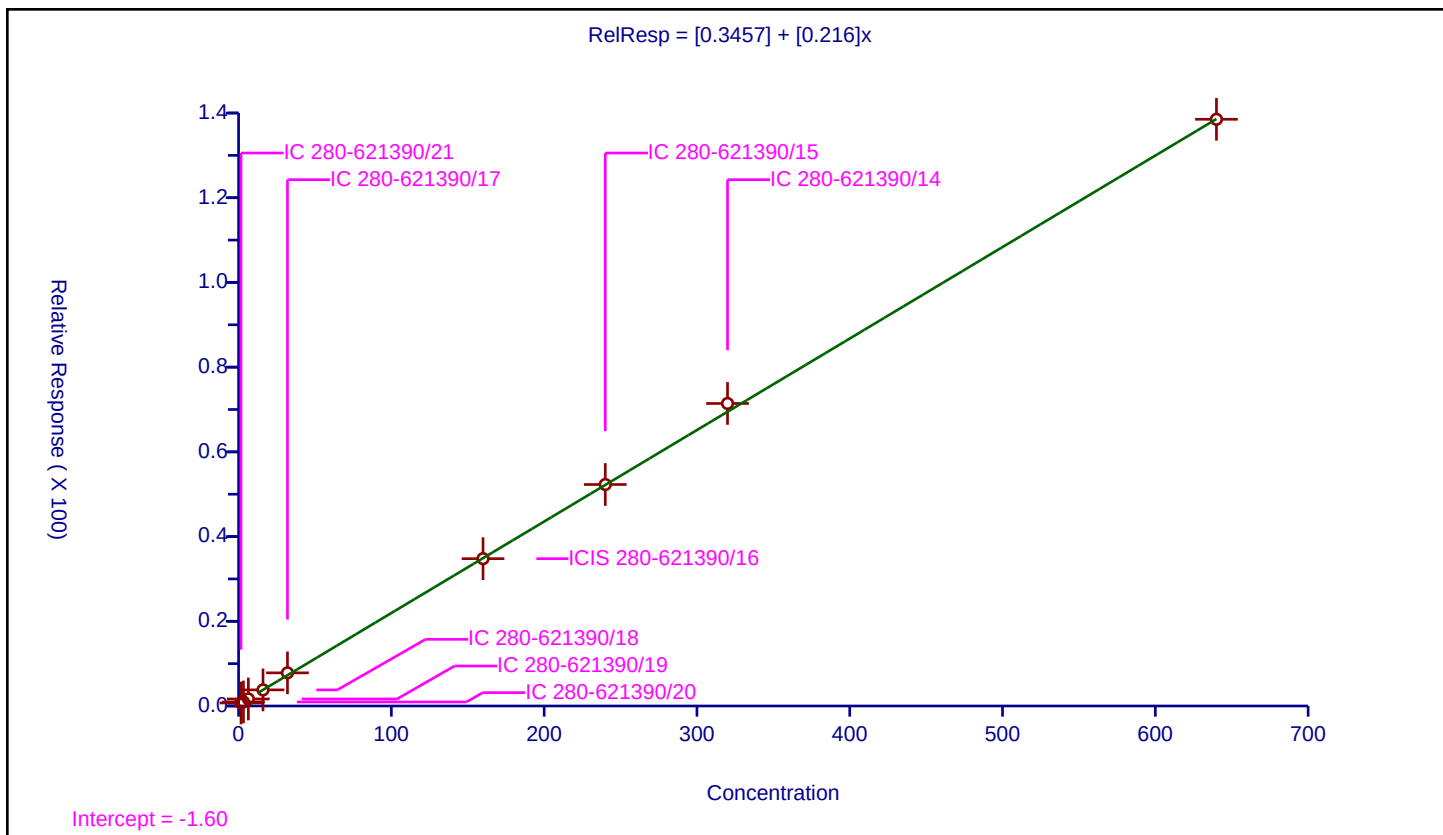
Curve Coefficients

Intercept: 0.3457
 Slope: 0.216

Error Coefficients

Standard Error: 2510000
 Relative Standard Error: 6.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	1.6	0.716866	50.0	1827609.0	0.448041	Y
2	IC 280-621390/20	3.2	0.946649	50.0	1846303.0	0.295828	Y
3	IC 280-621390/19	6.4	1.658276	50.0	1932187.0	0.259106	Y
4	IC 280-621390/18	16.0	3.800478	50.0	1896972.0	0.23753	Y
5	IC 280-621390/17	32.0	7.822274	50.0	1925233.0	0.244446	Y
6	ICIS 280-621390/16	160.0	34.783777	50.0	2001055.0	0.217399	Y
7	IC 280-621390/15	240.0	52.293731	50.0	1975493.0	0.217891	Y
8	IC 280-621390/14	320.0	71.425966	50.0	1985012.0	0.223206	Y
9	IC 280-621390/13	640.0	138.517854	50.0	1973281.0	0.216434	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

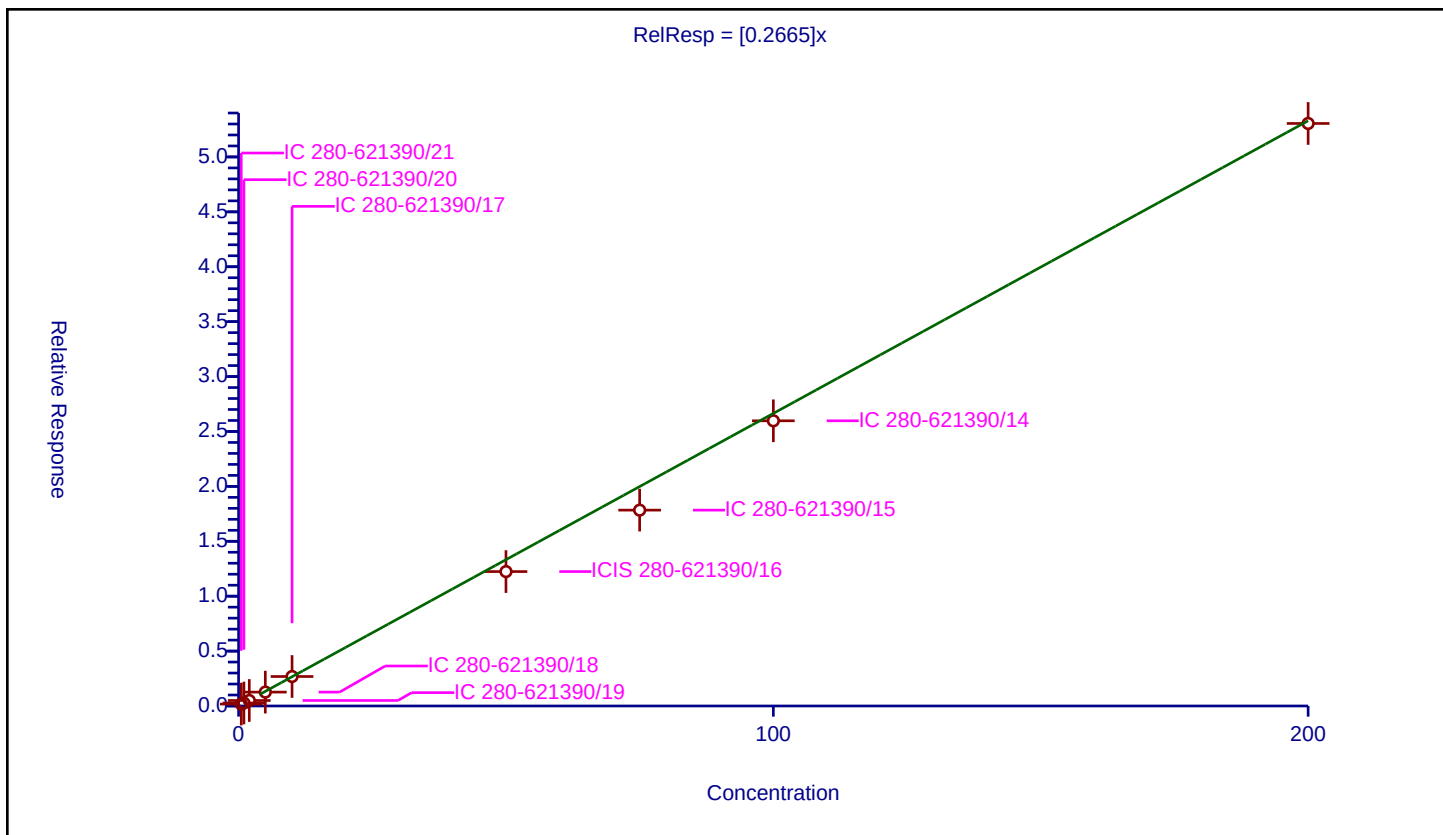
Curve Coefficients

Intercept: 0
 Slope: 0.2665

Error Coefficients

Standard Error: 880000
 Relative Standard Error: 12.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.174408	50.0	1827609.0	0.348816	Y
2	IC 280-621390/20	1.0	0.270107	50.0	1846303.0	0.270107	Y
3	IC 280-621390/19	2.0	0.500262	50.0	1932187.0	0.250131	Y
4	IC 280-621390/18	5.0	1.264858	50.0	1896972.0	0.252972	Y
5	IC 280-621390/17	10.0	2.684506	50.0	1925233.0	0.268451	Y
6	ICIS 280-621390/16	50.0	12.240243	50.0	2001055.0	0.244805	Y
7	IC 280-621390/15	75.0	17.836662	50.0	1975493.0	0.237822	Y
8	IC 280-621390/14	100.0	25.970246	50.0	1985012.0	0.259702	Y
9	IC 280-621390/13	200.0	53.049059	50.0	1973281.0	0.265245	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

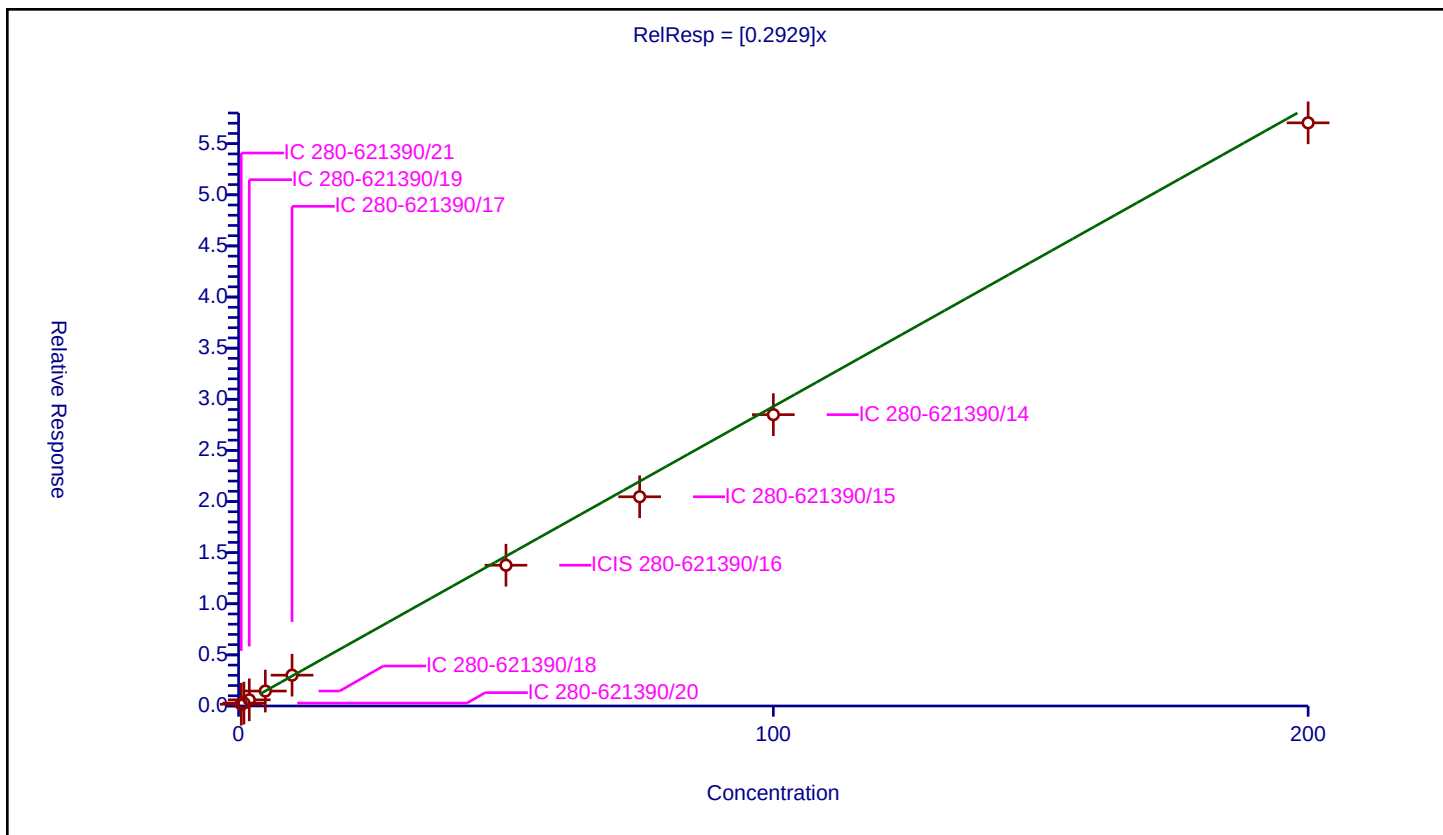
Curve Coefficients

Intercept: 0
 Slope: 0.2929

Error Coefficients

Standard Error: 957000
 Relative Standard Error: 6.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.169976	50.0	1827609.0	0.339952	Y
2	IC 280-621390/20	1.0	0.282781	50.0	1846303.0	0.282781	Y
3	IC 280-621390/19	2.0	0.603694	50.0	1932187.0	0.301847	Y
4	IC 280-621390/18	5.0	1.46154	50.0	1896972.0	0.292308	Y
5	IC 280-621390/17	10.0	3.012856	50.0	1925233.0	0.301286	Y
6	ICIS 280-621390/16	50.0	13.767338	50.0	2001055.0	0.275347	Y
7	IC 280-621390/15	75.0	20.464638	50.0	1975493.0	0.272862	Y
8	IC 280-621390/14	100.0	28.496503	50.0	1985012.0	0.284965	Y
9	IC 280-621390/13	200.0	57.040001	50.0	1973281.0	0.2852	Y



Calibration

/ 1,4-Dioxane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

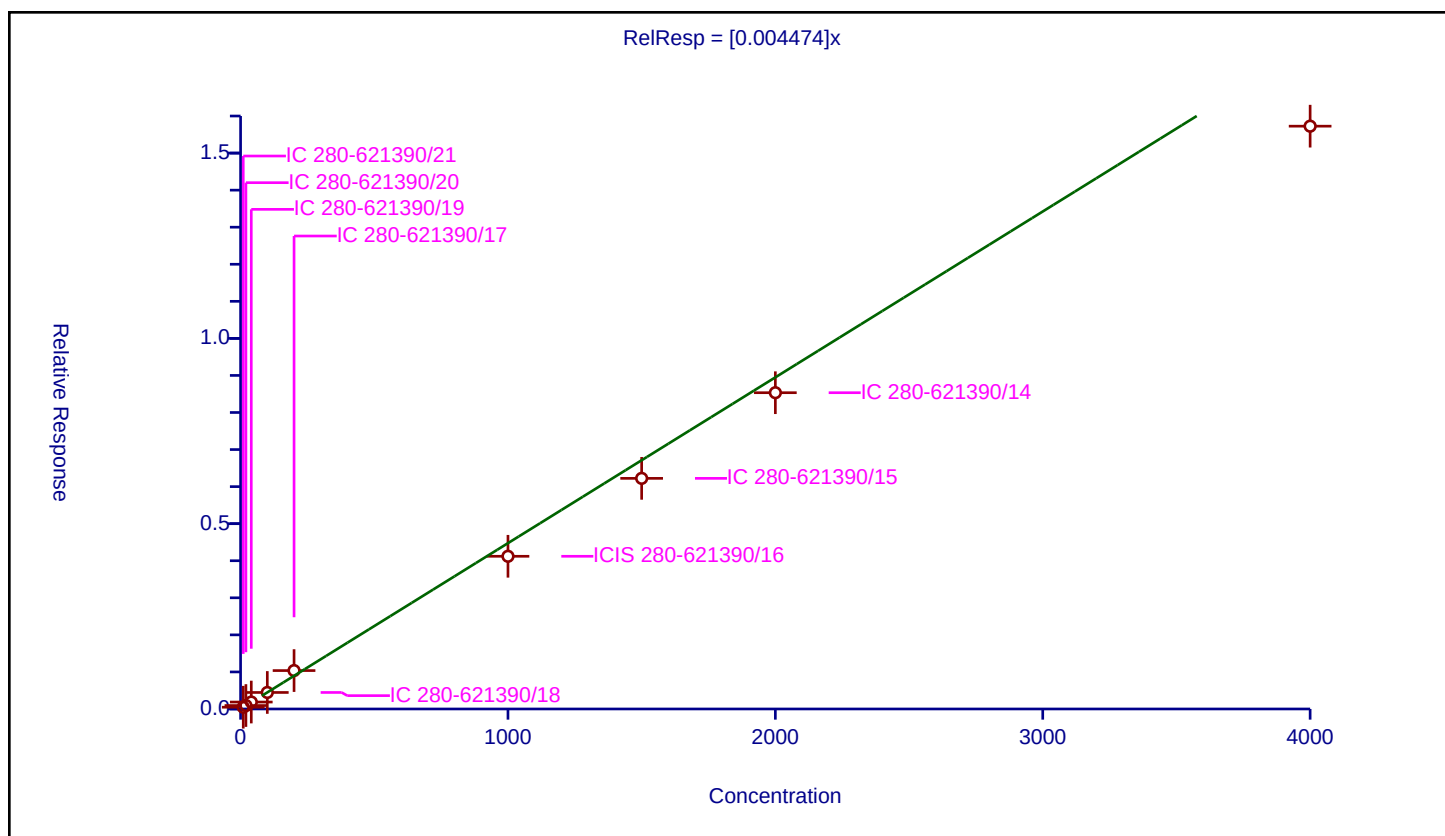
Curve Coefficients

Intercept: 0
Slope: 0.004474

Error Coefficients

Standard Error: 271000
Relative Standard Error: 8.9
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	10.0	0.048041	50.0	1827609.0	0.004804	Y
2	IC 280-621390/20	20.0	0.093403	50.0	1846303.0	0.00467	Y
3	IC 280-621390/19	40.0	0.187482	50.0	1932187.0	0.004687	Y
4	IC 280-621390/18	100.0	0.445763	50.0	1896972.0	0.004458	Y
5	IC 280-621390/17	200.0	1.036576	50.0	1925233.0	0.005183	Y
6	ICIS 280-621390/16	1000.0	4.120776	50.0	2001055.0	0.004121	Y
7	IC 280-621390/15	1500.0	6.223105	50.0	1975493.0	0.004149	Y
8	IC 280-621390/14	2000.0	8.534054	50.0	1985012.0	0.004267	Y
9	IC 280-621390/13	4000.0	15.725991	50.0	1973281.0	0.003931	Y



Calibration

/ Dibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

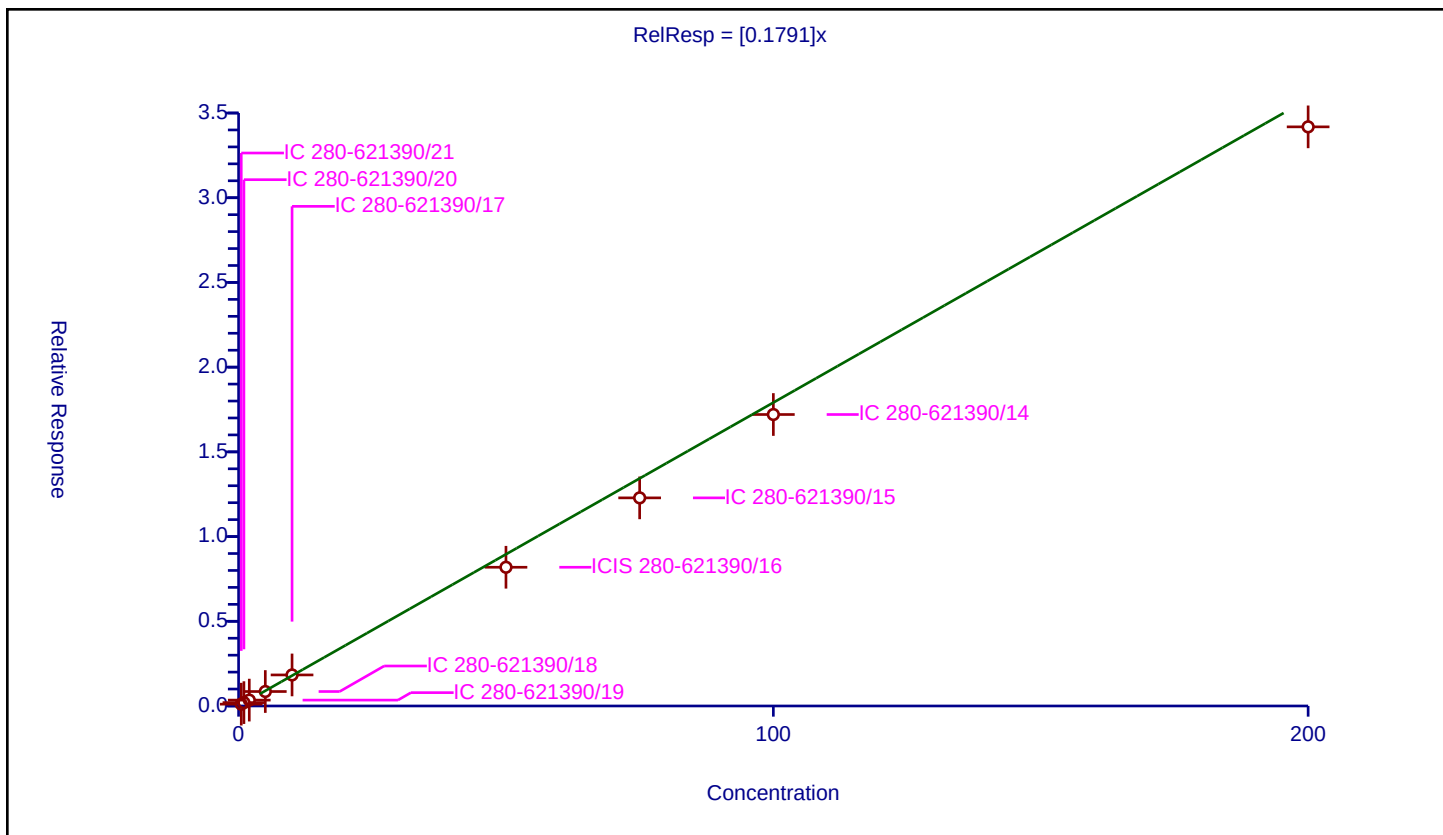
Curve Coefficients

Intercept: 0
 Slope: 0.1791

Error Coefficients

Standard Error: 574000
 Relative Standard Error: 9.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.107381	50.0	1827609.0	0.214761	Y
2	IC 280-621390/20	1.0	0.198586	50.0	1846303.0	0.198586	Y
3	IC 280-621390/19	2.0	0.347792	50.0	1932187.0	0.173896	Y
4	IC 280-621390/18	5.0	0.85452	50.0	1896972.0	0.170904	Y
5	IC 280-621390/17	10.0	1.832479	50.0	1925233.0	0.183248	Y
6	ICIS 280-621390/16	50.0	8.18873	50.0	2001055.0	0.163775	Y
7	IC 280-621390/15	75.0	12.283567	50.0	1975493.0	0.163781	Y
8	IC 280-621390/14	100.0	17.204506	50.0	1985012.0	0.172045	Y
9	IC 280-621390/13	200.0	34.183043	50.0	1973281.0	0.170915	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

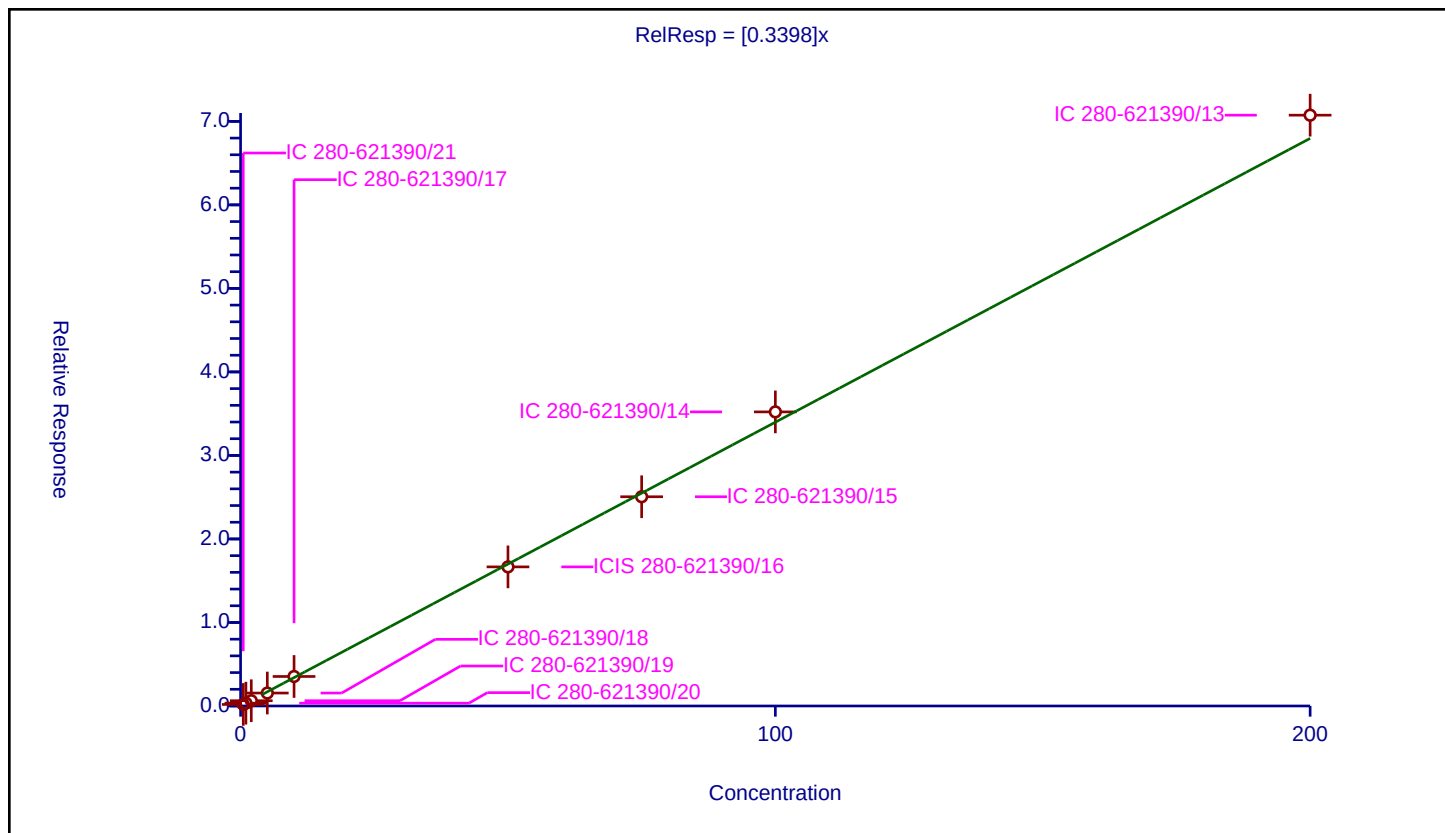
Curve Coefficients

Intercept: 0
 Slope: 0.3398

Error Coefficients

Standard Error: 1180000
 Relative Standard Error: 5.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.184914	50.0	1827609.0	0.369827	Y
2	IC 280-621390/20	1.0	0.337783	50.0	1846303.0	0.337783	Y
3	IC 280-621390/19	2.0	0.629572	50.0	1932187.0	0.314786	Y
4	IC 280-621390/18	5.0	1.548837	50.0	1896972.0	0.309767	Y
5	IC 280-621390/17	10.0	3.532092	50.0	1925233.0	0.353209	Y
6	ICIS 280-621390/16	50.0	16.655814	50.0	2001055.0	0.333116	Y
7	IC 280-621390/15	75.0	25.05324	50.0	1975493.0	0.334043	Y
8	IC 280-621390/14	100.0	35.213918	50.0	1985012.0	0.352139	Y
9	IC 280-621390/13	200.0	70.740685	50.0	1973281.0	0.353703	Y



Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

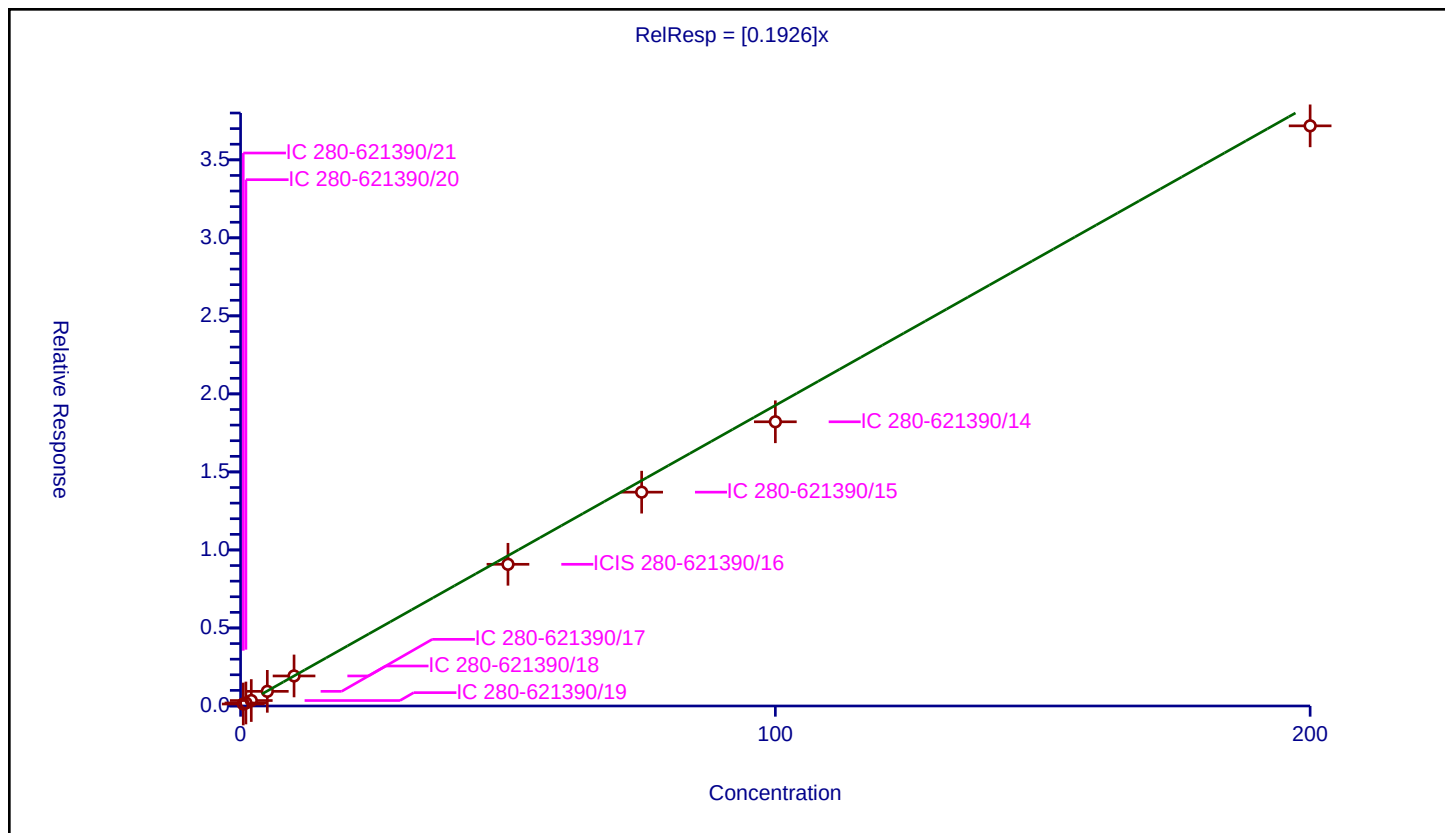
Curve Coefficients

Intercept: 0
Slope: 0.1926

Error Coefficients

Standard Error: 623000
Relative Standard Error: 12.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.12686	50.0	1827609.0	0.253719	Y
2	IC 280-621390/20	1.0	0.192655	50.0	1846303.0	0.192655	Y
3	IC 280-621390/19	2.0	0.349216	50.0	1932187.0	0.174608	Y
4	IC 280-621390/18	5.0	0.939313	50.0	1896972.0	0.187863	Y
5	IC 280-621390/17	10.0	1.925585	50.0	1925233.0	0.192559	Y
6	ICIS 280-621390/16	50.0	9.08021	50.0	2001055.0	0.181604	Y
7	IC 280-621390/15	75.0	13.702731	50.0	1975493.0	0.182703	Y
8	IC 280-621390/14	100.0	18.213089	50.0	1985012.0	0.182131	Y
9	IC 280-621390/13	200.0	37.177903	50.0	1973281.0	0.18589	Y



Calibration

/ cis-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

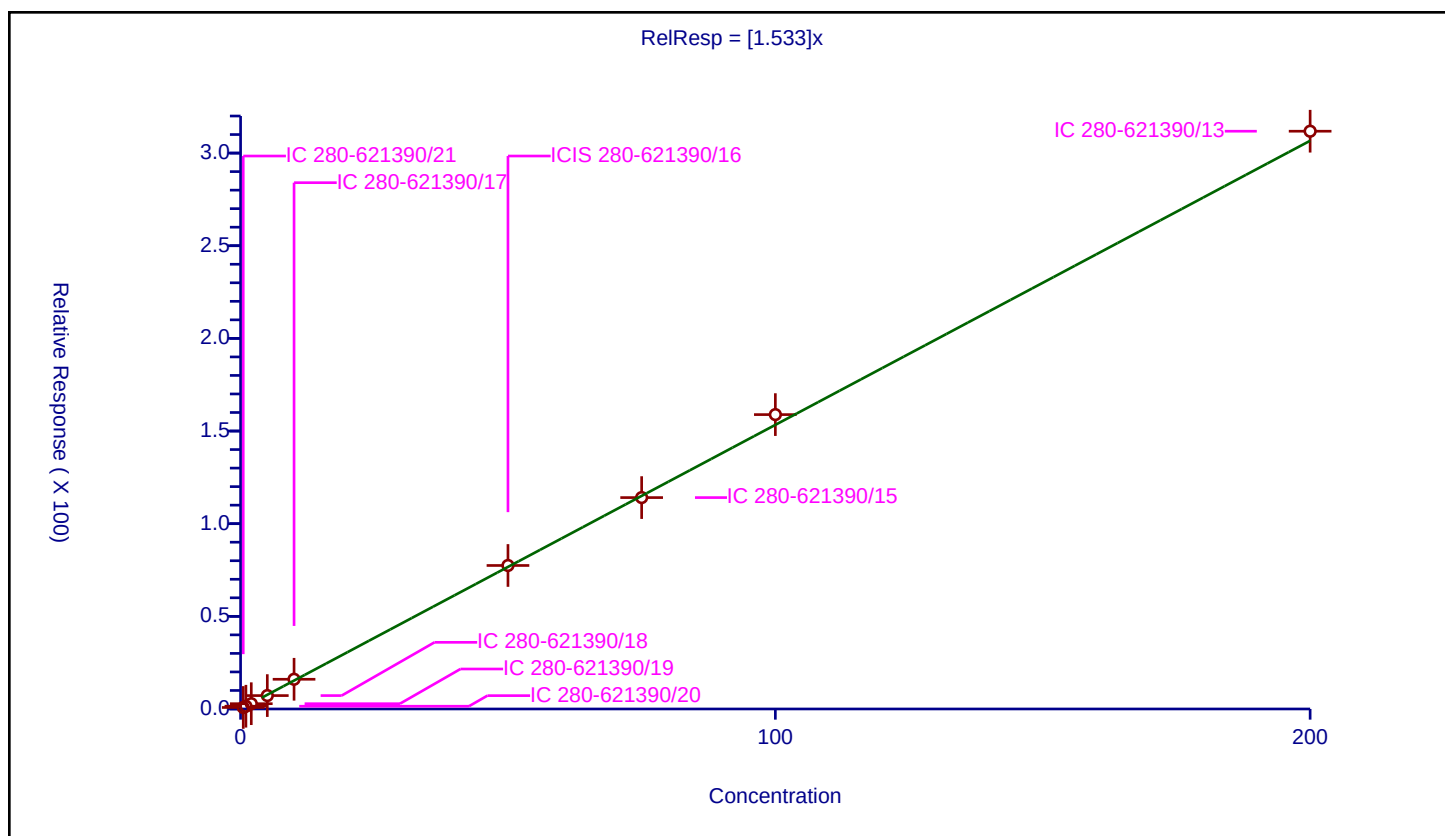
Curve Coefficients

Intercept: 0
 Slope: 1.533

Error Coefficients

Standard Error: 1460000
 Relative Standard Error: 4.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.809663	50.0	495453.0	1.619326	Y
2	IC 280-621390/20	1.0	1.482508	50.0	494365.0	1.482508	Y
3	IC 280-621390/19	2.0	2.861933	50.0	517133.0	1.430967	Y
4	IC 280-621390/18	5.0	7.226311	50.0	514315.0	1.445262	Y
5	IC 280-621390/17	10.0	16.036731	50.0	520873.0	1.603673	Y
6	ICIS 280-621390/16	50.0	77.443863	50.0	536814.0	1.548877	Y
7	IC 280-621390/15	75.0	114.08358	50.0	539529.0	1.521114	Y
8	IC 280-621390/14	100.0	158.862307	50.0	547318.0	1.588623	Y
9	IC 280-621390/13	200.0	311.799032	50.0	550774.0	1.558995	Y



Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

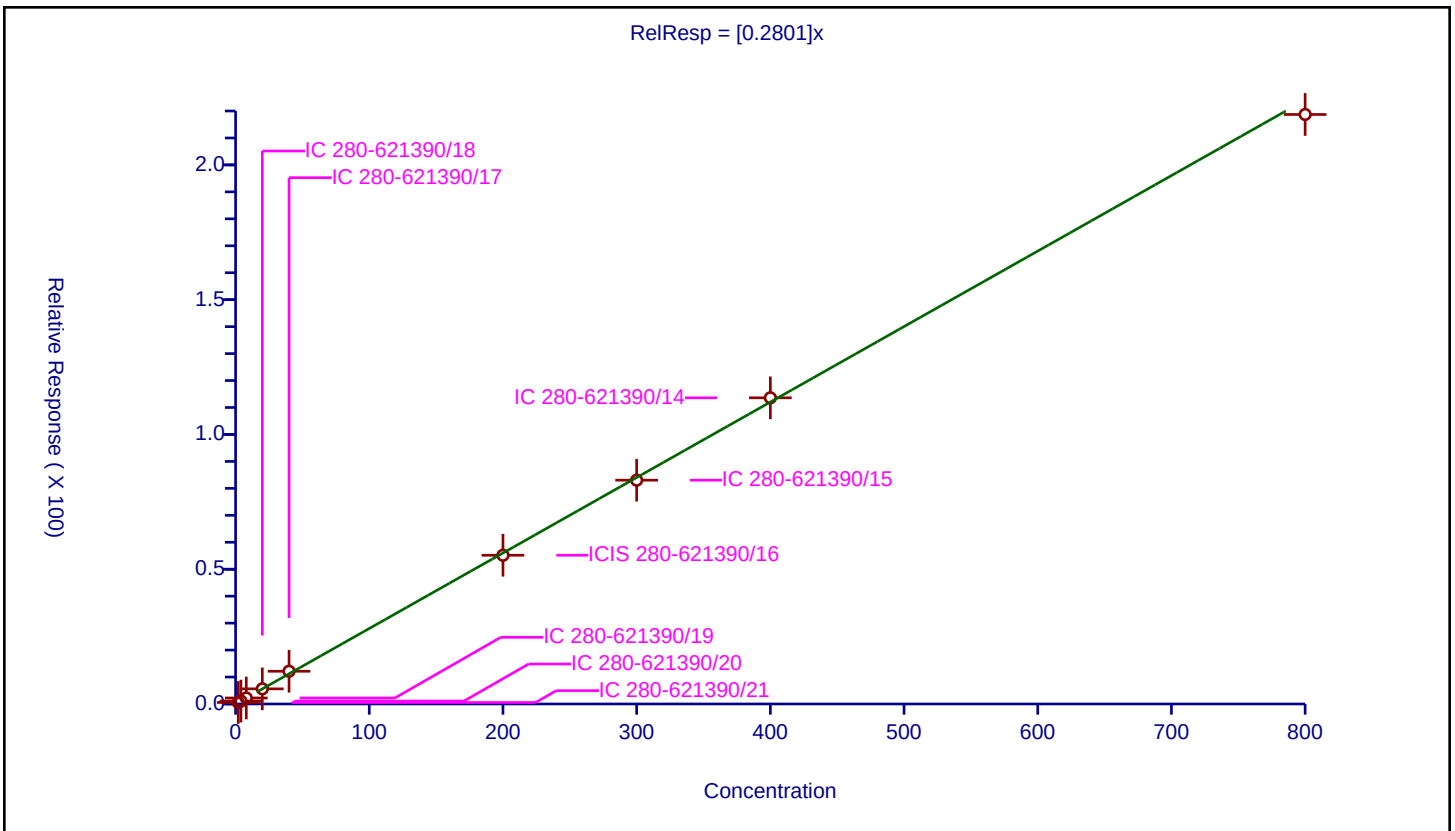
Curve Coefficients

Intercept: 0
Slope: 0.2801

Error Coefficients

Standard Error: 3720000
Relative Standard Error: 3.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	2.0	0.555753	50.0	1827609.0	0.277877	Y
2	IC 280-621390/20	4.0	1.078615	50.0	1846303.0	0.269654	Y
3	IC 280-621390/19	8.0	2.227683	50.0	1932187.0	0.27846	Y
4	IC 280-621390/18	20.0	5.616794	50.0	1896972.0	0.28084	Y
5	IC 280-621390/17	40.0	12.145647	50.0	1925233.0	0.303641	Y
6	ICIS 280-621390/16	200.0	55.182641	50.0	2001055.0	0.275913	Y
7	IC 280-621390/15	300.0	83.02935	50.0	1975493.0	0.276765	Y
8	IC 280-621390/14	400.0	113.597726	50.0	1985012.0	0.283994	Y
9	IC 280-621390/13	800.0	218.713706	50.0	1973281.0	0.273392	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

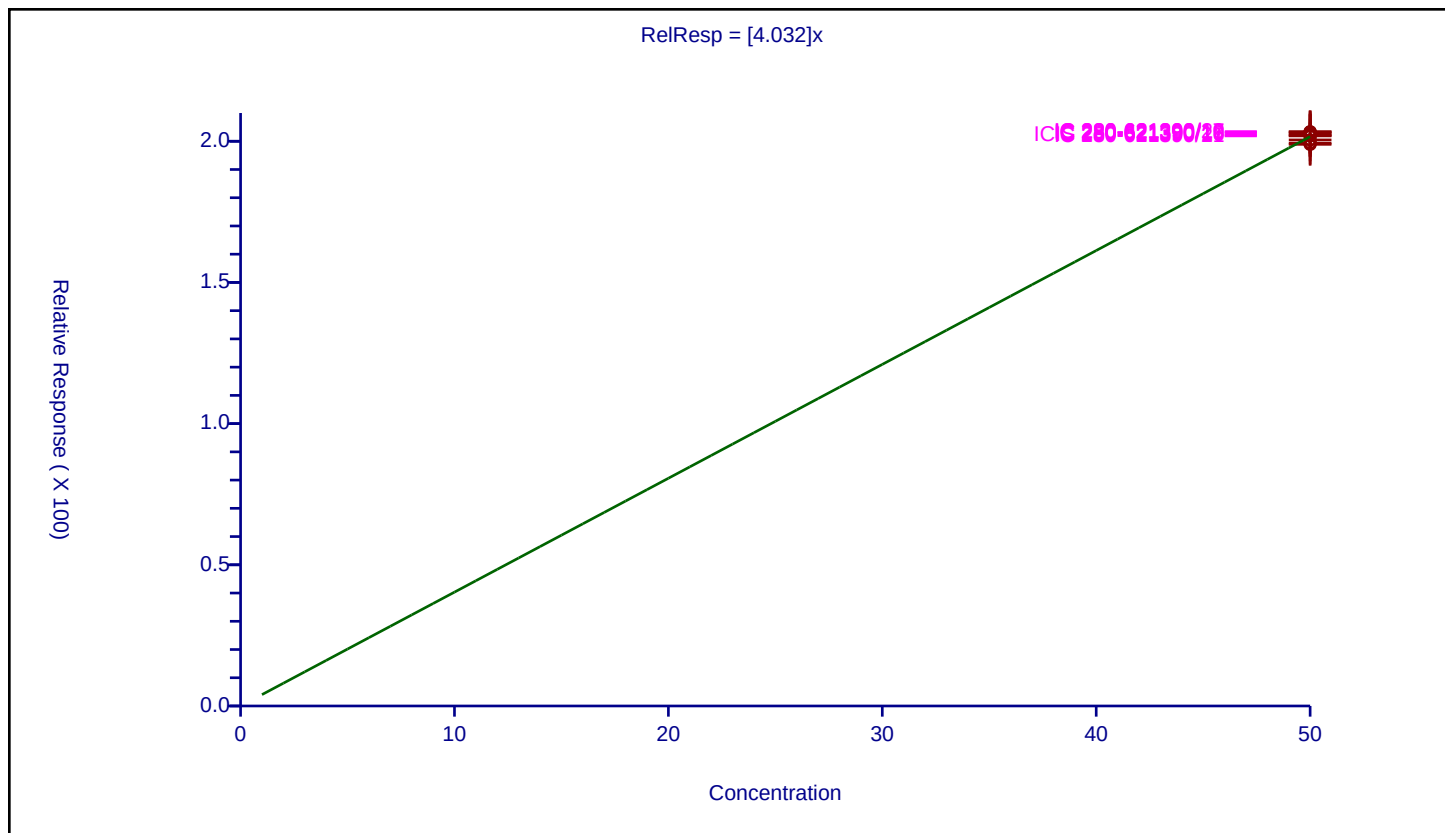
Curve Coefficients

Intercept: 0
 Slope: 4.032

Error Coefficients

Standard Error: 2240000
 Relative Standard Error: 0.8
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/13	50.0	199.320139	50.0	550774.0	3.986403	Y
2	IC 280-621390/14	50.0	198.907034	50.0	547318.0	3.978141	Y
3	IC 280-621390/15	50.0	200.471893	50.0	539529.0	4.009438	Y
4	ICIS 280-621390/16	50.0	202.043538	50.0	536814.0	4.040871	Y
5	IC 280-621390/17	50.0	203.299749	50.0	520873.0	4.065995	Y
6	IC 280-621390/18	50.0	202.978525	50.0	514315.0	4.05957	Y
7	IC 280-621390/19	50.0	202.347559	50.0	517133.0	4.046951	Y
8	IC 280-621390/20	50.0	203.358551	50.0	494365.0	4.067171	Y
9	IC 280-621390/21	50.0	201.894024	50.0	495453.0	4.03788	Y



Calibration

/ Toluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

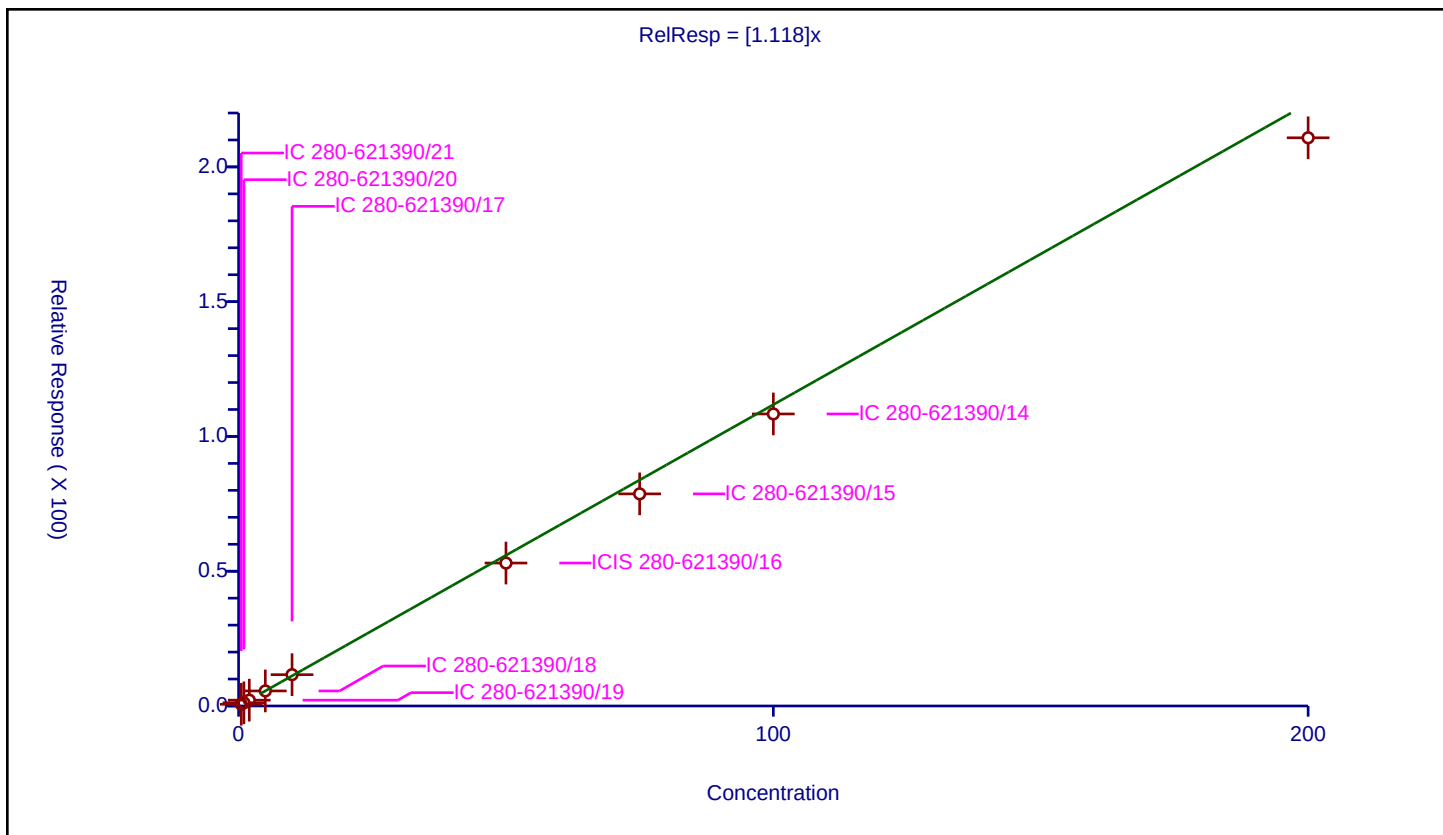
Curve Coefficients

Intercept: 0
 Slope: 1.118

Error Coefficients

Standard Error: 3570000
 Relative Standard Error: 6.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.638129	50.0	1827609.0	1.276258	Y
2	IC 280-621390/20	1.0	1.17998	50.0	1846303.0	1.17998	Y
3	IC 280-621390/19	2.0	2.160376	50.0	1932187.0	1.080188	Y
4	IC 280-621390/18	5.0	5.581448	50.0	1896972.0	1.11629	Y
5	IC 280-621390/17	10.0	11.615815	50.0	1925233.0	1.161581	Y
6	ICIS 280-621390/16	50.0	53.033975	50.0	2001055.0	1.060679	Y
7	IC 280-621390/15	75.0	78.698431	50.0	1975493.0	1.049312	Y
8	IC 280-621390/14	100.0	108.353753	50.0	1985012.0	1.083538	Y
9	IC 280-621390/13	200.0	210.806342	50.0	1973281.0	1.054032	Y



Calibration

/ trans-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

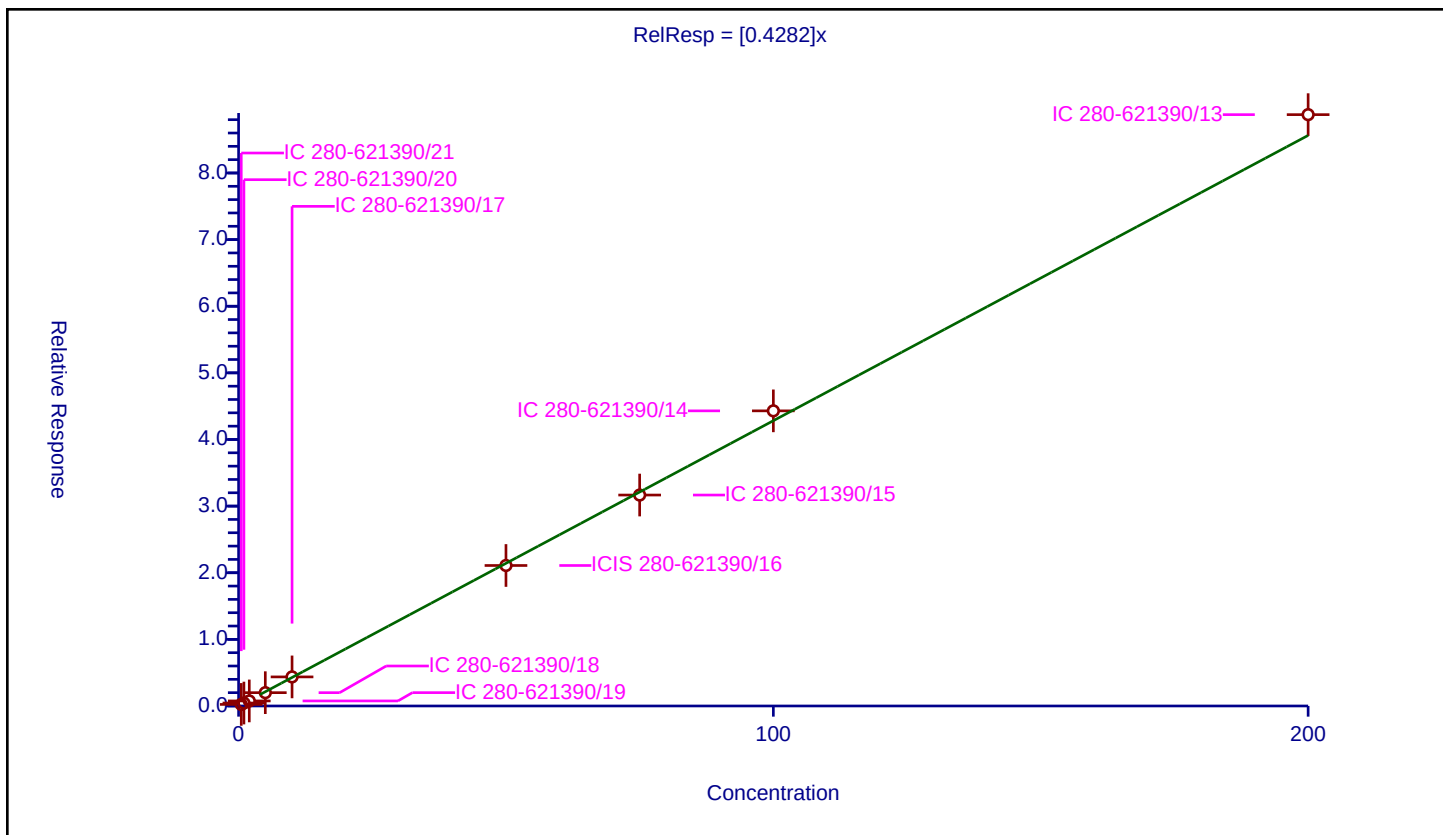
Curve Coefficients

Intercept: 0
 Slope: 0.4282

Error Coefficients

Standard Error: 1490000
 Relative Standard Error: 6.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.233447	50.0	1827609.0	0.466894	Y
2	IC 280-621390/20	1.0	0.441748	50.0	1846303.0	0.441748	Y
3	IC 280-621390/19	2.0	0.756656	50.0	1932187.0	0.378328	Y
4	IC 280-621390/18	5.0	1.99771	50.0	1896972.0	0.399542	Y
5	IC 280-621390/17	10.0	4.365939	50.0	1925233.0	0.436594	Y
6	ICIS 280-621390/16	50.0	21.086602	50.0	2001055.0	0.421732	Y
7	IC 280-621390/15	75.0	31.65997	50.0	1975493.0	0.422133	Y
8	IC 280-621390/14	100.0	44.296584	50.0	1985012.0	0.442966	Y
9	IC 280-621390/13	200.0	88.756036	50.0	1973281.0	0.44378	Y



Calibration

/ Ethyl methacrylate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

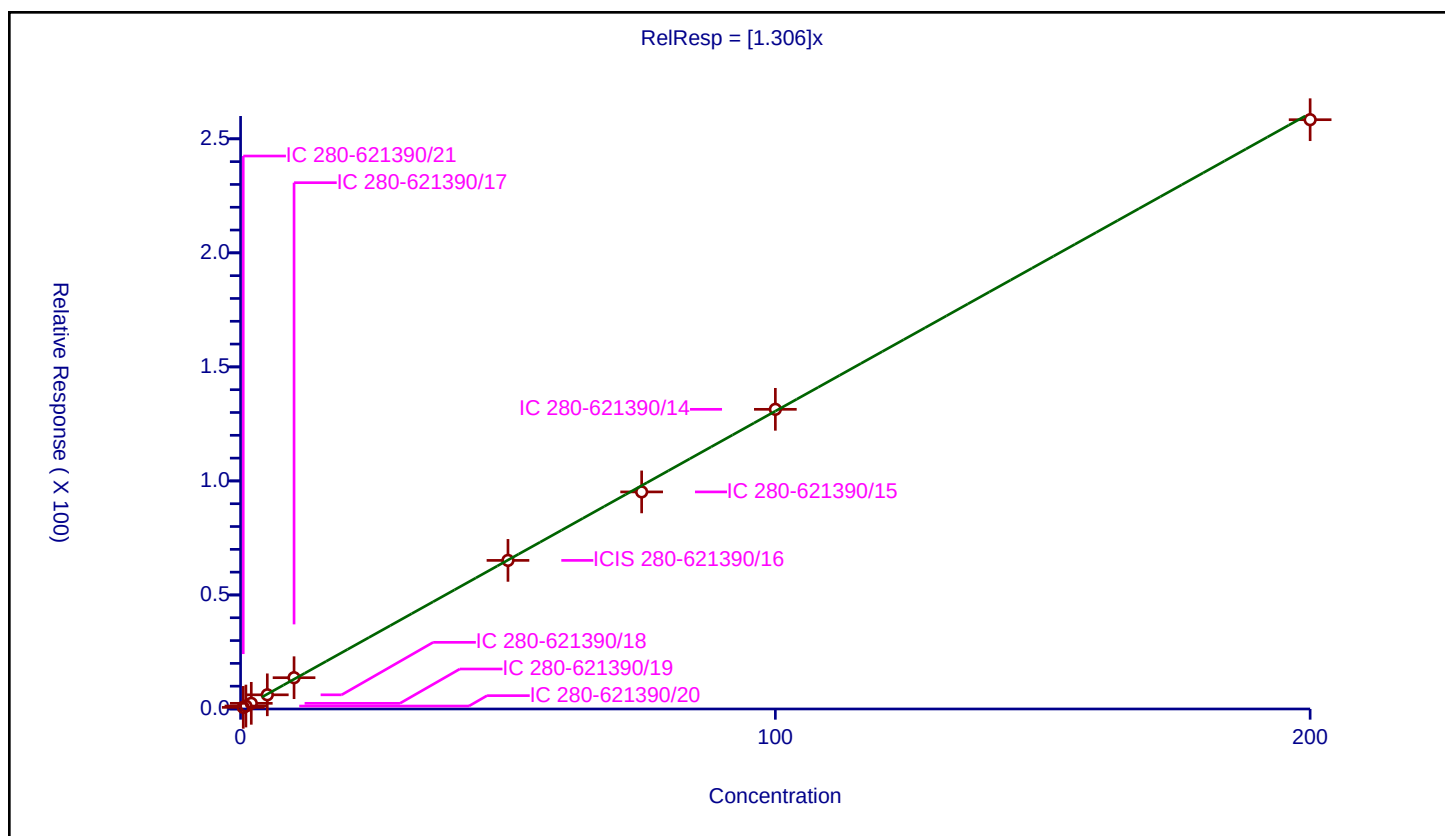
Curve Coefficients

Intercept: 0
Slope: 1.306

Error Coefficients

Standard Error: 1210000
Relative Standard Error: 4.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.710057	50.0	495453.0	1.420115	Y
2	IC 280-621390/20	1.0	1.296815	50.0	494365.0	1.296815	Y
3	IC 280-621390/19	2.0	2.489012	50.0	517133.0	1.244506	Y
4	IC 280-621390/18	5.0	6.210105	50.0	514315.0	1.242021	Y
5	IC 280-621390/17	10.0	13.720811	50.0	520873.0	1.372081	Y
6	ICIS 280-621390/16	50.0	65.155808	50.0	536814.0	1.303116	Y
7	IC 280-621390/15	75.0	95.18821	50.0	539529.0	1.269176	Y
8	IC 280-621390/14	100.0	131.396738	50.0	547318.0	1.313967	Y
9	IC 280-621390/13	200.0	258.38874	50.0	550774.0	1.291944	Y



Calibration

/ 1,1,2-Trichloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

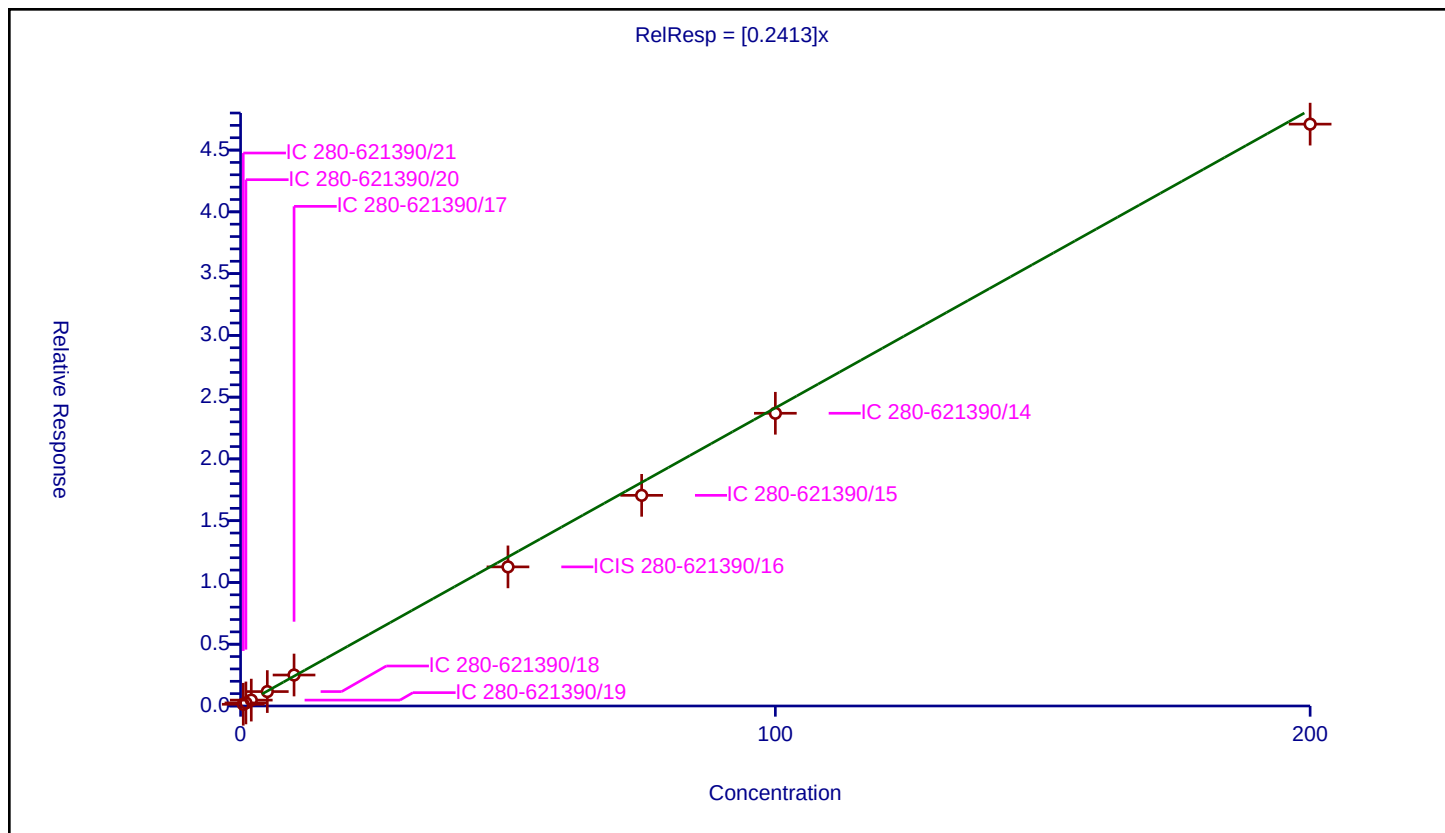
Curve Coefficients

Intercept: 0
Slope: 0.2413

Error Coefficients

Standard Error: 791000
Relative Standard Error: 6.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.138323	50.0	1827609.0	0.276646	Y
2	IC 280-621390/20	1.0	0.247603	50.0	1846303.0	0.247603	Y
3	IC 280-621390/19	2.0	0.476481	50.0	1932187.0	0.23824	Y
4	IC 280-621390/18	5.0	1.166912	50.0	1896972.0	0.233382	Y
5	IC 280-621390/17	10.0	2.507722	50.0	1925233.0	0.250772	Y
6	ICIS 280-621390/16	50.0	11.259561	50.0	2001055.0	0.225191	Y
7	IC 280-621390/15	75.0	17.052908	50.0	1975493.0	0.227372	Y
8	IC 280-621390/14	100.0	23.695701	50.0	1985012.0	0.236957	Y
9	IC 280-621390/13	200.0	47.099349	50.0	1973281.0	0.235497	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

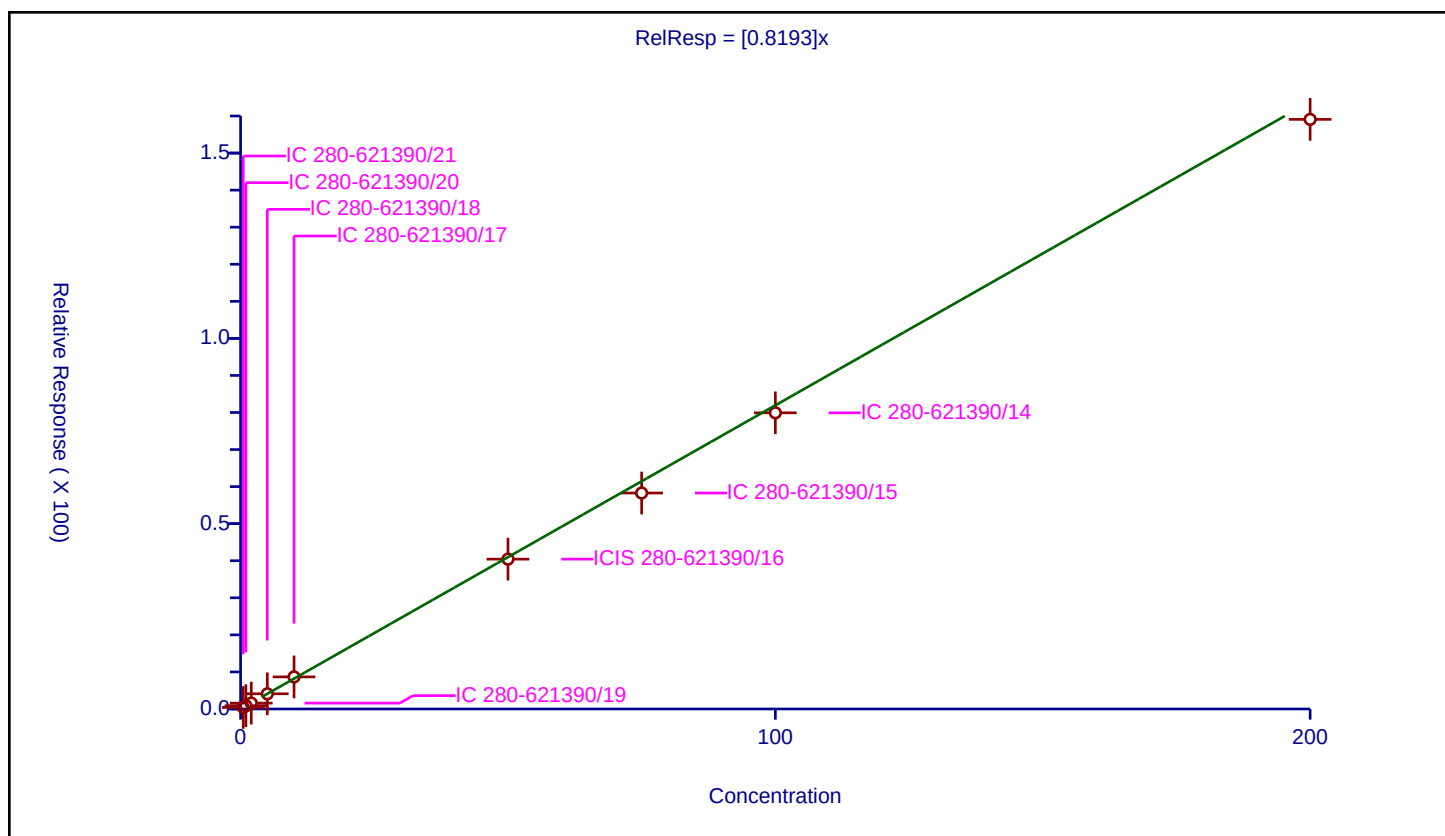
Curve Coefficients

Intercept: 0
Slope: 0.8193

Error Coefficients

Standard Error: 744000
Relative Standard Error: 4.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.415377	50.0	495453.0	0.830755	Y
2	IC 280-621390/20	1.0	0.884266	50.0	494365.0	0.884266	Y
3	IC 280-621390/19	2.0	1.586632	50.0	517133.0	0.793316	Y
4	IC 280-621390/18	5.0	4.096906	50.0	514315.0	0.819381	Y
5	IC 280-621390/17	10.0	8.660556	50.0	520873.0	0.866056	Y
6	ICIS 280-621390/16	50.0	40.433837	50.0	536814.0	0.808677	Y
7	IC 280-621390/15	75.0	58.274995	50.0	539529.0	0.777	Y
8	IC 280-621390/14	100.0	79.914967	50.0	547318.0	0.79915	Y
9	IC 280-621390/13	200.0	159.091025	50.0	550774.0	0.795455	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

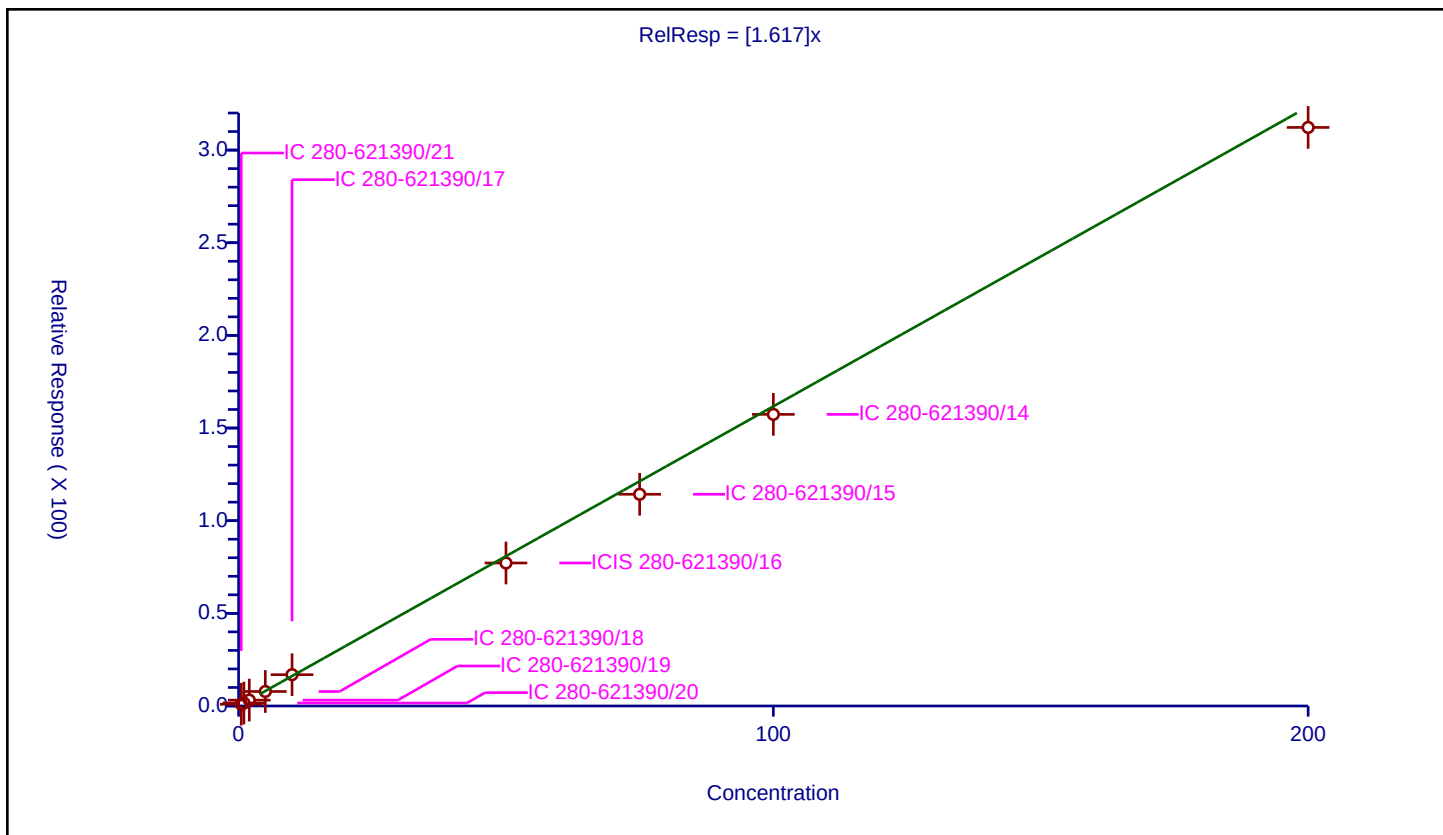
Curve Coefficients

Intercept: 0
 Slope: 1.617

Error Coefficients

Standard Error: 1460000
 Relative Standard Error: 7.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.962453	50.0	495453.0	1.924905	Y
2	IC 280-621390/20	1.0	1.586075	50.0	494365.0	1.586075	Y
3	IC 280-621390/19	2.0	3.171041	50.0	517133.0	1.585521	Y
4	IC 280-621390/18	5.0	7.823707	50.0	514315.0	1.564741	Y
5	IC 280-621390/17	10.0	16.901913	50.0	520873.0	1.690191	Y
6	ICIS 280-621390/16	50.0	77.171702	50.0	536814.0	1.543434	Y
7	IC 280-621390/15	75.0	114.25827	50.0	539529.0	1.523444	Y
8	IC 280-621390/14	100.0	157.365097	50.0	547318.0	1.573651	Y
9	IC 280-621390/13	200.0	312.208274	50.0	550774.0	1.561041	Y



Calibration

/ 2-Hexanone

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

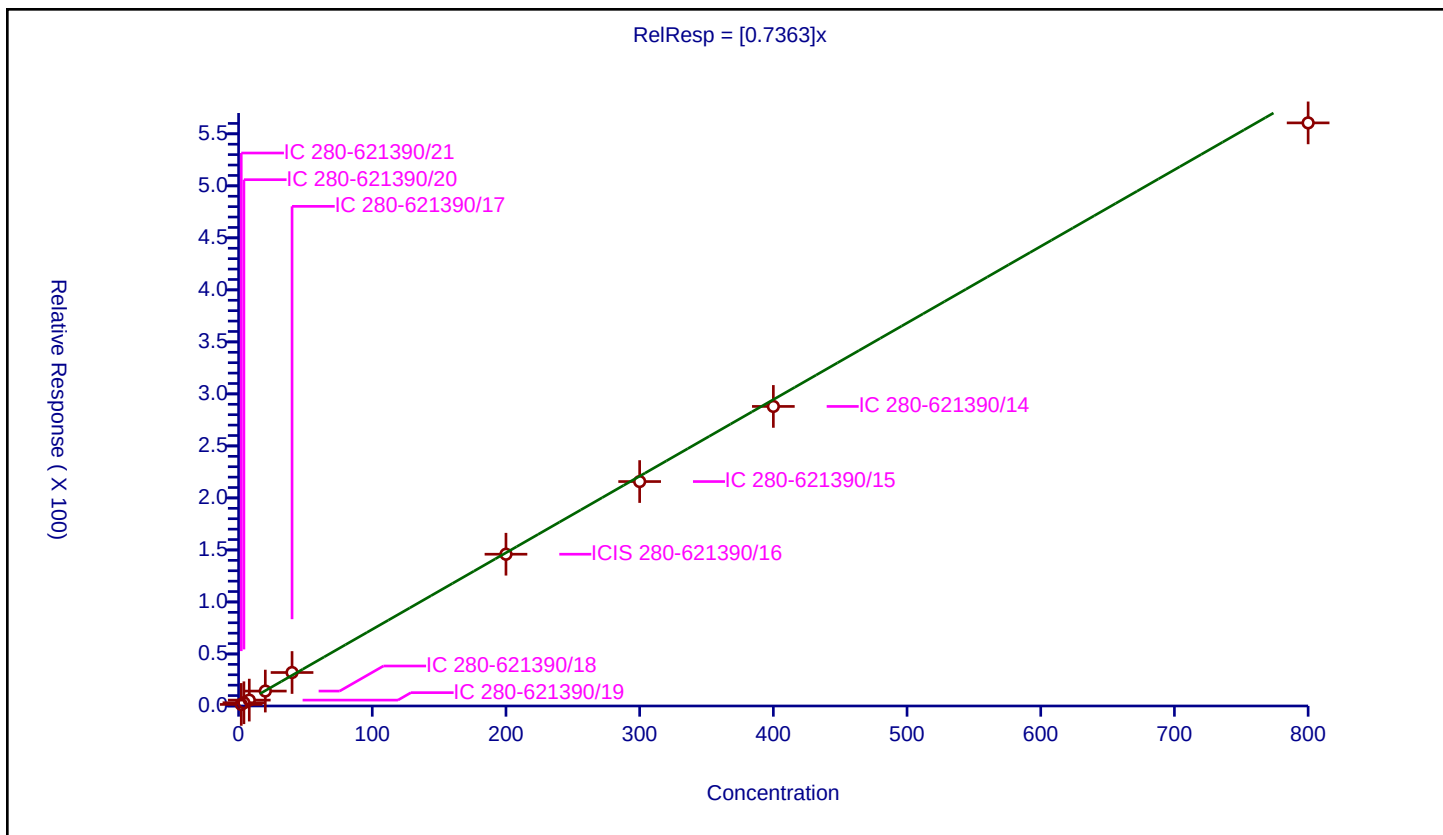
Curve Coefficients

Intercept: 0
 Slope: 0.7363

Error Coefficients

Standard Error: 2650000
 Relative Standard Error: 4.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	2.0	1.504785	50.0	495453.0	0.752392	Y
2	IC 280-621390/20	4.0	3.109545	50.0	494365.0	0.777386	Y
3	IC 280-621390/19	8.0	5.658409	50.0	517133.0	0.707301	Y
4	IC 280-621390/18	20.0	14.329642	50.0	514315.0	0.716482	Y
5	IC 280-621390/17	40.0	32.178285	50.0	520873.0	0.804457	Y
6	ICIS 280-621390/16	200.0	145.883584	50.0	536814.0	0.729418	Y
7	IC 280-621390/15	300.0	215.732241	50.0	539529.0	0.719107	Y
8	IC 280-621390/14	400.0	287.949602	50.0	547318.0	0.719874	Y
9	IC 280-621390/13	800.0	560.518833	50.0	550774.0	0.700649	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

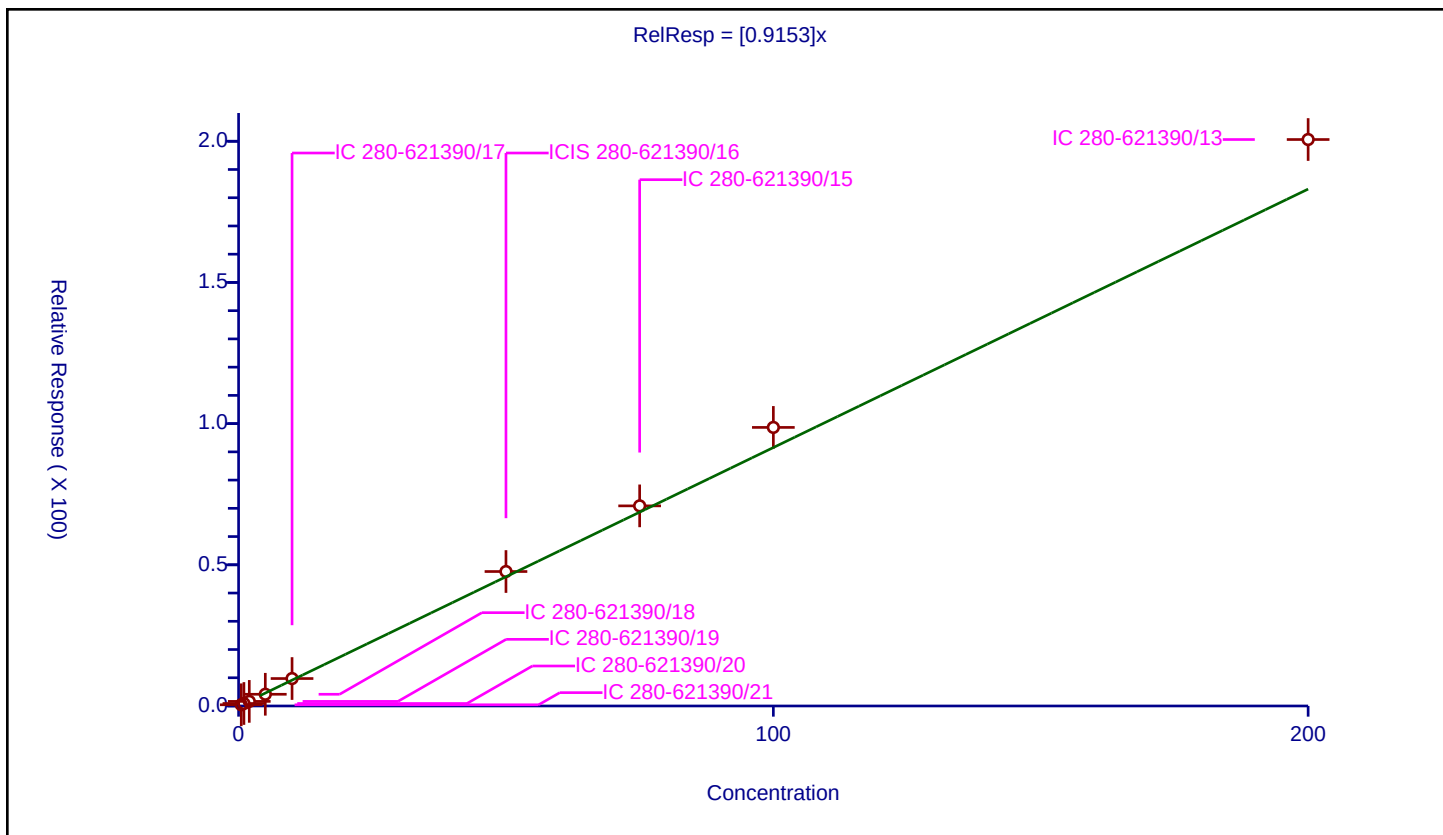
Curve Coefficients

Intercept: 0
 Slope: 0.9153

Error Coefficients

Standard Error: 929000
 Relative Standard Error: 7.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.426983	50.0	495453.0	0.853966	Y
2	IC 280-621390/20	1.0	0.881636	50.0	494365.0	0.881636	Y
3	IC 280-621390/19	2.0	1.626661	50.0	517133.0	0.81333	Y
4	IC 280-621390/18	5.0	4.146292	50.0	514315.0	0.829258	Y
5	IC 280-621390/17	10.0	9.724731	50.0	520873.0	0.972473	Y
6	ICIS 280-621390/16	50.0	47.623479	50.0	536814.0	0.95247	Y
7	IC 280-621390/15	75.0	70.869406	50.0	539529.0	0.944925	Y
8	IC 280-621390/14	100.0	98.655261	50.0	547318.0	0.986553	Y
9	IC 280-621390/13	200.0	200.615951	50.0	550774.0	1.00308	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

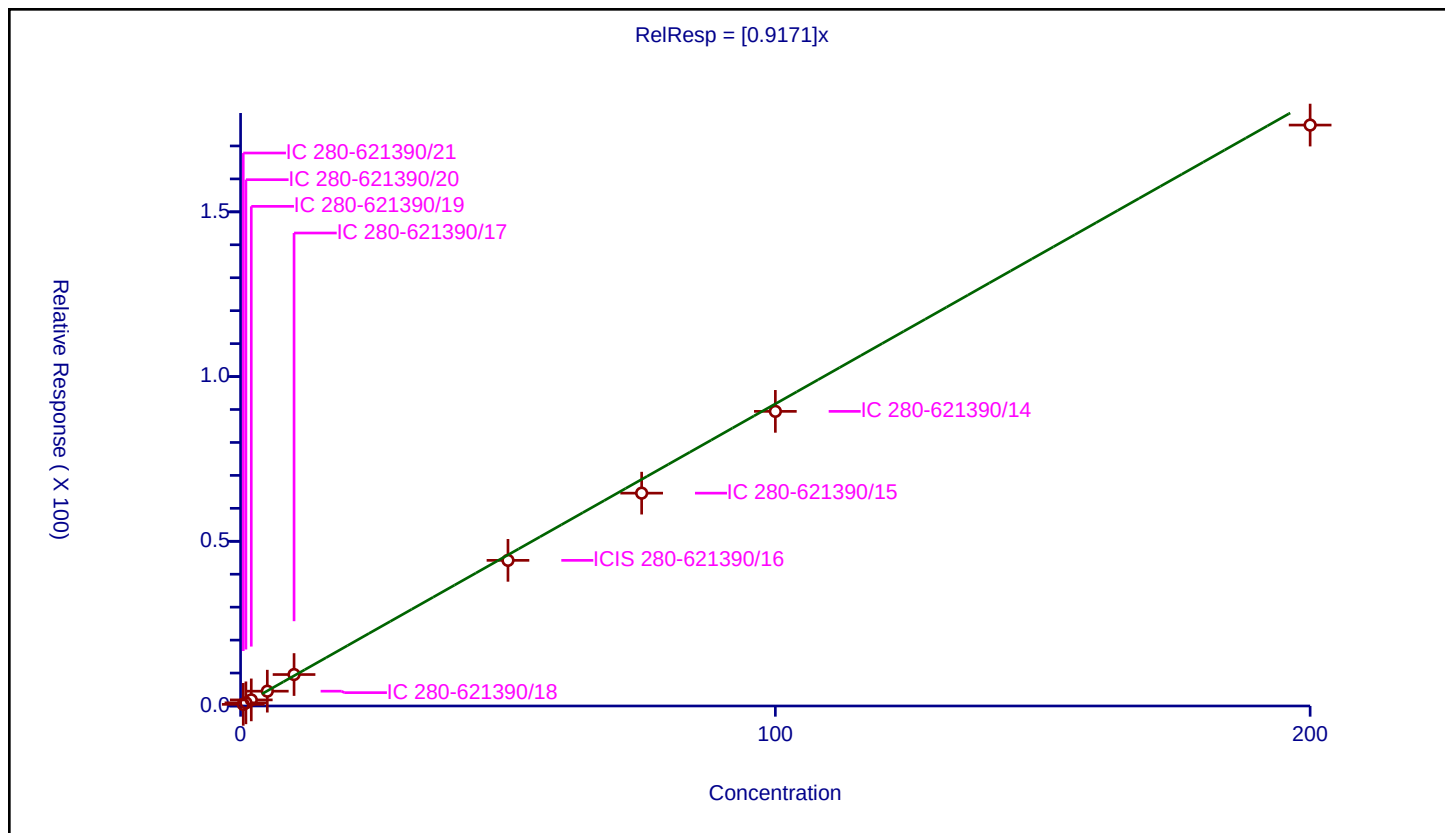
Curve Coefficients

Intercept: 0
Slope: 0.9171

Error Coefficients

Standard Error: 826000
Relative Standard Error: 4.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.49702	50.0	495453.0	0.99404	Y
2	IC 280-621390/20	1.0	0.960424	50.0	494365.0	0.960424	Y
3	IC 280-621390/19	2.0	1.847494	50.0	517133.0	0.923747	Y
4	IC 280-621390/18	5.0	4.494327	50.0	514315.0	0.898865	Y
5	IC 280-621390/17	10.0	9.550793	50.0	520873.0	0.955079	Y
6	ICIS 280-621390/16	50.0	44.207677	50.0	536814.0	0.884154	Y
7	IC 280-621390/15	75.0	64.610614	50.0	539529.0	0.861475	Y
8	IC 280-621390/14	100.0	89.431373	50.0	547318.0	0.894314	Y
9	IC 280-621390/13	200.0	176.339933	50.0	550774.0	0.8817	Y



Calibration

/ 1-Chlorohexane

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

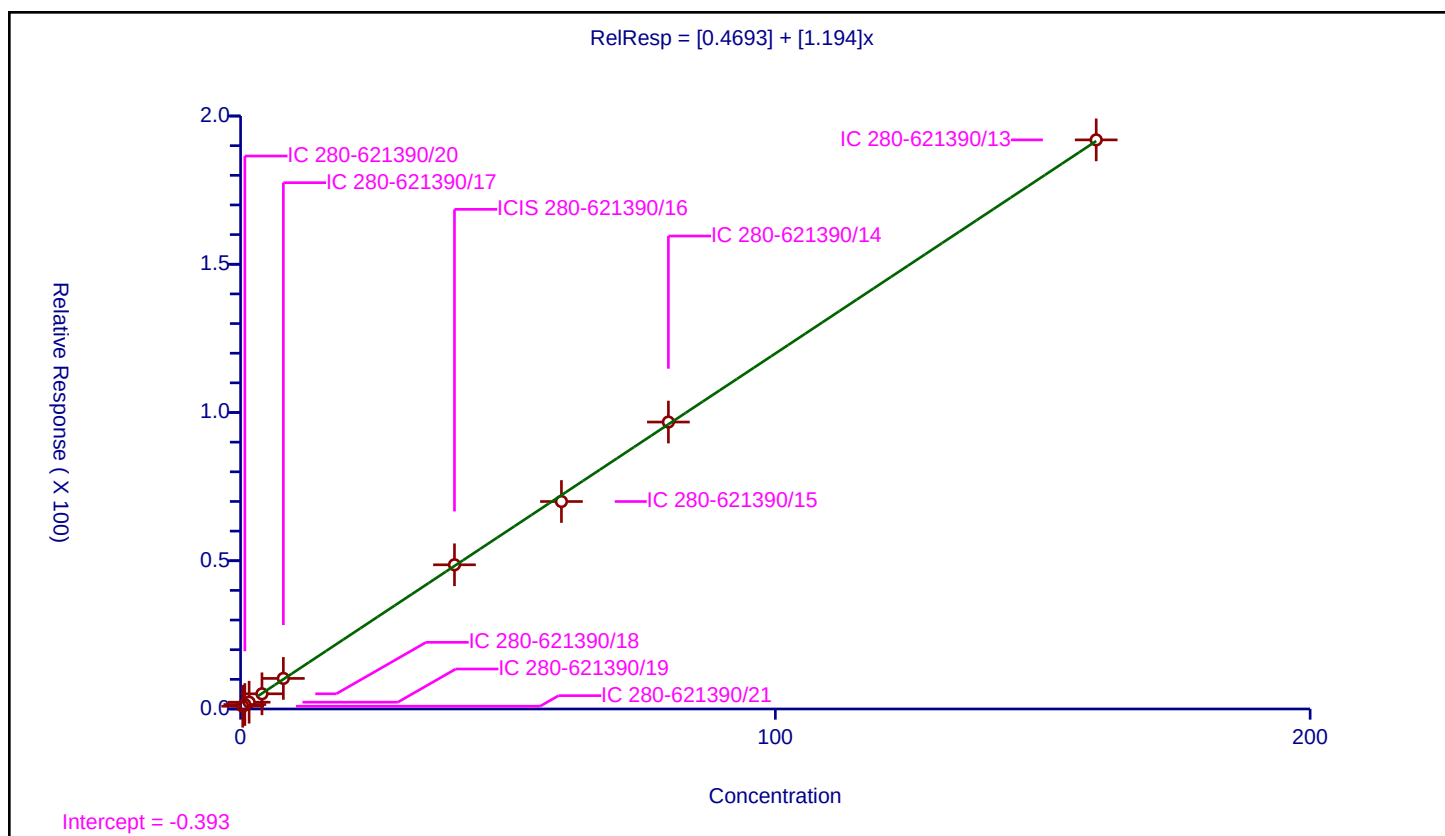
Curve Coefficients

Intercept: 0.4693
Slope: 1.194

Error Coefficients

Standard Error: 960000
Relative Standard Error: 4.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.4	0.932985	50.0	495453.0	2.332461	Y
2	IC 280-621390/20	0.8	1.506478	50.0	494365.0	1.883098	Y
3	IC 280-621390/19	1.6	2.285969	50.0	517133.0	1.428731	Y
4	IC 280-621390/18	4.0	5.125361	50.0	514315.0	1.28134	Y
5	IC 280-621390/17	8.0	10.313167	50.0	520873.0	1.289146	Y
6	ICIS 280-621390/16	40.0	48.637424	50.0	536814.0	1.215936	Y
7	IC 280-621390/15	60.0	69.975108	50.0	539529.0	1.166252	Y
8	IC 280-621390/14	80.0	96.779295	50.0	547318.0	1.209741	Y
9	IC 280-621390/13	160.0	191.946334	50.0	550774.0	1.199665	Y



Calibration

/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

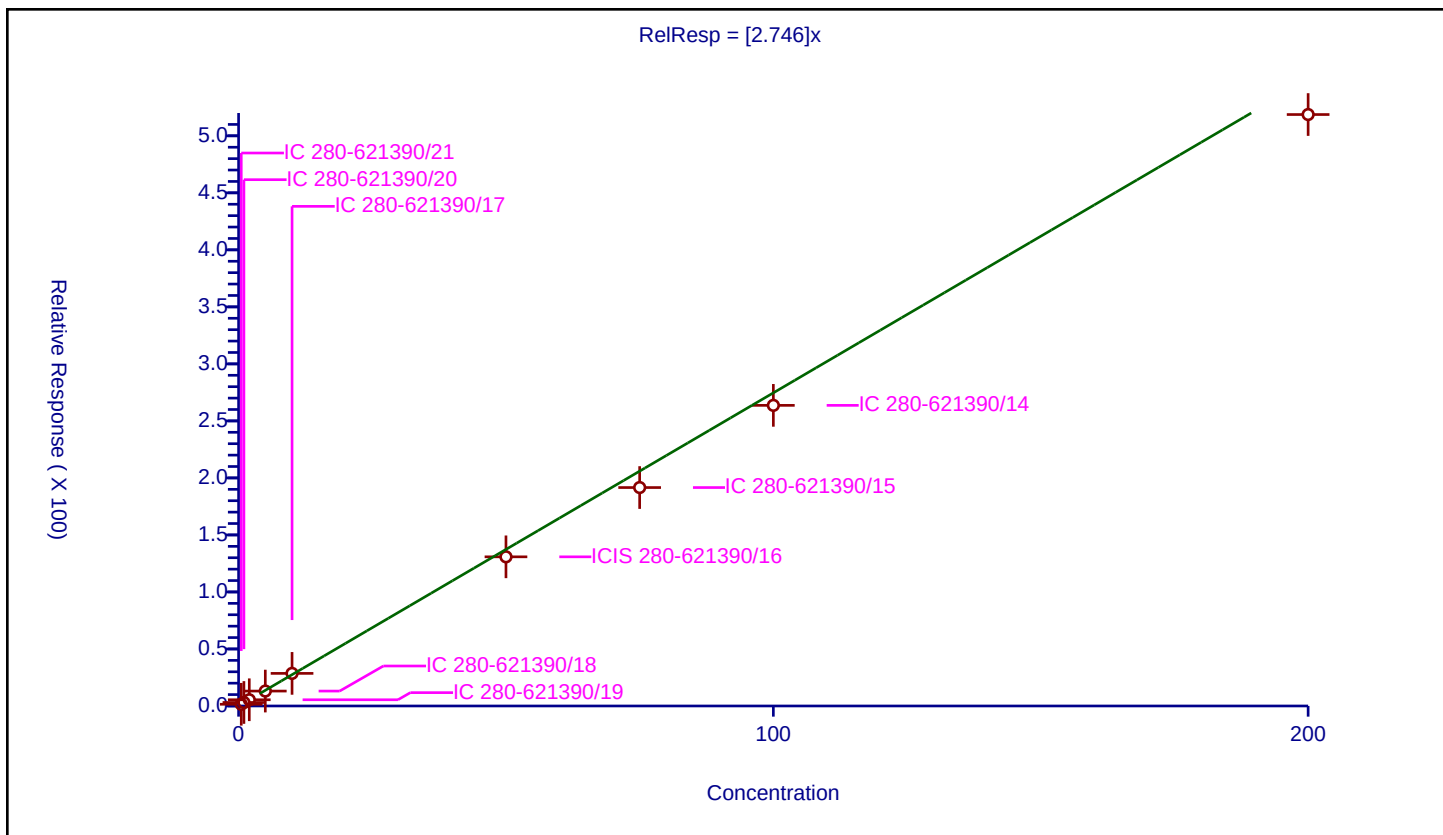
Curve Coefficients

Intercept: 0
 Slope: 2.746

Error Coefficients

Standard Error: 2430000
 Relative Standard Error: 7.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	1.516188	50.0	495453.0	3.032376	Y
2	IC 280-621390/20	1.0	3.074449	50.0	494365.0	3.074449	Y
3	IC 280-621390/19	2.0	5.458847	50.0	517133.0	2.729424	Y
4	IC 280-621390/18	5.0	13.094796	50.0	514315.0	2.618959	Y
5	IC 280-621390/17	10.0	28.594878	50.0	520873.0	2.859488	Y
6	ICIS 280-621390/16	50.0	130.801637	50.0	536814.0	2.616033	Y
7	IC 280-621390/15	75.0	191.567182	50.0	539529.0	2.554229	Y
8	IC 280-621390/14	100.0	263.622885	50.0	547318.0	2.636229	Y
9	IC 280-621390/13	200.0	518.670453	50.0	550774.0	2.593352	Y



Calibration

/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

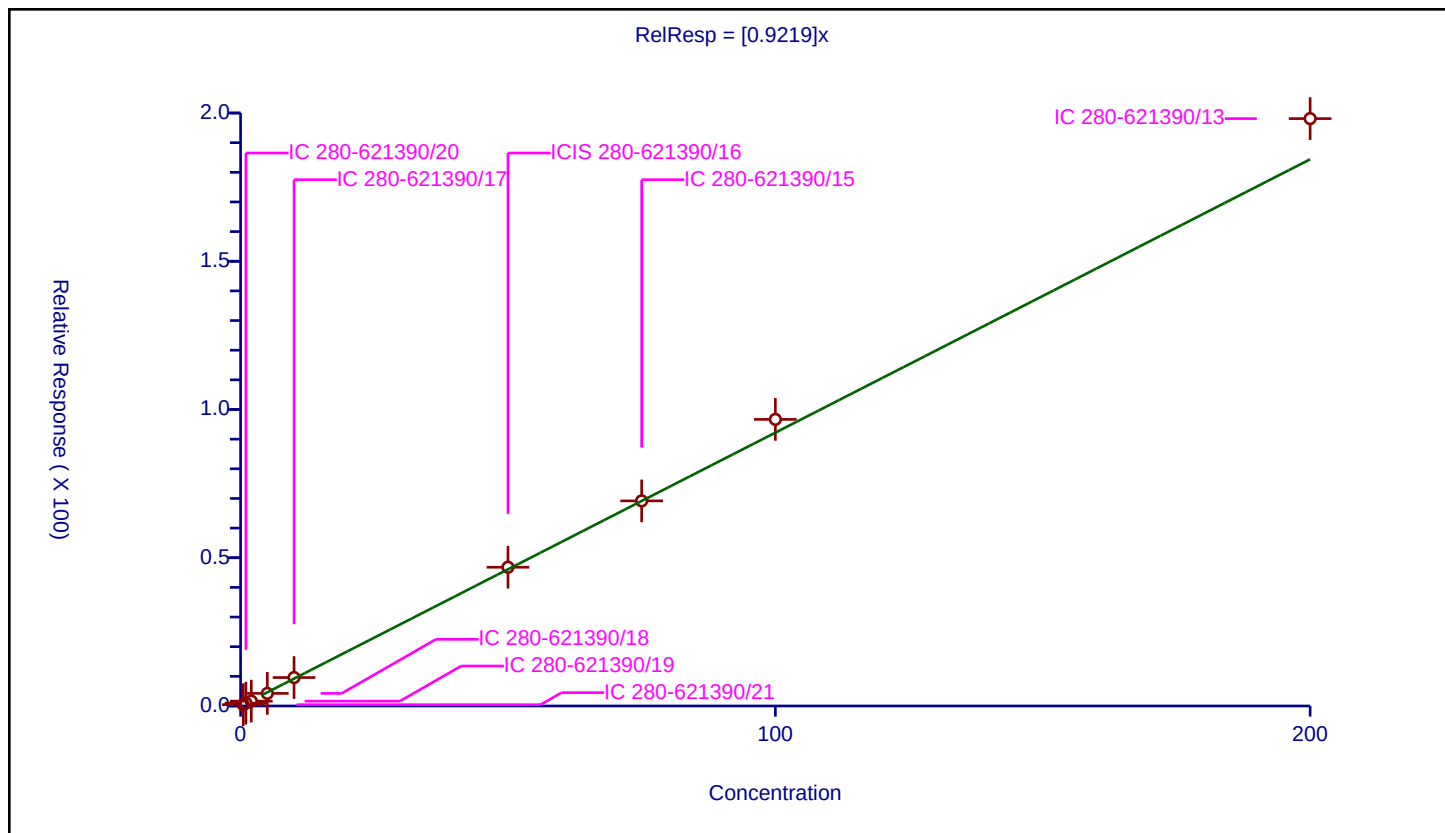
Curve Coefficients

Intercept: 0
Slope: 0.9219

Error Coefficients

Standard Error: 915000
Relative Standard Error: 6.2
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.44646	50.0	495453.0	0.89292	Y
2	IC 280-621390/20	1.0	0.959817	50.0	494365.0	0.959817	Y
3	IC 280-621390/19	2.0	1.640197	50.0	517133.0	0.820099	Y
4	IC 280-621390/18	5.0	4.247591	50.0	514315.0	0.849518	Y
5	IC 280-621390/17	10.0	9.592837	50.0	520873.0	0.959284	Y
6	ICIS 280-621390/16	50.0	46.802803	50.0	536814.0	0.936056	Y
7	IC 280-621390/15	75.0	69.181731	50.0	539529.0	0.922423	Y
8	IC 280-621390/14	100.0	96.661447	50.0	547318.0	0.966614	Y
9	IC 280-621390/13	200.0	198.111113	50.0	550774.0	0.990556	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

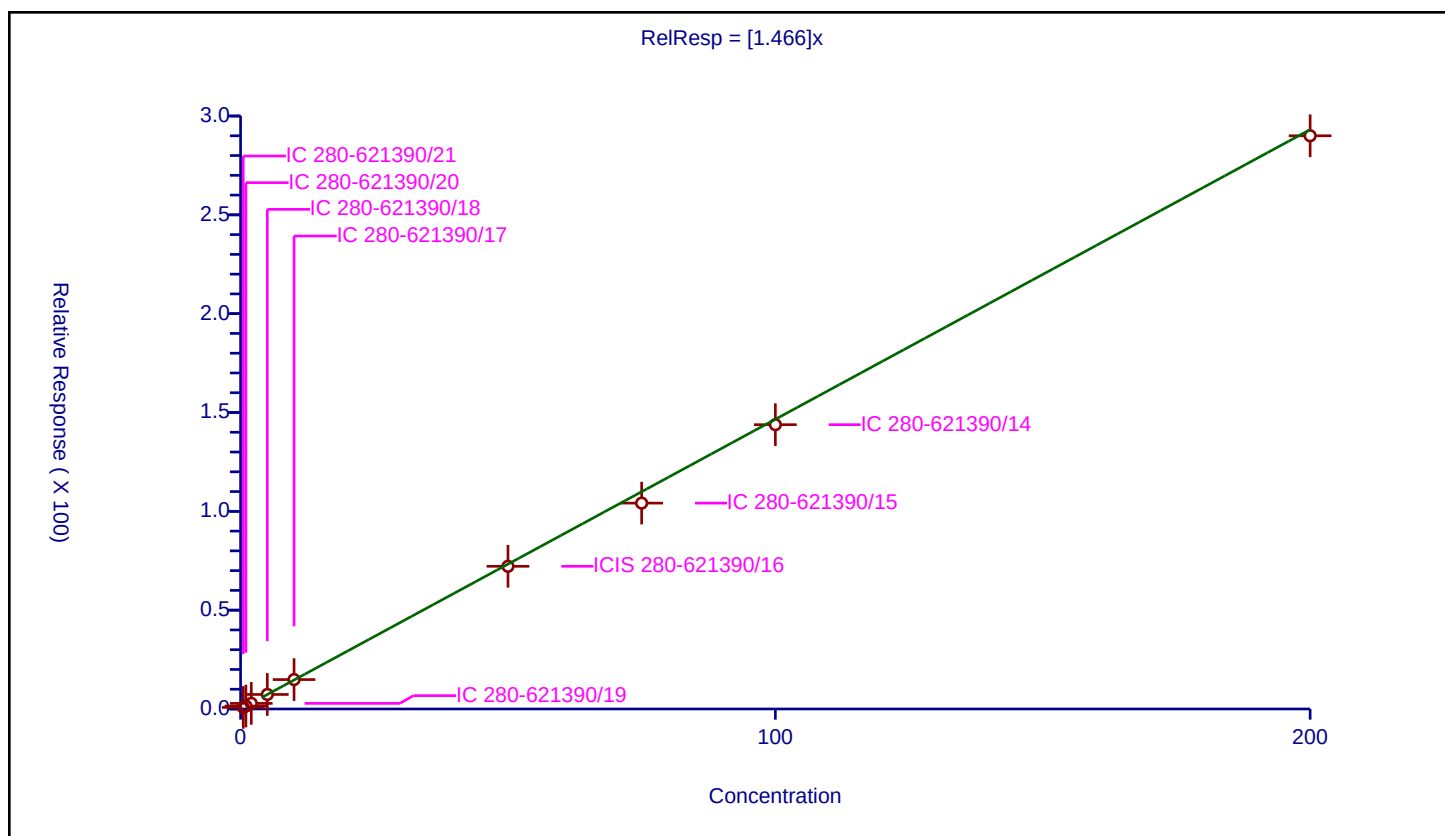
Curve Coefficients

Intercept: 0
Slope: 1.466

Error Coefficients

Standard Error: 1350000
Relative Standard Error: 4.1
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.80048	50.0	495453.0	1.600959	Y
2	IC 280-621390/20	1.0	1.488071	50.0	494365.0	1.488071	Y
3	IC 280-621390/19	2.0	2.844819	50.0	517133.0	1.42241	Y
4	IC 280-621390/18	5.0	7.351526	50.0	514315.0	1.470305	Y
5	IC 280-621390/17	10.0	14.880595	50.0	520873.0	1.488059	Y
6	ICIS 280-621390/16	50.0	72.1845	50.0	536814.0	1.44369	Y
7	IC 280-621390/15	75.0	104.165207	50.0	539529.0	1.388869	Y
8	IC 280-621390/14	100.0	143.833658	50.0	547318.0	1.438337	Y
9	IC 280-621390/13	200.0	290.007063	50.0	550774.0	1.450035	Y



Calibration

/ m-Xylene & p-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

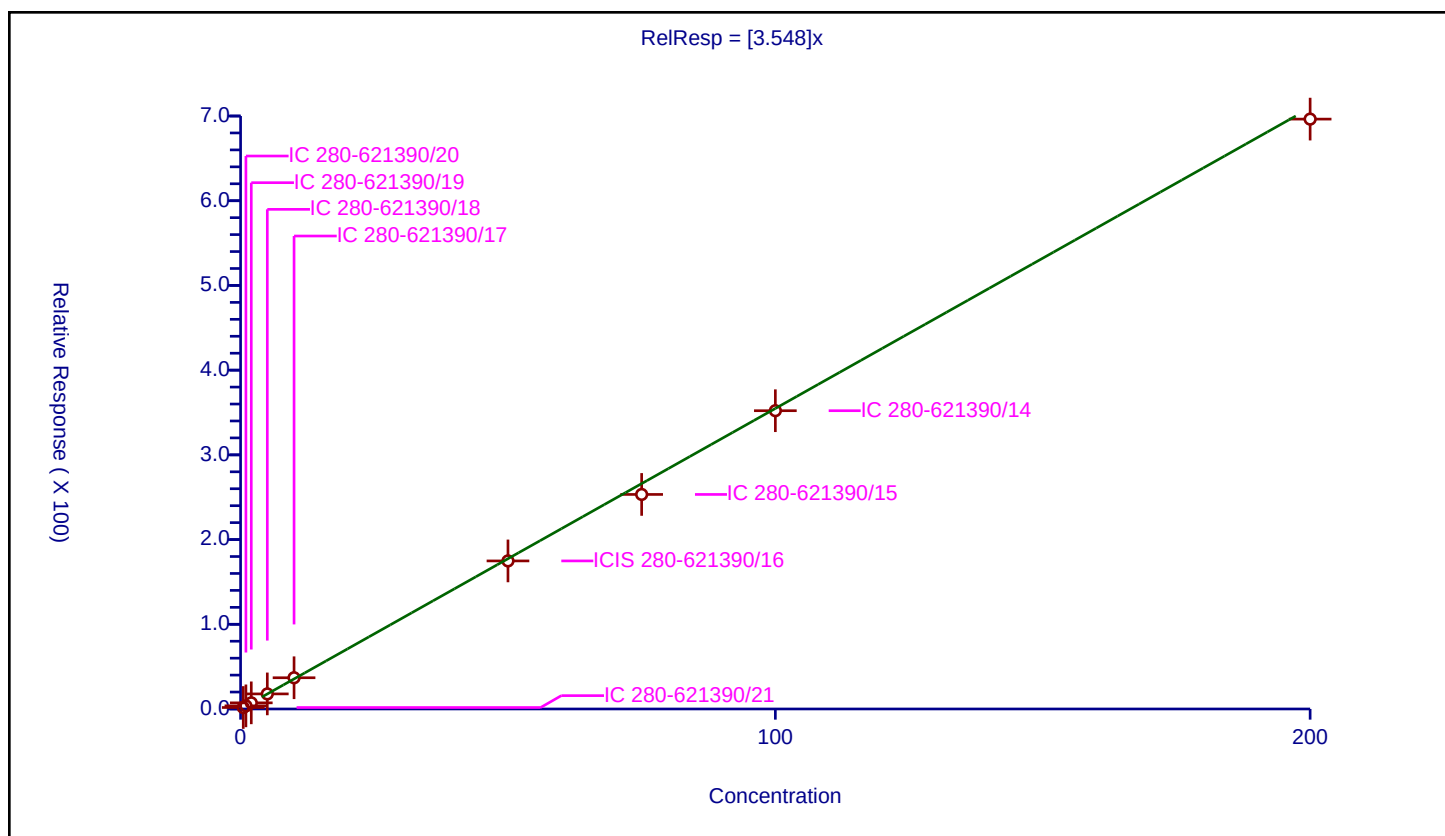
Curve Coefficients

Intercept: 0
 Slope: 3.548

Error Coefficients

Standard Error: 3260000
 Relative Standard Error: 2.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	1.744666	50.0	495453.0	3.489332	Y
2	IC 280-621390/20	1.0	3.68948	50.0	494365.0	3.68948	Y
3	IC 280-621390/19	2.0	7.25355	50.0	517133.0	3.626775	Y
4	IC 280-621390/18	5.0	17.79357	50.0	514315.0	3.558714	Y
5	IC 280-621390/17	10.0	36.883559	50.0	520873.0	3.688356	Y
6	ICIS 280-621390/16	50.0	174.803284	50.0	536814.0	3.496066	Y
7	IC 280-621390/15	75.0	253.268314	50.0	539529.0	3.376911	Y
8	IC 280-621390/14	100.0	352.117051	50.0	547318.0	3.521171	Y
9	IC 280-621390/13	200.0	696.354131	50.0	550774.0	3.481771	Y



Calibration

/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

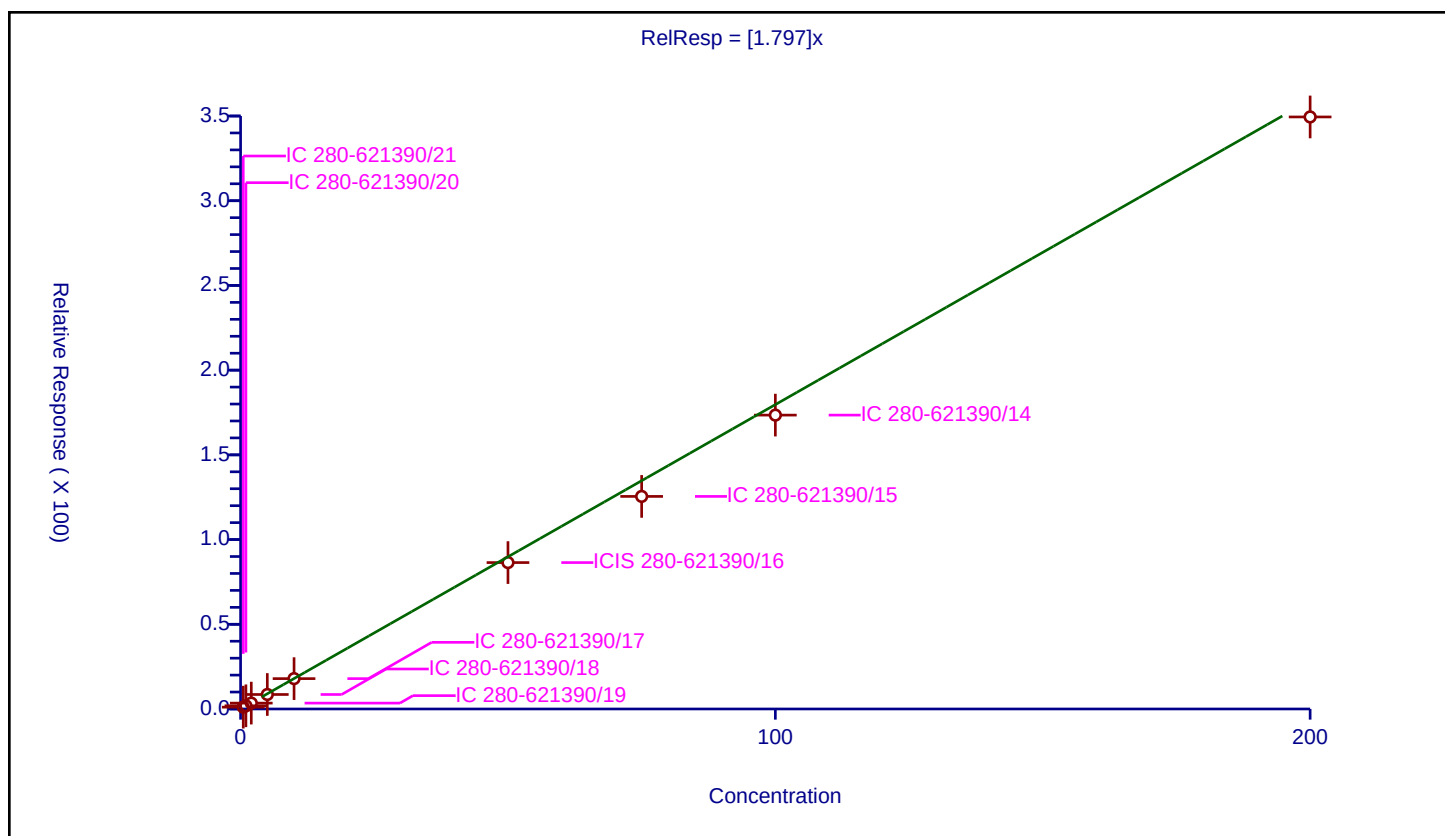
Curve Coefficients

Intercept: 0
 Slope: 1.797

Error Coefficients

Standard Error: 1630000
 Relative Standard Error: 8.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	1.084058	50.0	495453.0	2.168117	Y
2	IC 280-621390/20	1.0	1.879684	50.0	494365.0	1.879684	Y
3	IC 280-621390/19	2.0	3.46903	50.0	517133.0	1.734515	Y
4	IC 280-621390/18	5.0	8.560707	50.0	514315.0	1.712141	Y
5	IC 280-621390/17	10.0	17.924715	50.0	520873.0	1.792471	Y
6	ICIS 280-621390/16	50.0	86.413171	50.0	536814.0	1.728263	Y
7	IC 280-621390/15	75.0	125.476944	50.0	539529.0	1.673026	Y
8	IC 280-621390/14	100.0	173.466157	50.0	547318.0	1.734662	Y
9	IC 280-621390/13	200.0	349.449048	50.0	550774.0	1.747245	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

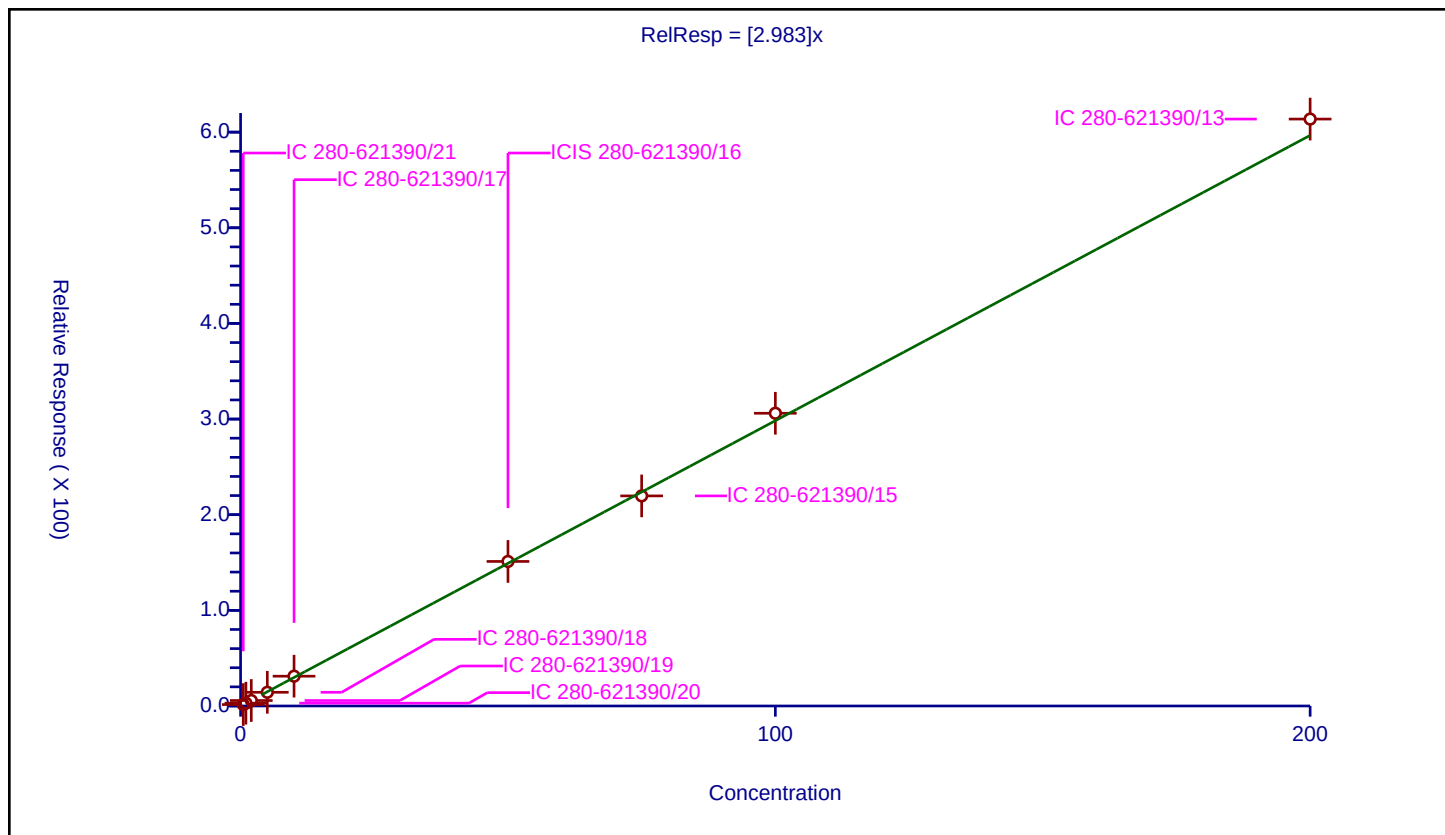
Curve Coefficients

Intercept: 0
Slope: 2.983

Error Coefficients

Standard Error: 2860000
Relative Standard Error: 3.1
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	1.497619	50.0	495453.0	2.995239	Y
2	IC 280-621390/20	1.0	2.932954	50.0	494365.0	2.932954	Y
3	IC 280-621390/19	2.0	5.720965	50.0	517133.0	2.860483	Y
4	IC 280-621390/18	5.0	14.306602	50.0	514315.0	2.86132	Y
5	IC 280-621390/17	10.0	31.159035	50.0	520873.0	3.115903	Y
6	ICIS 280-621390/16	50.0	151.14779	50.0	536814.0	3.022956	Y
7	IC 280-621390/15	75.0	219.677812	50.0	539529.0	2.929037	Y
8	IC 280-621390/14	100.0	306.069963	50.0	547318.0	3.0607	Y
9	IC 280-621390/13	200.0	613.671579	50.0	550774.0	3.068358	Y



Calibration

/ Bromoform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

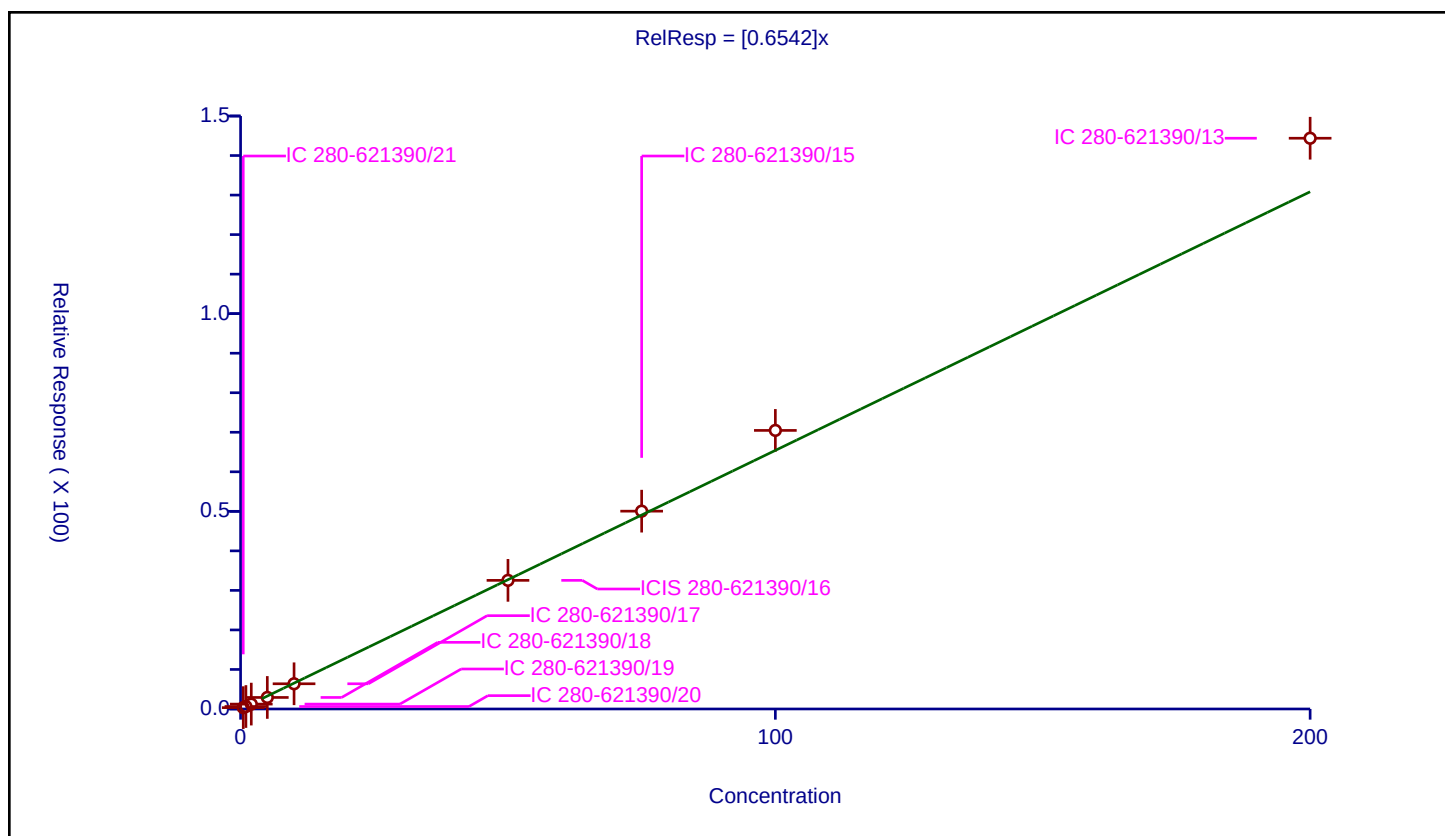
Curve Coefficients

Intercept: 0
 Slope: 0.6542

Error Coefficients

Standard Error: 666000
 Relative Standard Error: 6.7
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.339084	50.0	495453.0	0.678167	Y
2	IC 280-621390/20	1.0	0.626056	50.0	494365.0	0.626056	Y
3	IC 280-621390/19	2.0	1.234982	50.0	517133.0	0.617491	Y
4	IC 280-621390/18	5.0	2.916501	50.0	514315.0	0.5833	Y
5	IC 280-621390/17	10.0	6.37881	50.0	520873.0	0.637881	Y
6	ICIS 280-621390/16	50.0	32.534919	50.0	536814.0	0.650698	Y
7	IC 280-621390/15	75.0	50.04541	50.0	539529.0	0.667272	Y
8	IC 280-621390/14	100.0	70.471645	50.0	547318.0	0.704716	Y
9	IC 280-621390/13	200.0	144.382632	50.0	550774.0	0.721913	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

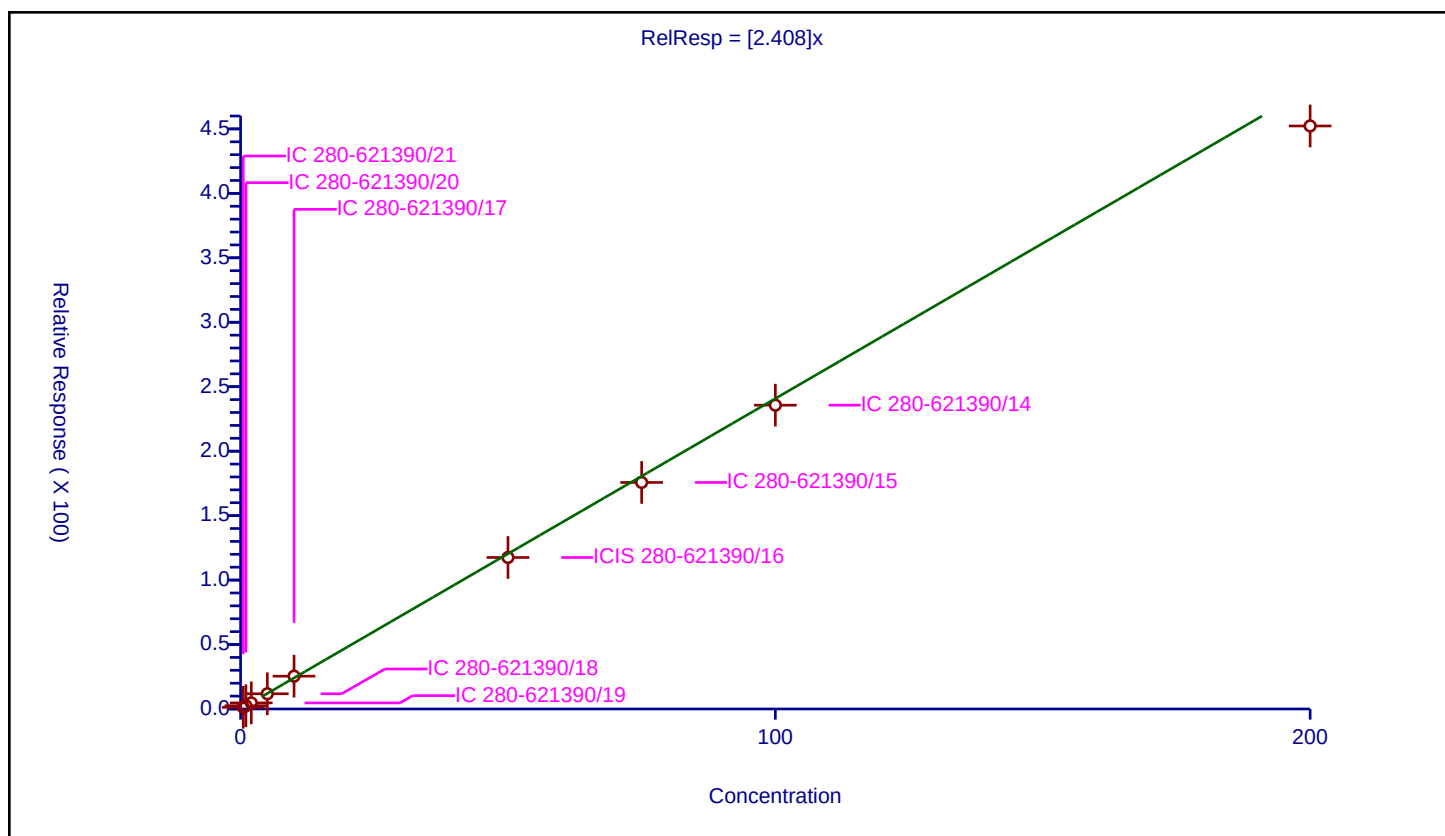
Curve Coefficients

Intercept: 0
 Slope: 2.408

Error Coefficients

Standard Error: 3950000
 Relative Standard Error: 4.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	1.293178	50.0	893883.0	2.586356	Y
2	IC 280-621390/20	1.0	2.506054	50.0	896449.0	2.506054	Y
3	IC 280-621390/19	2.0	4.728541	50.0	938059.0	2.36427	Y
4	IC 280-621390/18	5.0	11.795524	50.0	932981.0	2.359105	Y
5	IC 280-621390/17	10.0	25.462792	50.0	943188.0	2.546279	Y
6	ICIS 280-621390/16	50.0	117.532933	50.0	984513.0	2.350659	Y
7	IC 280-621390/15	75.0	175.736155	50.0	966271.0	2.343149	Y
8	IC 280-621390/14	100.0	235.667307	50.0	998476.0	2.356673	Y
9	IC 280-621390/13	200.0	452.285454	50.0	1023473.0	2.261427	Y



Calibration

/ Cyclohexanone

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

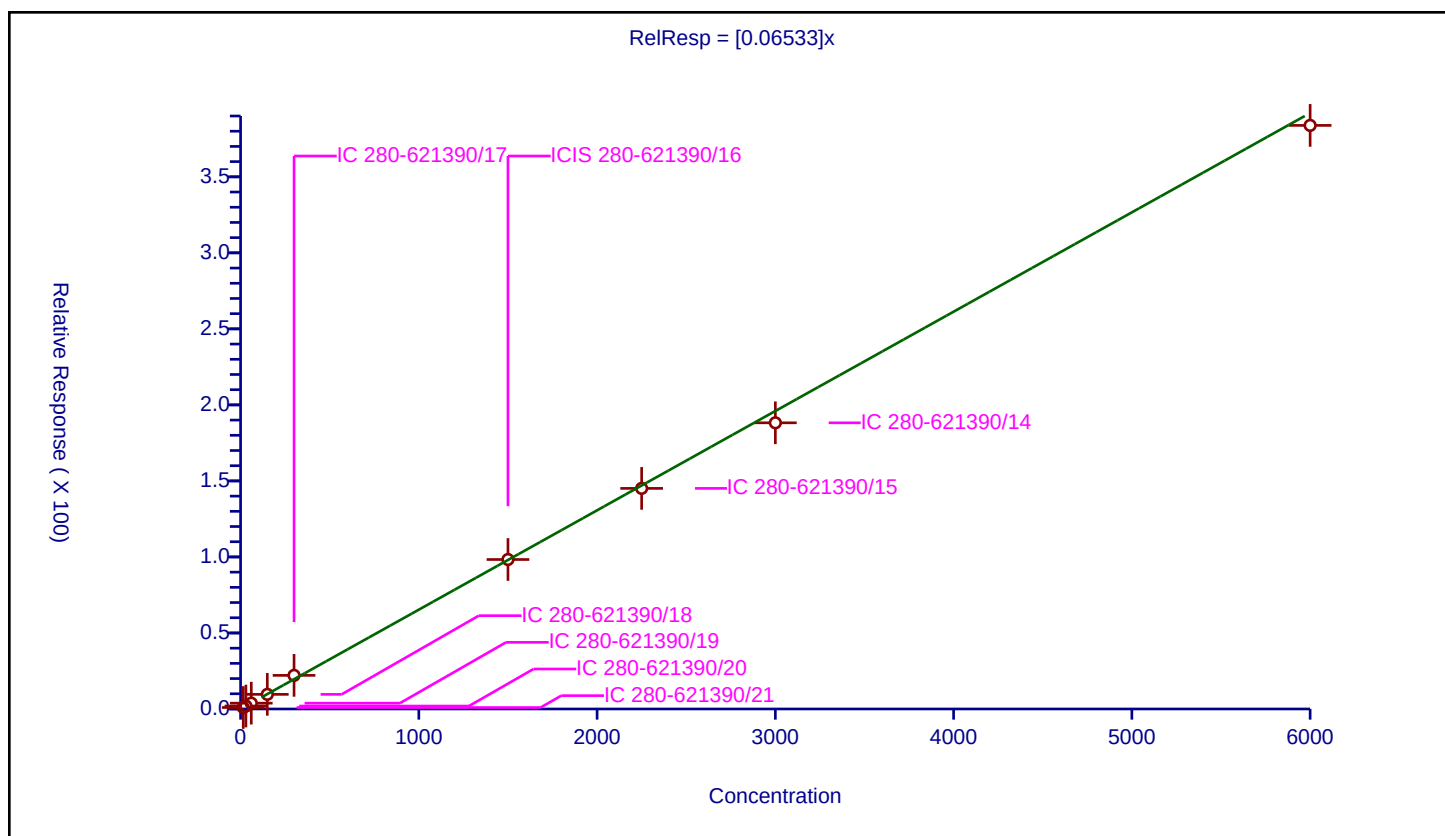
Curve Coefficients

Intercept: 0
Slope: 0.06533

Error Coefficients

Standard Error: 1790000
Relative Standard Error: 4.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	15.0	0.971131	50.0	495453.0	0.064742	Y
2	IC 280-621390/20	30.0	1.945728	50.0	494365.0	0.064858	Y
3	IC 280-621390/19	60.0	3.826095	50.0	517133.0	0.063768	Y
4	IC 280-621390/18	150.0	9.620952	50.0	514315.0	0.06414	Y
5	IC 280-621390/17	300.0	22.105484	50.0	520873.0	0.073685	Y
6	ICIS 280-621390/16	1500.0	98.320275	50.0	536814.0	0.065547	Y
7	IC 280-621390/15	2250.0	145.095444	50.0	539529.0	0.064487	Y
8	IC 280-621390/14	3000.0	188.223117	50.0	547318.0	0.062741	Y
9	IC 280-621390/13	6000.0	383.821949	50.0	550774.0	0.06397	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

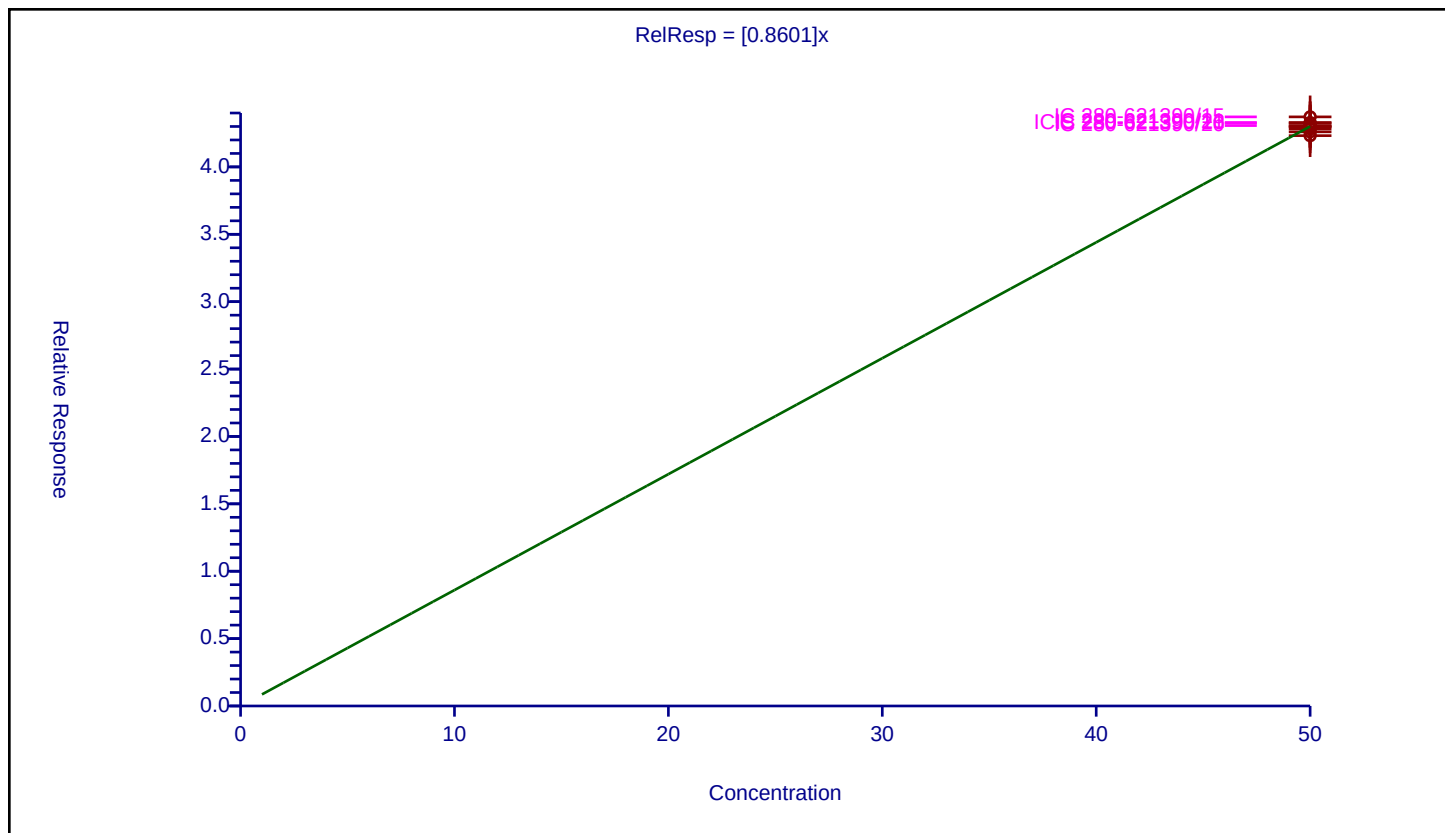
Curve Coefficients

Intercept: 0
 Slope: 0.8601

Error Coefficients

Standard Error: 870000
 Relative Standard Error: 0.9
 Correlation Coefficient: 0.00000000000000000000
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/13	50.0	42.320218	50.0	1023473.0	0.846404	Y
2	IC 280-621390/14	50.0	42.973391	50.0	998476.0	0.859468	Y
3	IC 280-621390/15	50.0	43.714031	50.0	966271.0	0.874281	Y
4	ICIS 280-621390/16	50.0	43.246001	50.0	984513.0	0.86492	Y
5	IC 280-621390/17	50.0	42.603808	50.0	943188.0	0.852076	Y
6	IC 280-621390/18	50.0	43.00109	50.0	932981.0	0.860022	Y
7	IC 280-621390/19	50.0	42.820174	50.0	938059.0	0.856403	Y
8	IC 280-621390/20	50.0	43.0667	50.0	896449.0	0.861334	Y
9	IC 280-621390/21	50.0	43.294704	50.0	893883.0	0.865894	Y



Calibration

/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

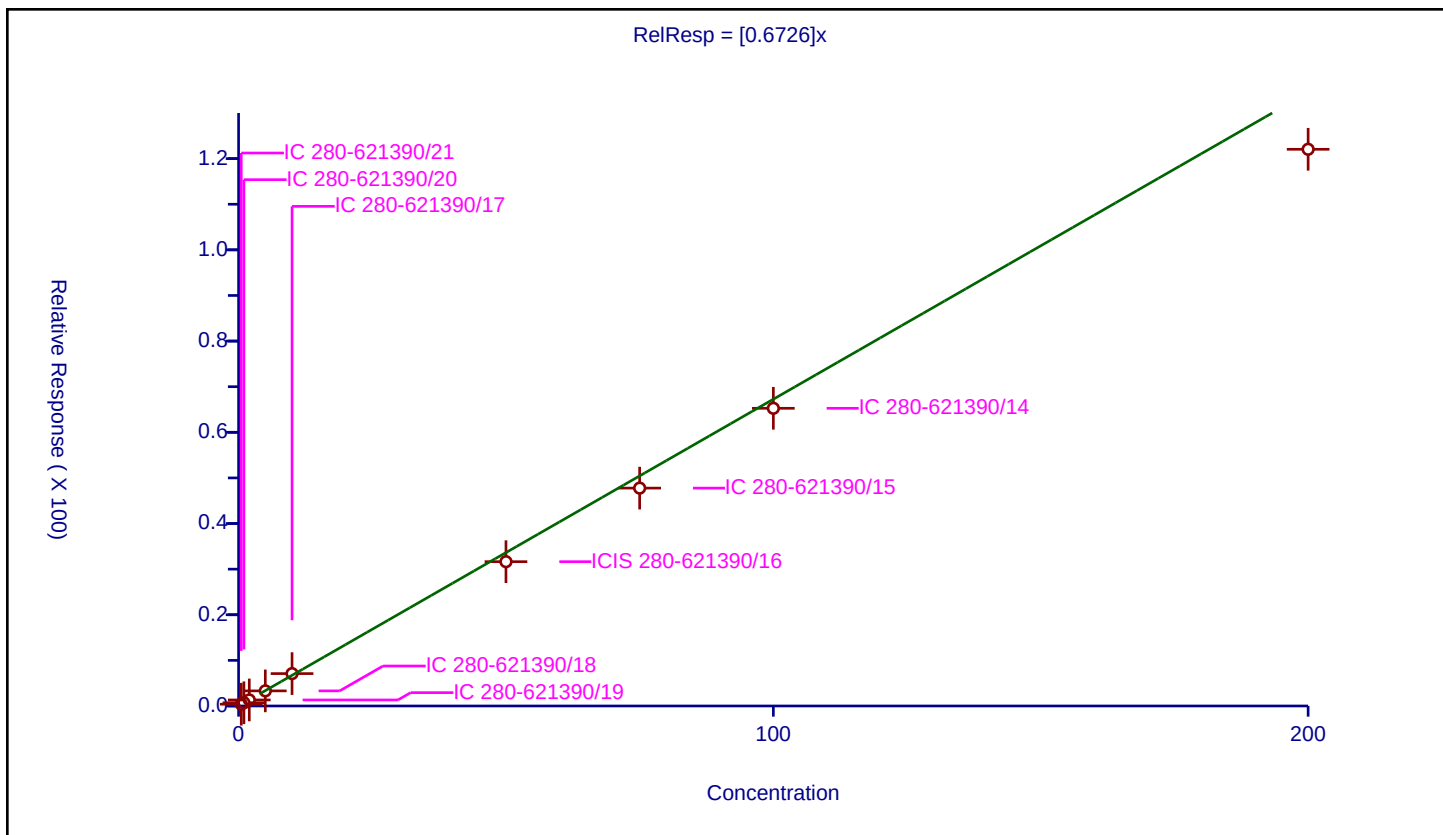
Curve Coefficients

Intercept: 0
Slope: 0.6726

Error Coefficients

Standard Error: 1070000
Relative Standard Error: 7.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.388586	50.0	893883.0	0.777171	Y
2	IC 280-621390/20	1.0	0.707681	50.0	896449.0	0.707681	Y
3	IC 280-621390/19	2.0	1.325023	50.0	938059.0	0.662512	Y
4	IC 280-621390/18	5.0	3.314698	50.0	932981.0	0.66294	Y
5	IC 280-621390/17	10.0	7.102985	50.0	943188.0	0.710298	Y
6	ICIS 280-621390/16	50.0	31.636758	50.0	984513.0	0.632735	Y
7	IC 280-621390/15	75.0	47.768276	50.0	966271.0	0.63691	Y
8	IC 280-621390/14	100.0	65.263962	50.0	998476.0	0.65264	Y
9	IC 280-621390/13	200.0	122.047382	50.0	1023473.0	0.610237	Y



Calibration

/ Bromobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

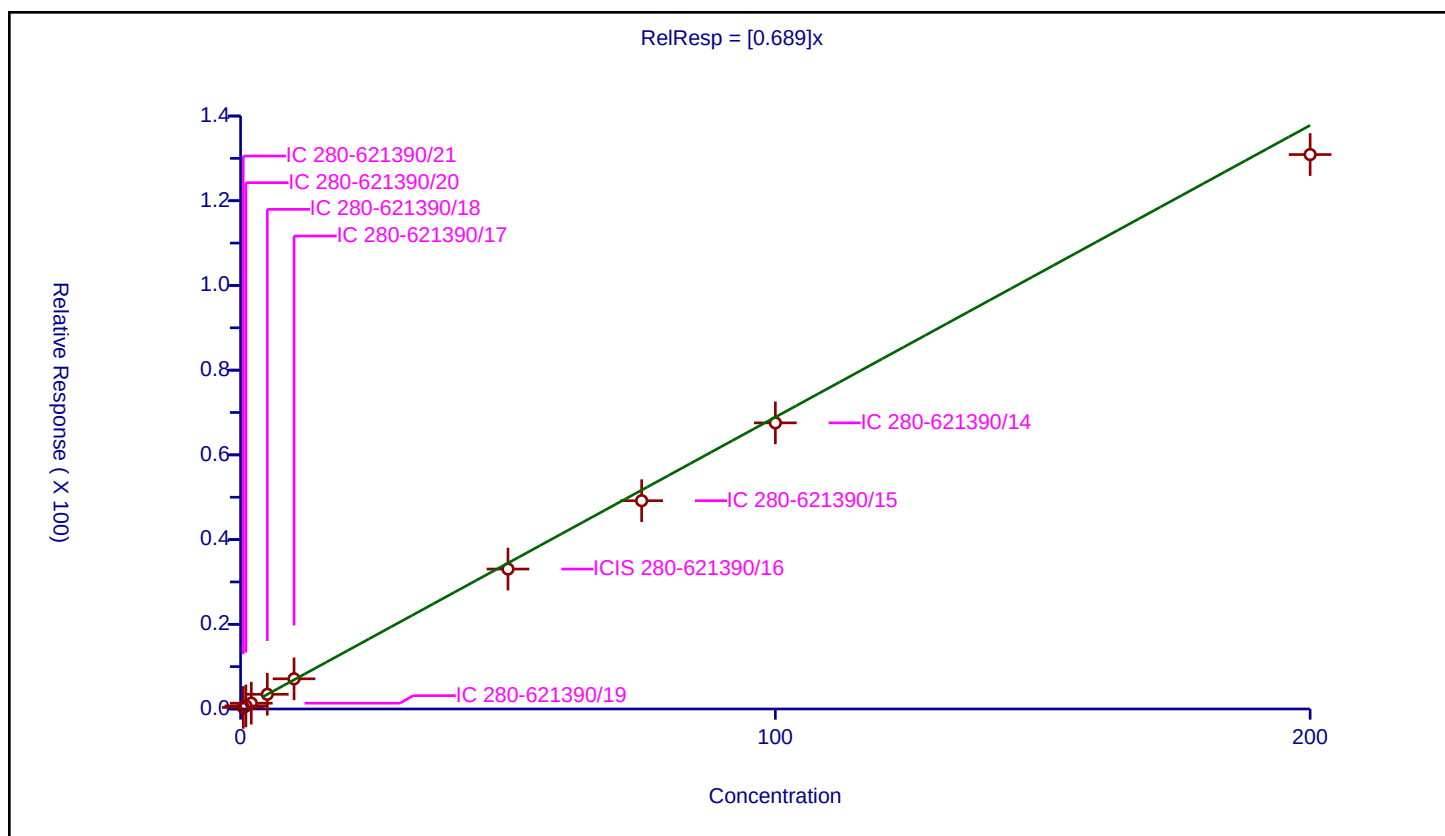
Curve Coefficients

Intercept: 0
 Slope: 0.689

Error Coefficients

Standard Error: 1140000
 Relative Standard Error: 4.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.366771	50.0	893883.0	0.733541	Y
2	IC 280-621390/20	1.0	0.729434	50.0	896449.0	0.729434	Y
3	IC 280-621390/19	2.0	1.37001	50.0	938059.0	0.685005	Y
4	IC 280-621390/18	5.0	3.471132	50.0	932981.0	0.694226	Y
5	IC 280-621390/17	10.0	7.123553	50.0	943188.0	0.712355	Y
6	ICIS 280-621390/16	50.0	33.040143	50.0	984513.0	0.660803	Y
7	IC 280-621390/15	75.0	49.173989	50.0	966271.0	0.655653	Y
8	IC 280-621390/14	100.0	67.551799	50.0	998476.0	0.675518	Y
9	IC 280-621390/13	200.0	130.905359	50.0	1023473.0	0.654527	Y



Calibration

/ trans-1,4-Dichloro-2-butene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

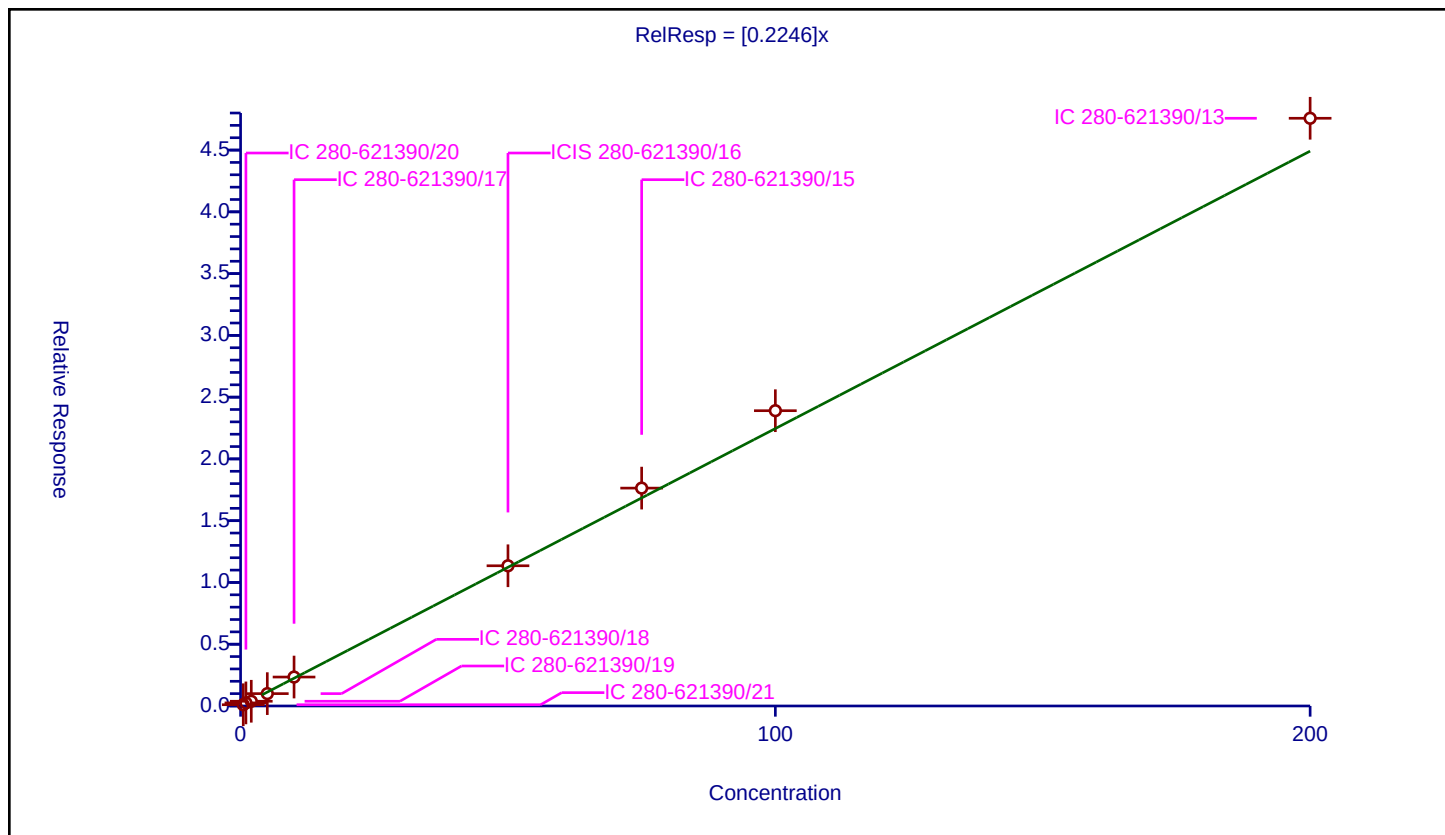
Curve Coefficients

Intercept: 0
 Slope: 0.2246

Error Coefficients

Standard Error: 410000
 Relative Standard Error: 9.1
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.10309	50.0	893883.0	0.206179	Y
2	IC 280-621390/20	1.0	0.250377	50.0	896449.0	0.250377	Y
3	IC 280-621390/19	2.0	0.382225	50.0	938059.0	0.191113	Y
4	IC 280-621390/18	5.0	1.000878	50.0	932981.0	0.200176	Y
5	IC 280-621390/17	10.0	2.342481	50.0	943188.0	0.234248	Y
6	ICIS 280-621390/16	50.0	11.349977	50.0	984513.0	0.227	Y
7	IC 280-621390/15	75.0	17.635943	50.0	966271.0	0.235146	Y
8	IC 280-621390/14	100.0	23.903579	50.0	998476.0	0.239036	Y
9	IC 280-621390/13	200.0	47.575608	50.0	1023473.0	0.237878	Y



Calibration

/ 1,2,3-Trichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

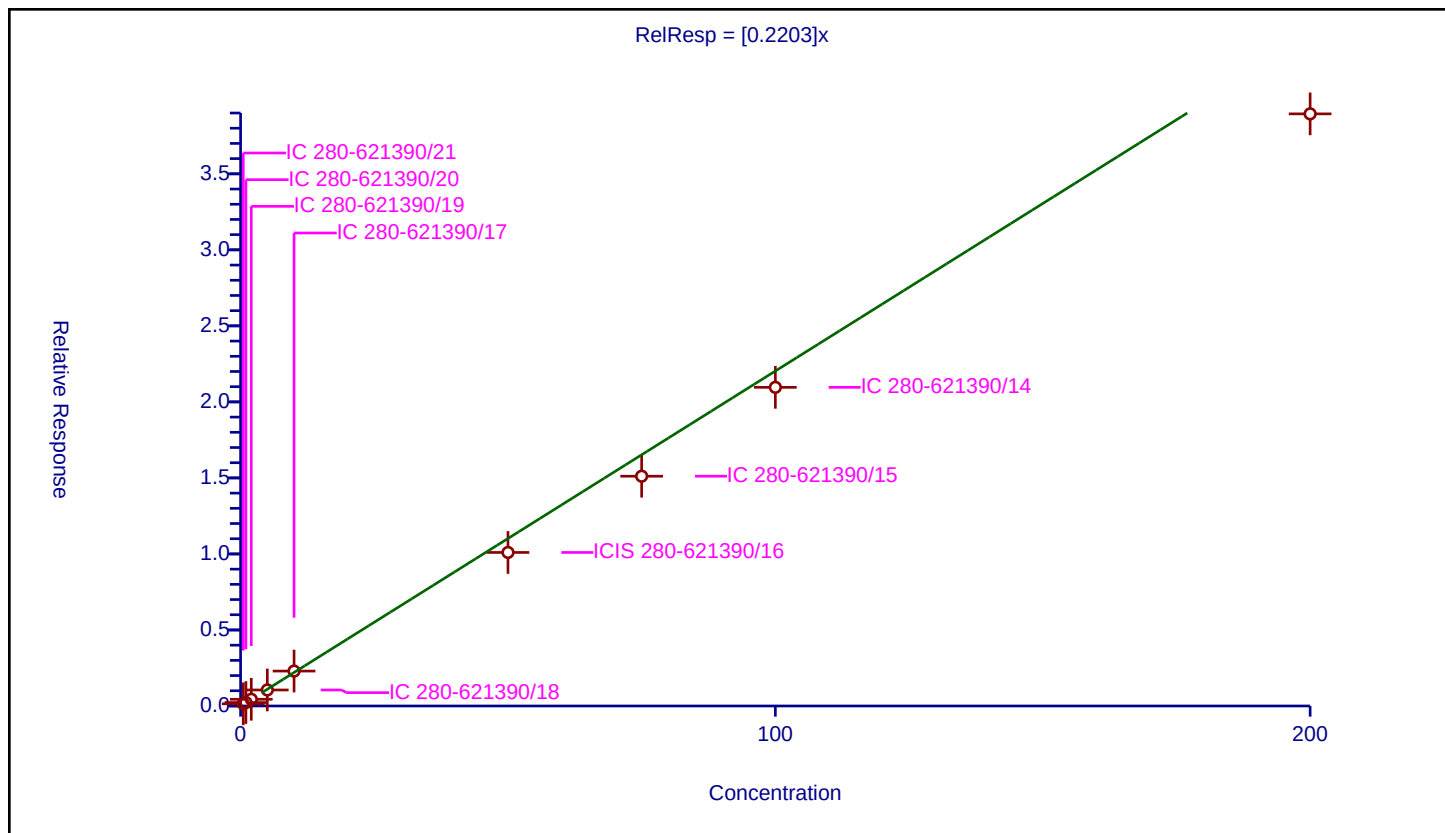
Curve Coefficients

Intercept: 0
 Slope: 0.2203

Error Coefficients

Standard Error: 342000
 Relative Standard Error: 12.4
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.14286	50.0	893883.0	0.28572	Y
2	IC 280-621390/20	1.0	0.227899	50.0	896449.0	0.227899	Y
3	IC 280-621390/19	2.0	0.441763	50.0	938059.0	0.220882	Y
4	IC 280-621390/18	5.0	1.053558	50.0	932981.0	0.210712	Y
5	IC 280-621390/17	10.0	2.297474	50.0	943188.0	0.229747	Y
6	ICIS 280-621390/16	50.0	10.098546	50.0	984513.0	0.201971	Y
7	IC 280-621390/15	75.0	15.112789	50.0	966271.0	0.201504	Y
8	IC 280-621390/14	100.0	20.957339	50.0	998476.0	0.209573	Y
9	IC 280-621390/13	200.0	38.944652	50.0	1023473.0	0.194723	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

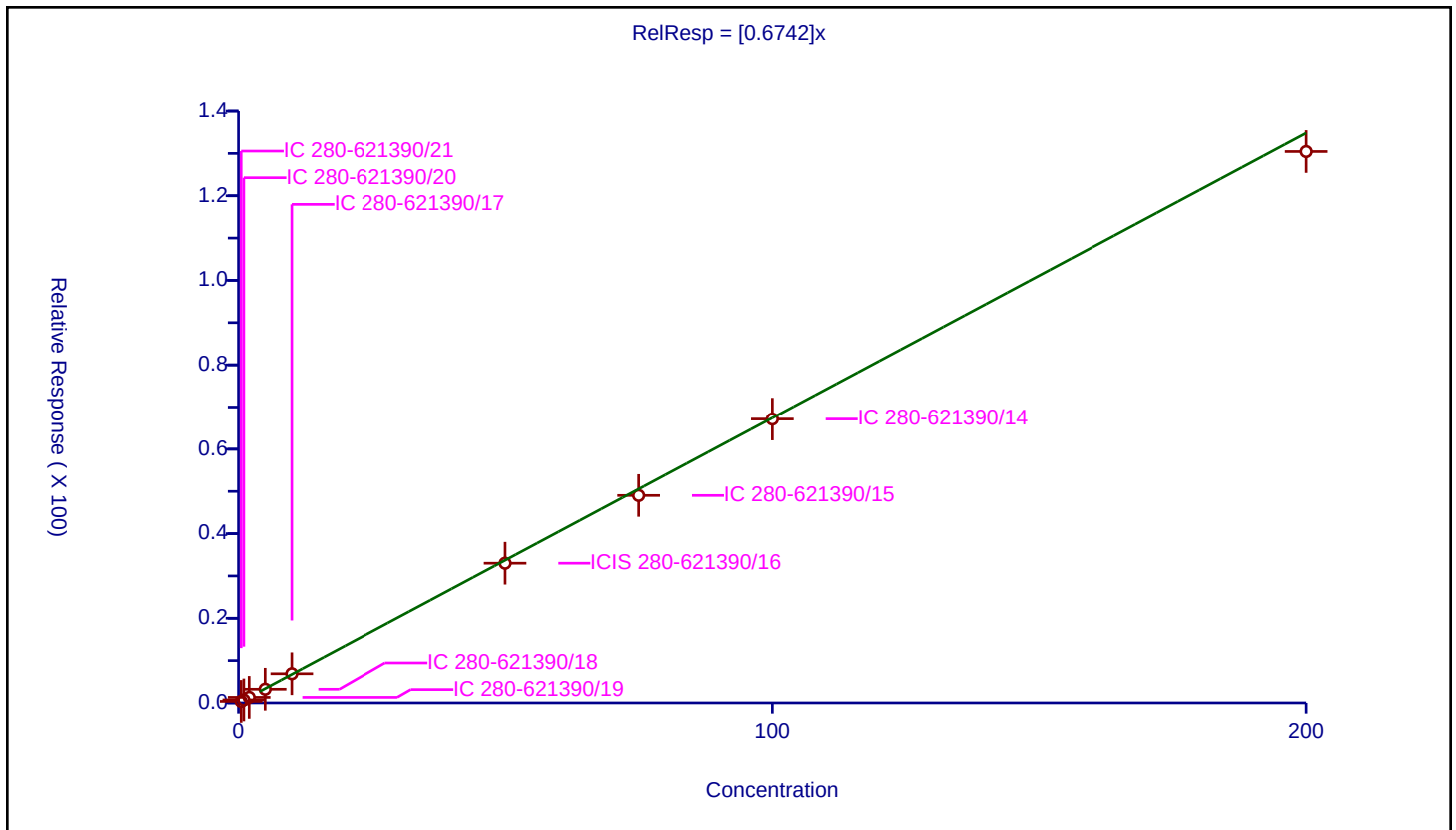
Curve Coefficients

Intercept: 0
 Slope: 0.6742

Error Coefficients

Standard Error: 1130000
 Relative Standard Error: 4.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.364533	50.0	893883.0	0.729066	Y
2	IC 280-621390/20	1.0	0.708462	50.0	896449.0	0.708462	Y
3	IC 280-621390/19	2.0	1.312604	50.0	938059.0	0.656302	Y
4	IC 280-621390/18	5.0	3.234525	50.0	932981.0	0.646905	Y
5	IC 280-621390/17	10.0	6.890885	50.0	943188.0	0.689088	Y
6	ICIS 280-621390/16	50.0	33.006268	50.0	984513.0	0.660125	Y
7	IC 280-621390/15	75.0	49.034277	50.0	966271.0	0.65379	Y
8	IC 280-621390/14	100.0	67.13882	50.0	998476.0	0.671388	Y
9	IC 280-621390/13	200.0	130.452196	50.0	1023473.0	0.652261	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

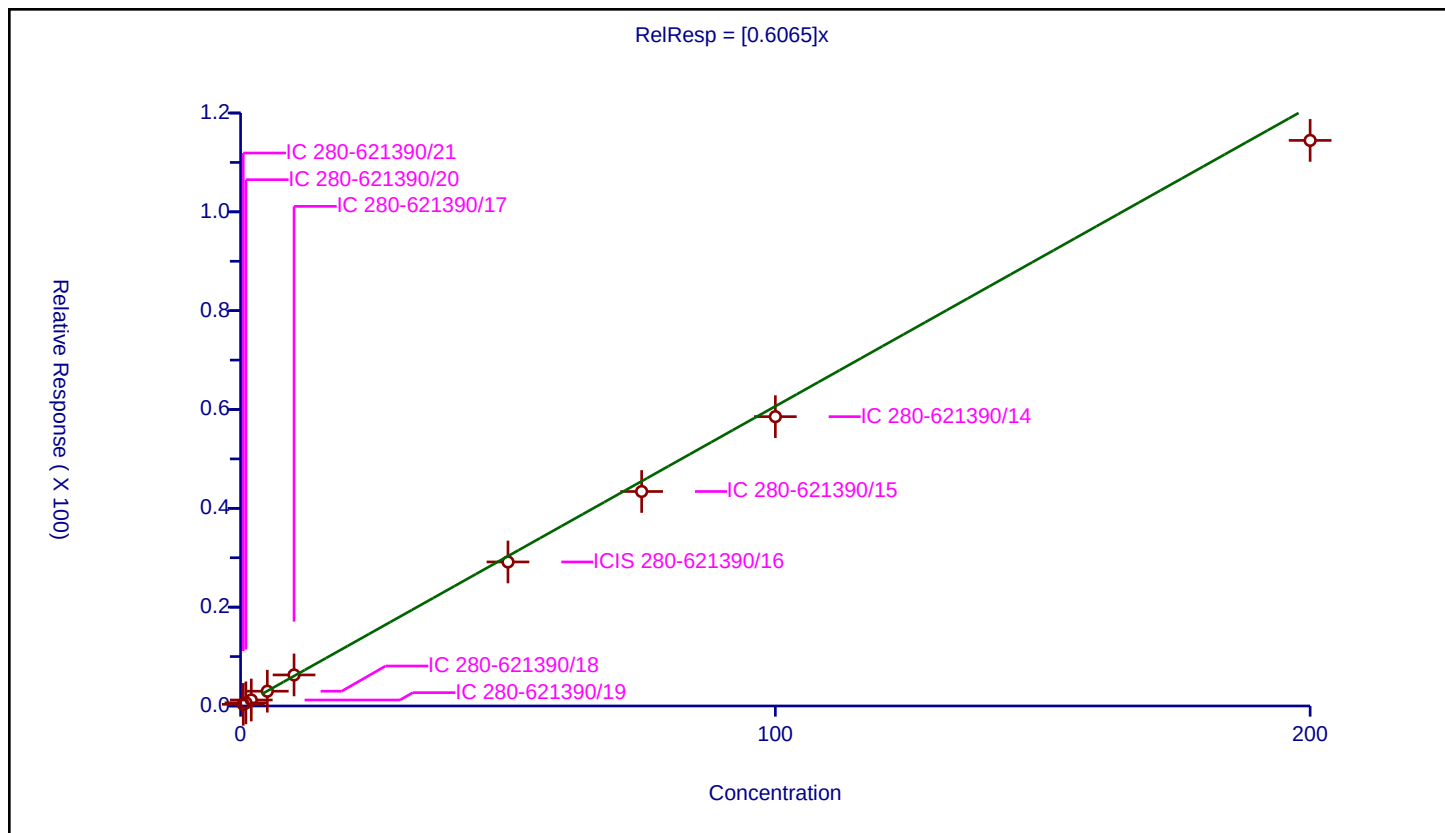
Curve Coefficients

Intercept: 0
 Slope: 0.6065

Error Coefficients

Standard Error: 994000
 Relative Standard Error: 5.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.33388	50.0	893883.0	0.667761	Y
2	IC 280-621390/20	1.0	0.637906	50.0	896449.0	0.637906	Y
3	IC 280-621390/19	2.0	1.212504	50.0	938059.0	0.606252	Y
4	IC 280-621390/18	5.0	2.994112	50.0	932981.0	0.598822	Y
5	IC 280-621390/17	10.0	6.285438	50.0	943188.0	0.628544	Y
6	ICIS 280-621390/16	50.0	29.148218	50.0	984513.0	0.582964	Y
7	IC 280-621390/15	75.0	43.407543	50.0	966271.0	0.578767	Y
8	IC 280-621390/14	100.0	58.554938	50.0	998476.0	0.585549	Y
9	IC 280-621390/13	200.0	114.455779	50.0	1023473.0	0.572279	Y



Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

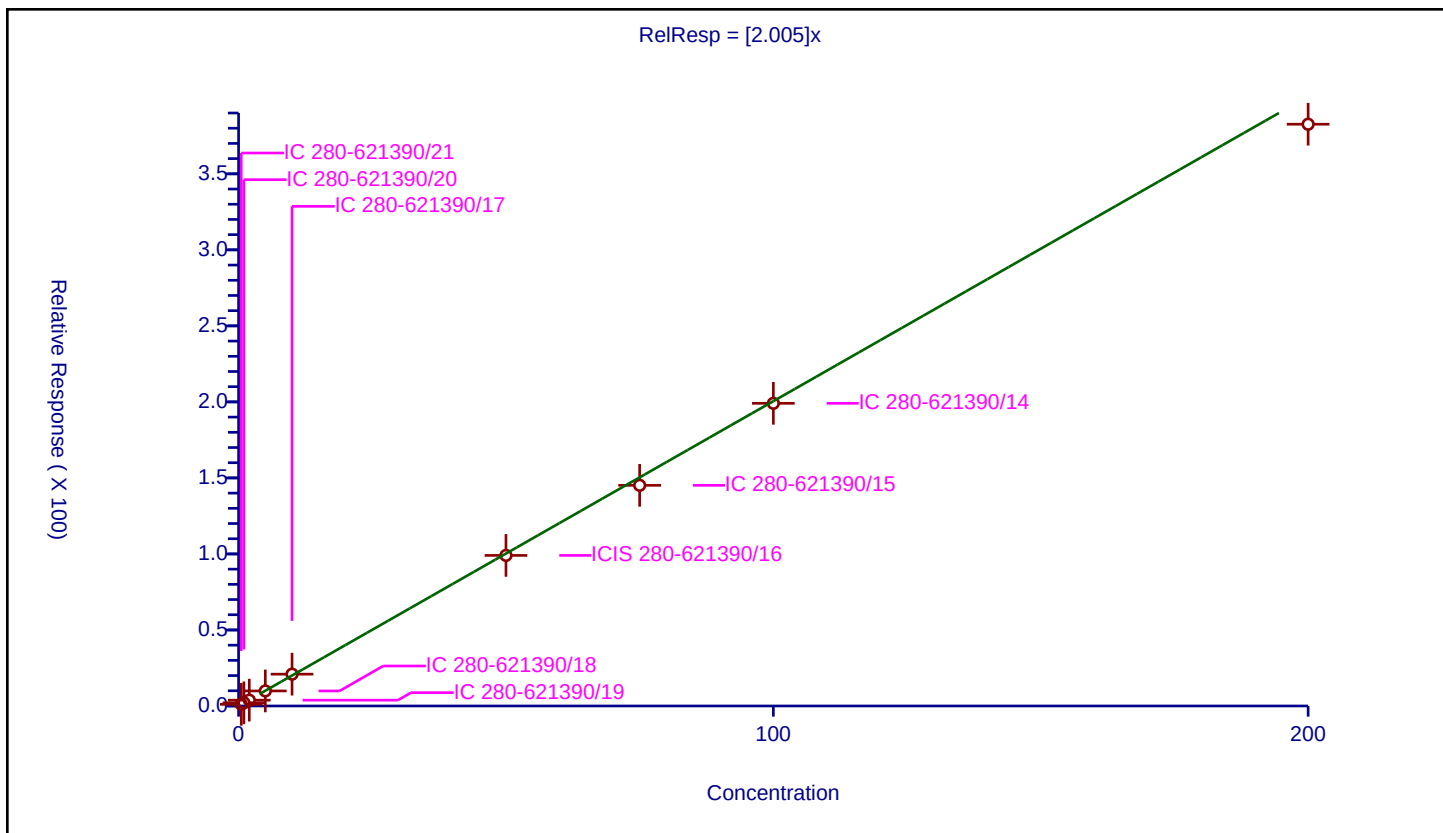
Curve Coefficients

Intercept: 0
Slope: 2.005

Error Coefficients

Standard Error: 3340000
Relative Standard Error: 4.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	1.074134	50.0	893883.0	2.148268	Y
2	IC 280-621390/20	1.0	2.090916	50.0	896449.0	2.090916	Y
3	IC 280-621390/19	2.0	3.823747	50.0	938059.0	1.911873	Y
4	IC 280-621390/18	5.0	9.899237	50.0	932981.0	1.979847	Y
5	IC 280-621390/17	10.0	20.924248	50.0	943188.0	2.092425	Y
6	ICIS 280-621390/16	50.0	99.028454	50.0	984513.0	1.980569	Y
7	IC 280-621390/15	75.0	145.127971	50.0	966271.0	1.93504	Y
8	IC 280-621390/14	100.0	199.072486	50.0	998476.0	1.990725	Y
9	IC 280-621390/13	200.0	382.625873	50.0	1023473.0	1.913129	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

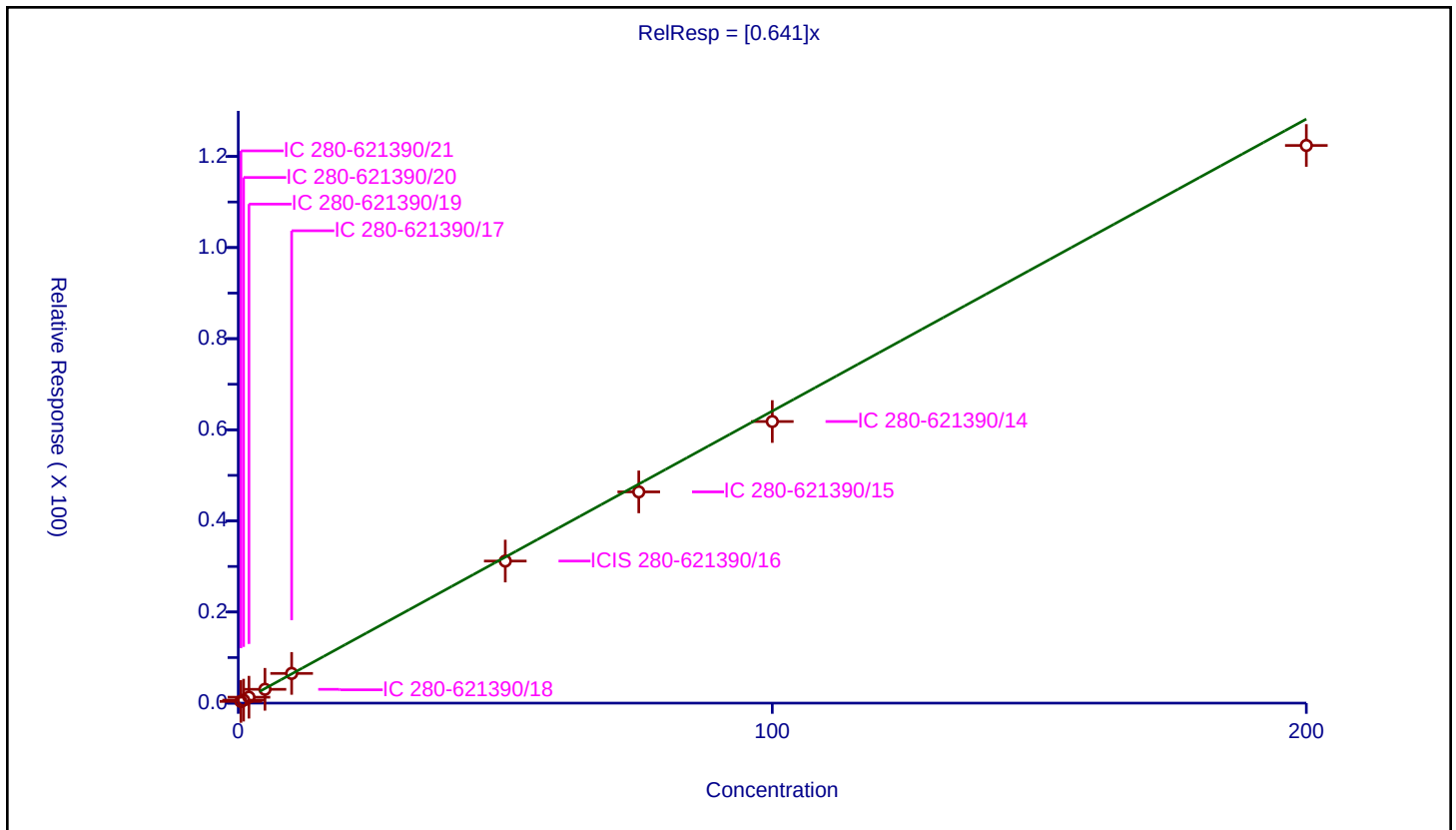
Curve Coefficients

Intercept: 0
 Slope: 0.641

Error Coefficients

Standard Error: 1060000
 Relative Standard Error: 6.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.368393	50.0	893883.0	0.736785	Y
2	IC 280-621390/20	1.0	0.649953	50.0	896449.0	0.649953	Y
3	IC 280-621390/19	2.0	1.303543	50.0	938059.0	0.651771	Y
4	IC 280-621390/18	5.0	3.03377	50.0	932981.0	0.606754	Y
5	IC 280-621390/17	10.0	6.519008	50.0	943188.0	0.651901	Y
6	ICIS 280-621390/16	50.0	31.185419	50.0	984513.0	0.623708	Y
7	IC 280-621390/15	75.0	46.369962	50.0	966271.0	0.618266	Y
8	IC 280-621390/14	100.0	61.81746	50.0	998476.0	0.618175	Y
9	IC 280-621390/13	200.0	122.409971	50.0	1023473.0	0.61205	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

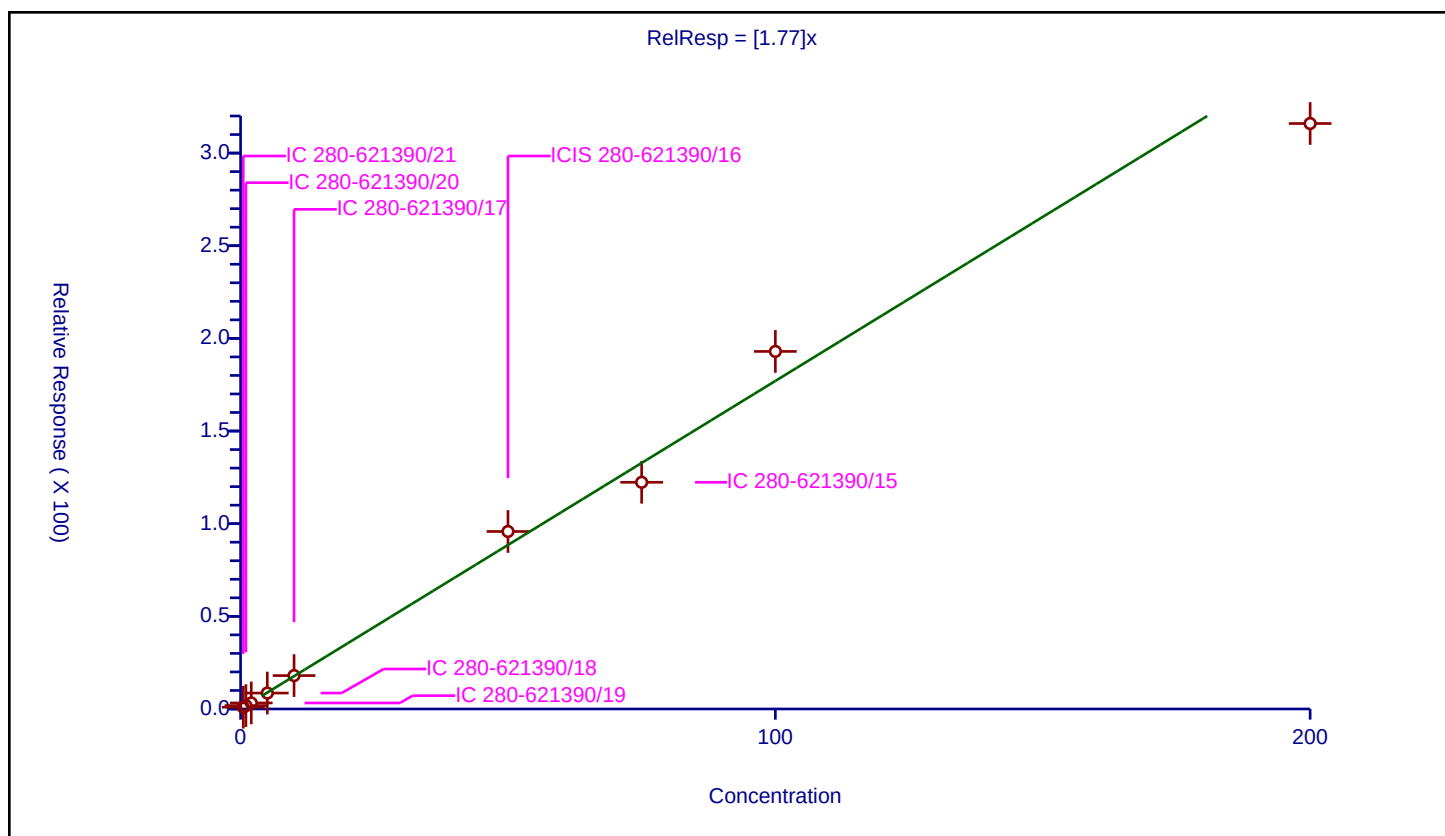
Curve Coefficients

Intercept: 0
Slope: 1.77

Error Coefficients

Standard Error: 2870000
Relative Standard Error: 7.6
Correlation Coefficient: 0.991
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.949789	50.0	893883.0	1.899577	Y
2	IC 280-621390/20	1.0	1.823472	50.0	896449.0	1.823472	Y
3	IC 280-621390/19	2.0	3.26408	50.0	938059.0	1.63204	Y
4	IC 280-621390/18	5.0	8.593155	50.0	932981.0	1.718631	Y
5	IC 280-621390/17	10.0	18.025993	50.0	943188.0	1.802599	Y
6	ICIS 280-621390/16	50.0	95.794621	50.0	984513.0	1.915892	Y
7	IC 280-621390/15	75.0	122.341041	50.0	966271.0	1.631214	Y
8	IC 280-621390/14	100.0	192.960322	50.0	998476.0	1.929603	Y
9	IC 280-621390/13	200.0	315.955233	50.0	1023473.0	1.579776	Y



Calibration

/ 1,2,4-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

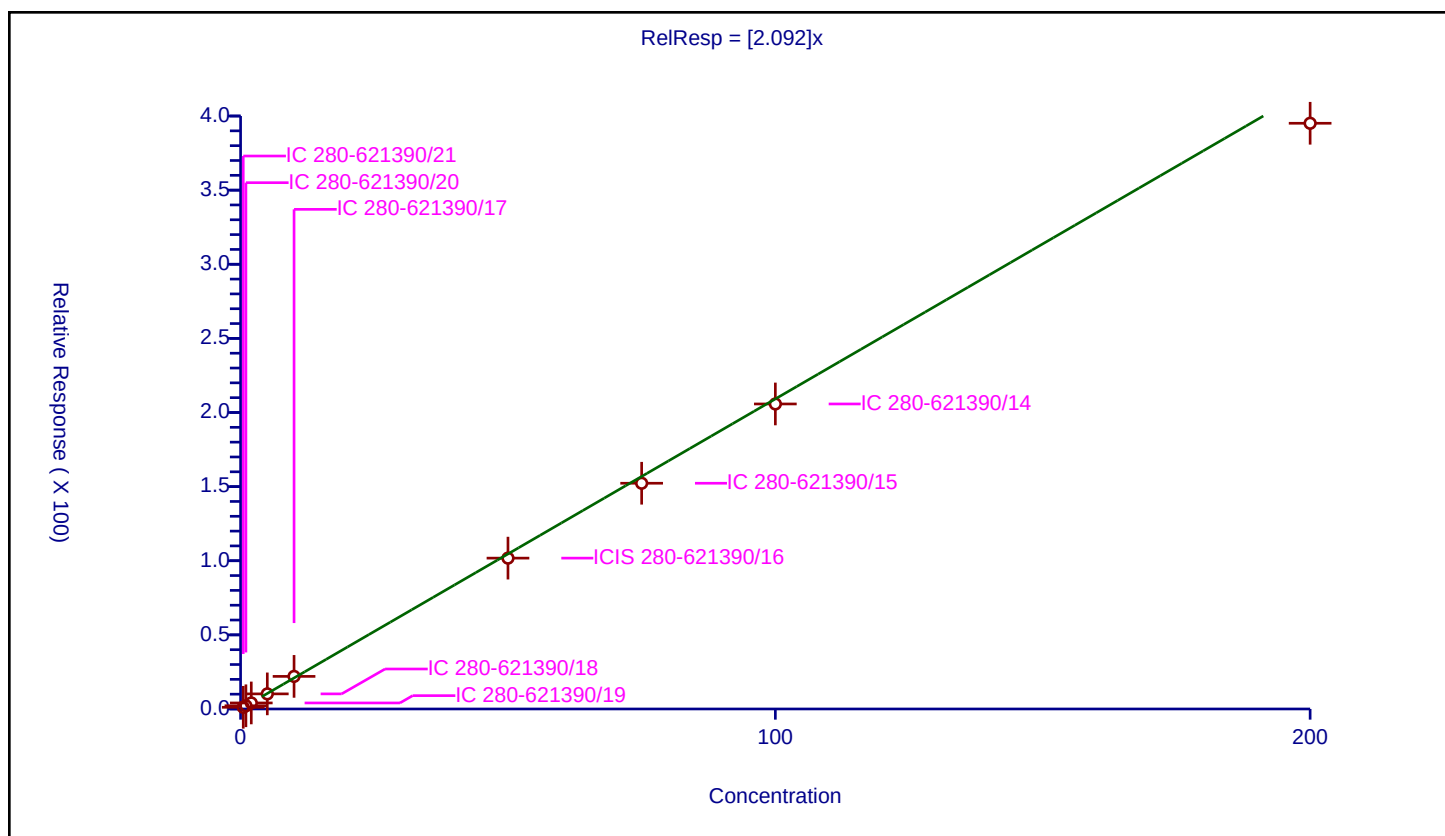
Curve Coefficients

Intercept: 0
Slope: 2.092

Error Coefficients

Standard Error: 3450000
Relative Standard Error: 4.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	1.144501	50.0	893883.0	2.289002	Y
2	IC 280-621390/20	1.0	2.162923	50.0	896449.0	2.162923	Y
3	IC 280-621390/19	2.0	4.075543	50.0	938059.0	2.037772	Y
4	IC 280-621390/18	5.0	10.181987	50.0	932981.0	2.036397	Y
5	IC 280-621390/17	10.0	21.988193	50.0	943188.0	2.198819	Y
6	ICIS 280-621390/16	50.0	101.763816	50.0	984513.0	2.035276	Y
7	IC 280-621390/15	75.0	152.279588	50.0	966271.0	2.030395	Y
8	IC 280-621390/14	100.0	205.758977	50.0	998476.0	2.05759	Y
9	IC 280-621390/13	200.0	395.109299	50.0	1023473.0	1.975546	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

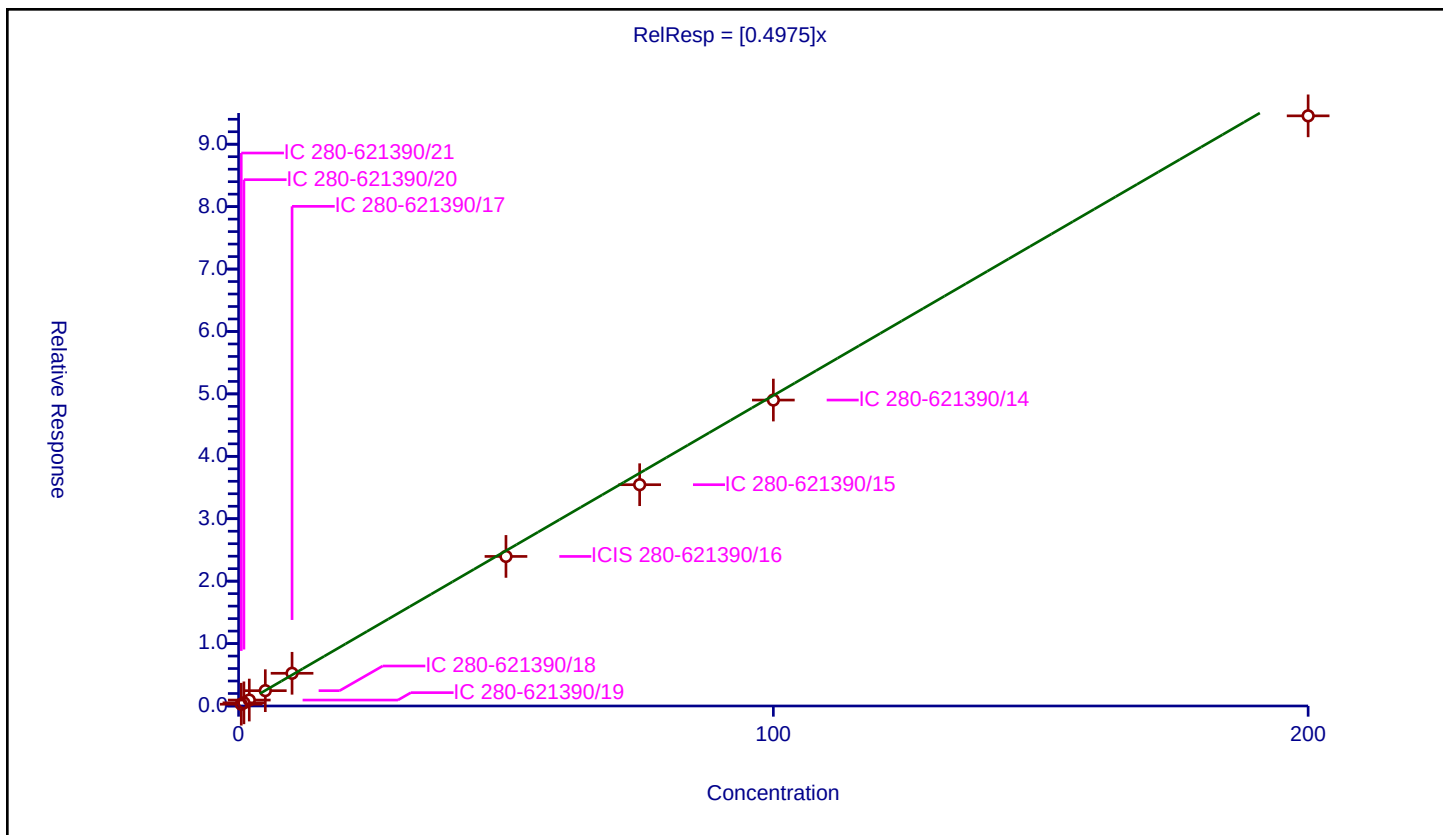
Curve Coefficients

Intercept: 0
 Slope: 0.4975

Error Coefficients

Standard Error: 822000
 Relative Standard Error: 6.2
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.282531	50.0	893883.0	0.565063	Y
2	IC 280-621390/20	1.0	0.507391	50.0	896449.0	0.507391	Y
3	IC 280-621390/19	2.0	0.949407	50.0	938059.0	0.474704	Y
4	IC 280-621390/18	5.0	2.455195	50.0	932981.0	0.491039	Y
5	IC 280-621390/17	10.0	5.241373	50.0	943188.0	0.524137	Y
6	ICIS 280-621390/16	50.0	23.961085	50.0	984513.0	0.479222	Y
7	IC 280-621390/15	75.0	35.454857	50.0	966271.0	0.472731	Y
8	IC 280-621390/14	100.0	49.012145	50.0	998476.0	0.490121	Y
9	IC 280-621390/13	200.0	94.545288	50.0	1023473.0	0.472726	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

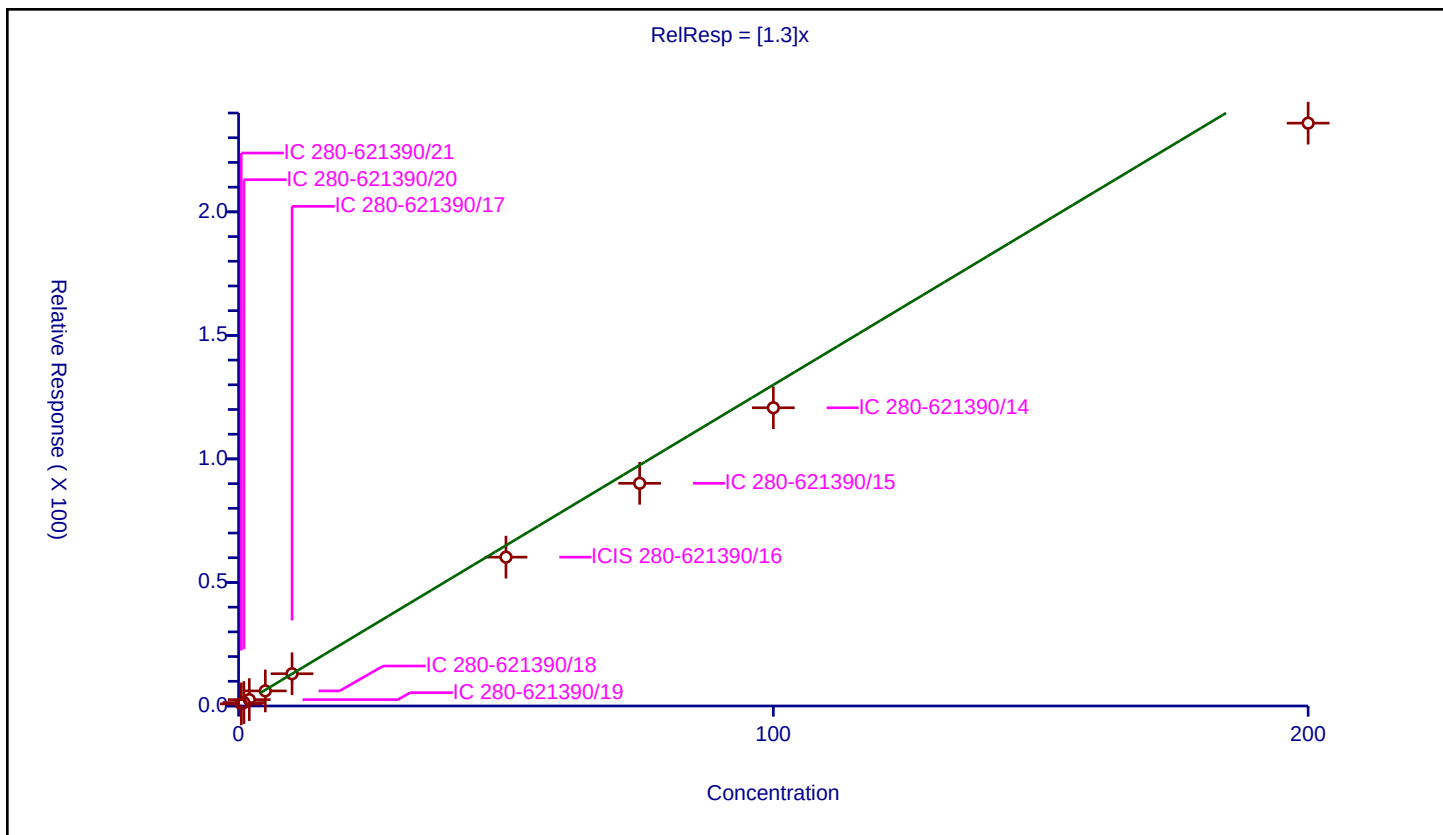
Curve Coefficients

Intercept: 0
 Slope: 1.3

Error Coefficients

Standard Error: 2050000
 Relative Standard Error: 12.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.851174	50.0	893883.0	1.702348	Y
2	IC 280-621390/20	1.0	1.389594	50.0	896449.0	1.389594	Y
3	IC 280-621390/19	2.0	2.572813	50.0	938059.0	1.286406	Y
4	IC 280-621390/18	5.0	6.106448	50.0	932981.0	1.22129	Y
5	IC 280-621390/17	10.0	13.051481	50.0	943188.0	1.305148	Y
6	ICIS 280-621390/16	50.0	60.241409	50.0	984513.0	1.204828	Y
7	IC 280-621390/15	75.0	90.122129	50.0	966271.0	1.201628	Y
8	IC 280-621390/14	100.0	120.707558	50.0	998476.0	1.207076	Y
9	IC 280-621390/13	200.0	235.900214	50.0	1023473.0	1.179501	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

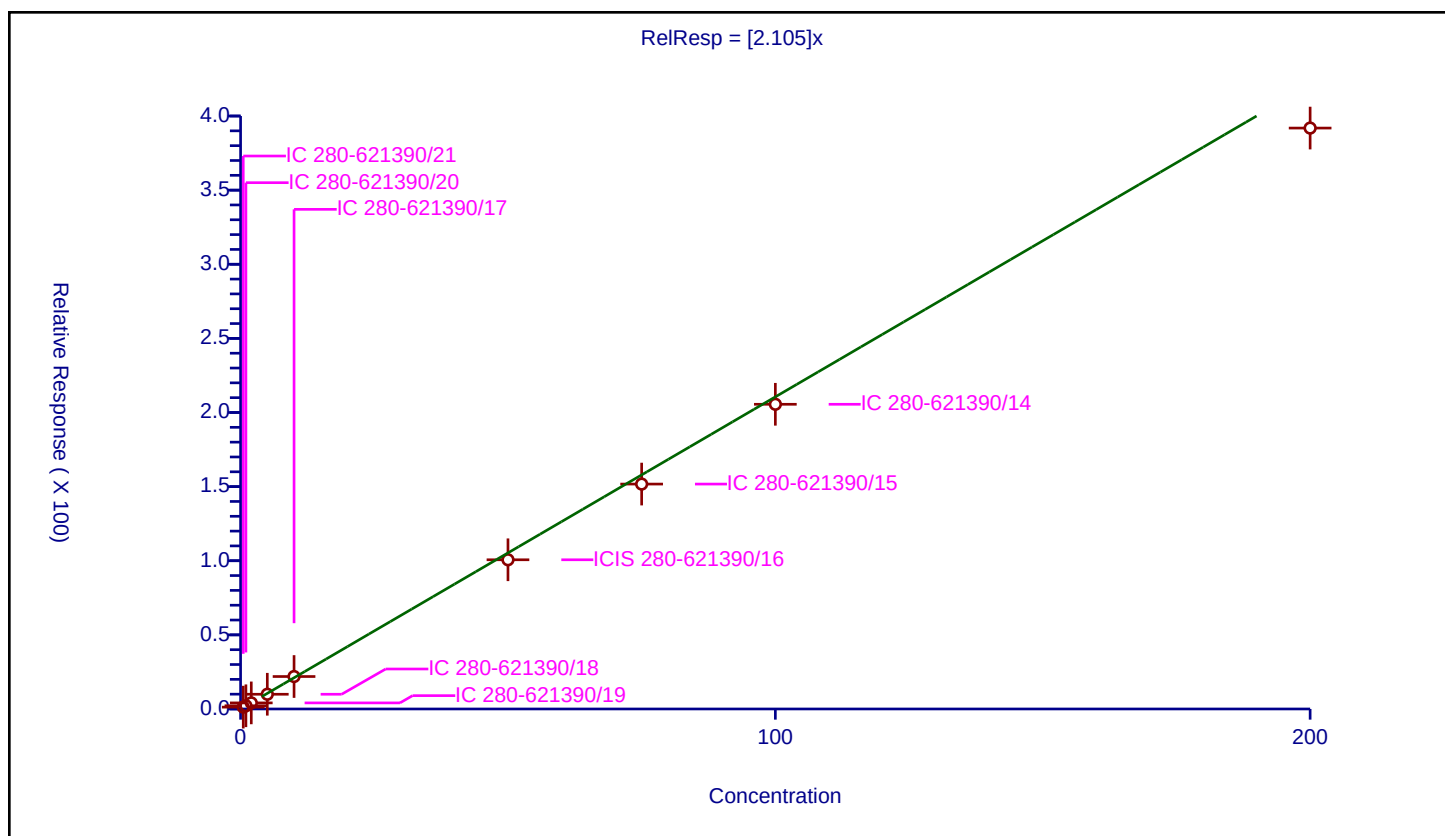
Curve Coefficients

Intercept: 0
 Slope: 2.105

Error Coefficients

Standard Error: 3430000
 Relative Standard Error: 7.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	1.243451	50.0	893883.0	2.486903	Y
2	IC 280-621390/20	1.0	2.171791	50.0	896449.0	2.171791	Y
3	IC 280-621390/19	2.0	4.118984	50.0	938059.0	2.059492	Y
4	IC 280-621390/18	5.0	9.945969	50.0	932981.0	1.989194	Y
5	IC 280-621390/17	10.0	21.906714	50.0	943188.0	2.190671	Y
6	ICIS 280-621390/16	50.0	100.656111	50.0	984513.0	2.013122	Y
7	IC 280-621390/15	75.0	151.719652	50.0	966271.0	2.022929	Y
8	IC 280-621390/14	100.0	205.546803	50.0	998476.0	2.055468	Y
9	IC 280-621390/13	200.0	391.863195	50.0	1023473.0	1.959316	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

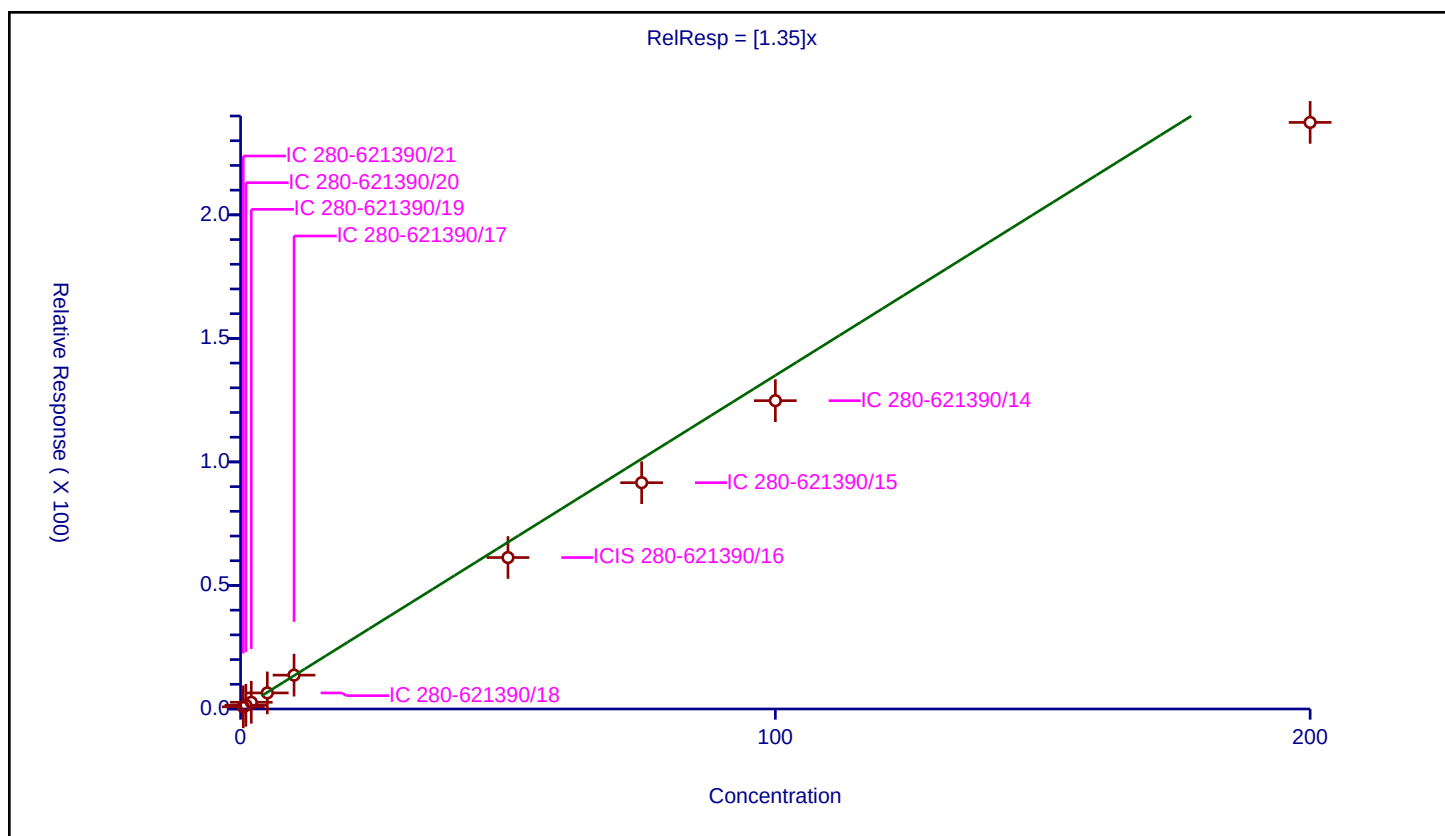
Curve Coefficients

Intercept: 0
Slope: 1.35

Error Coefficients

Standard Error: 2080000
Relative Standard Error: 12.9
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.867899	50.0	893883.0	1.735798	Y
2	IC 280-621390/20	1.0	1.503934	50.0	896449.0	1.503934	Y
3	IC 280-621390/19	2.0	2.714861	50.0	938059.0	1.357431	Y
4	IC 280-621390/18	5.0	6.503026	50.0	932981.0	1.300605	Y
5	IC 280-621390/17	10.0	13.703101	50.0	943188.0	1.37031	Y
6	ICIS 280-621390/16	50.0	61.299292	50.0	984513.0	1.225986	Y
7	IC 280-621390/15	75.0	91.597647	50.0	966271.0	1.221302	Y
8	IC 280-621390/14	100.0	124.782519	50.0	998476.0	1.247825	Y
9	IC 280-621390/13	200.0	237.404651	50.0	1023473.0	1.187023	Y



Calibration

/ n-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

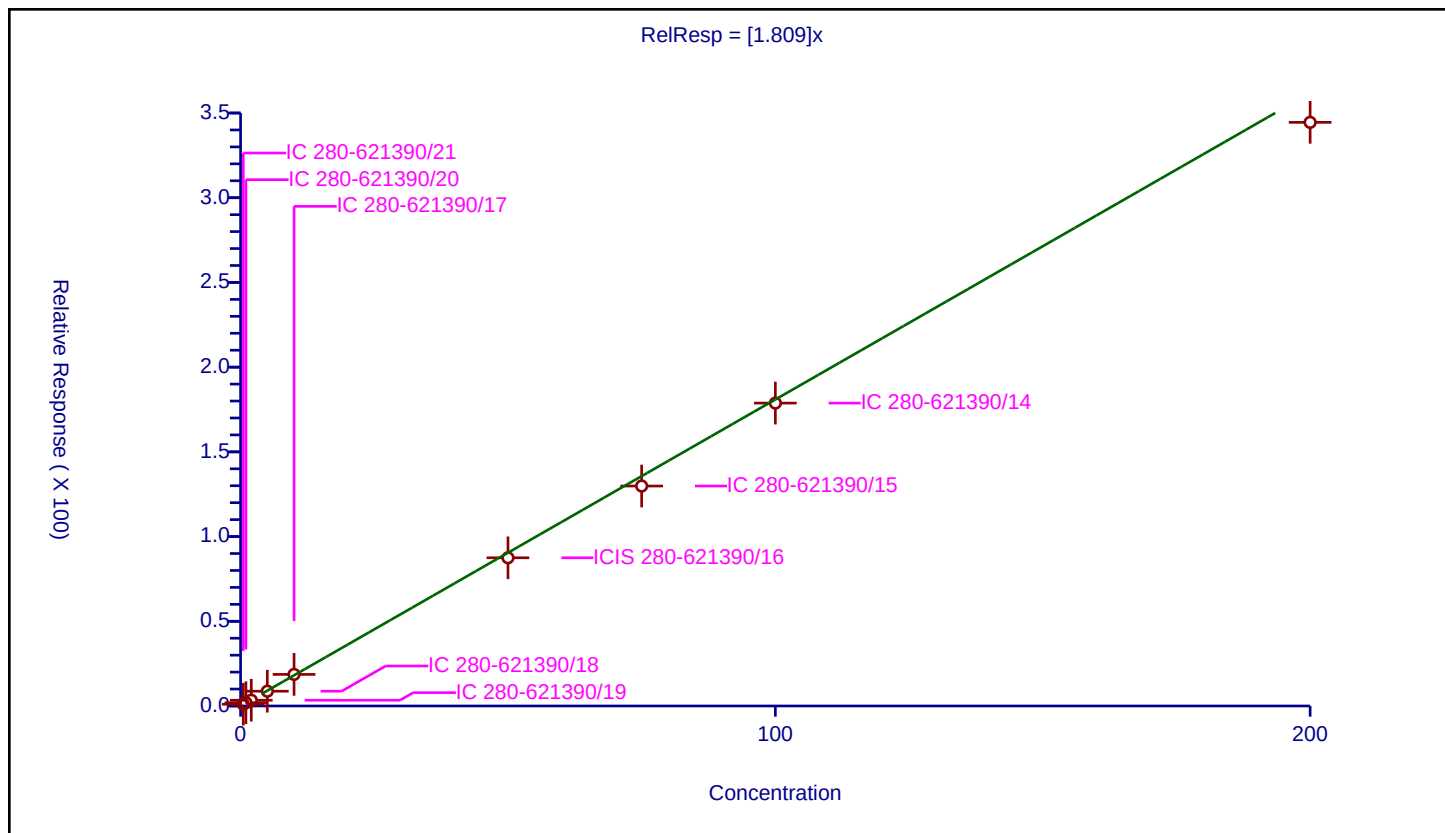
Curve Coefficients

Intercept: 0
 Slope: 1.809

Error Coefficients

Standard Error: 3000000
 Relative Standard Error: 6.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	1.035426	50.0	893883.0	2.070853	Y
2	IC 280-621390/20	1.0	1.911877	50.0	896449.0	1.911877	Y
3	IC 280-621390/19	2.0	3.397281	50.0	938059.0	1.69864	Y
4	IC 280-621390/18	5.0	8.724669	50.0	932981.0	1.744934	Y
5	IC 280-621390/17	10.0	18.639497	50.0	943188.0	1.86395	Y
6	ICIS 280-621390/16	50.0	87.481577	50.0	984513.0	1.749632	Y
7	IC 280-621390/15	75.0	129.835315	50.0	966271.0	1.731138	Y
8	IC 280-621390/14	100.0	178.775304	50.0	998476.0	1.787753	Y
9	IC 280-621390/13	200.0	344.487348	50.0	1023473.0	1.722437	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

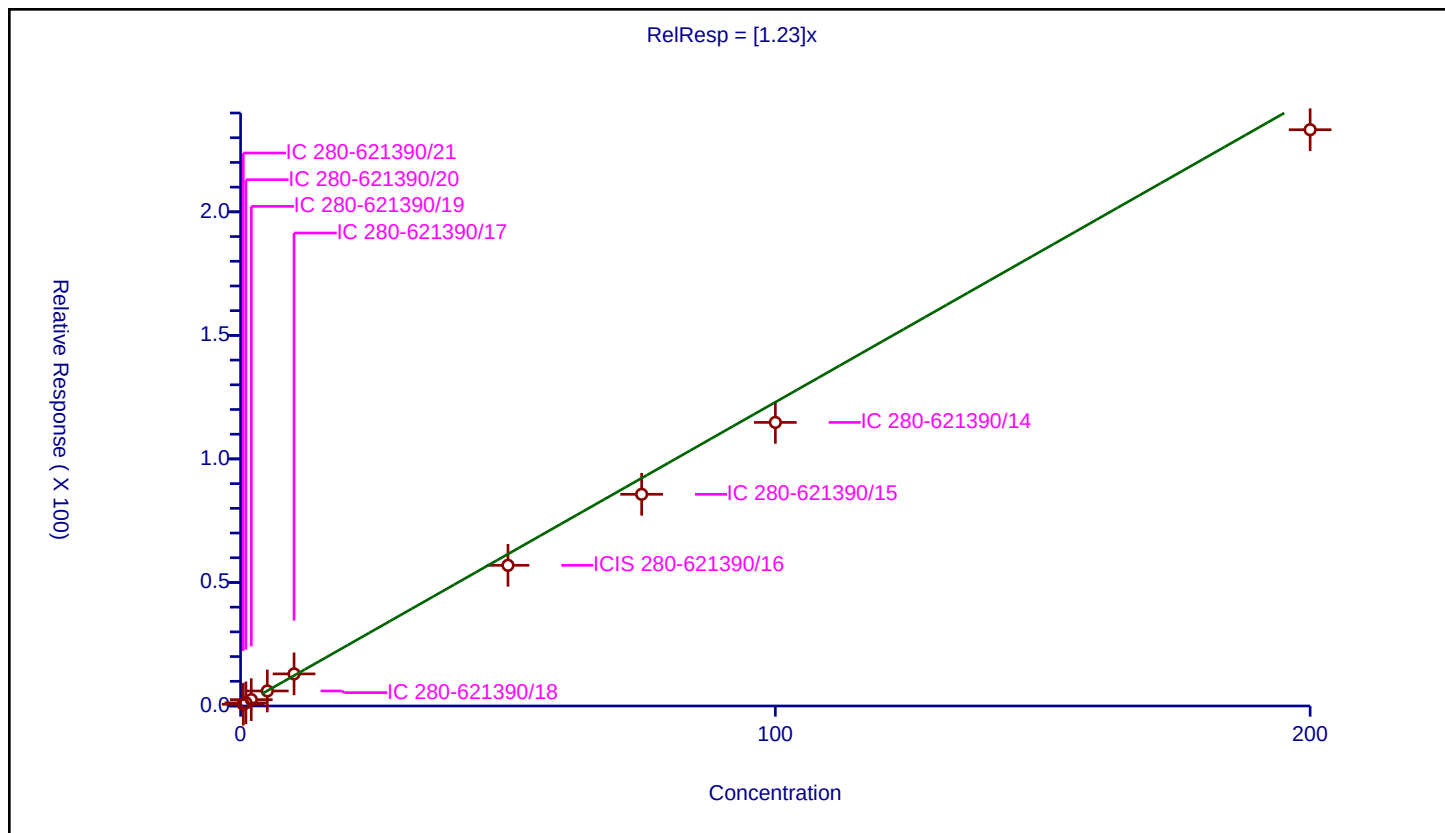
Curve Coefficients

Intercept: 0
Slope: 1.23

Error Coefficients

Standard Error: 2000000
Relative Standard Error: 7.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.699029	50.0	893883.0	1.398058	Y
2	IC 280-621390/20	1.0	1.271238	50.0	896449.0	1.271238	Y
3	IC 280-621390/19	2.0	2.572972	50.0	938059.0	1.286486	Y
4	IC 280-621390/18	5.0	6.083618	50.0	932981.0	1.216724	Y
5	IC 280-621390/17	10.0	12.994599	50.0	943188.0	1.29946	Y
6	ICIS 280-621390/16	50.0	56.944042	50.0	984513.0	1.138881	Y
7	IC 280-621390/15	75.0	85.684037	50.0	966271.0	1.142454	Y
8	IC 280-621390/14	100.0	114.776369	50.0	998476.0	1.147764	Y
9	IC 280-621390/13	200.0	233.243964	50.0	1023473.0	1.16622	Y



Calibration

/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

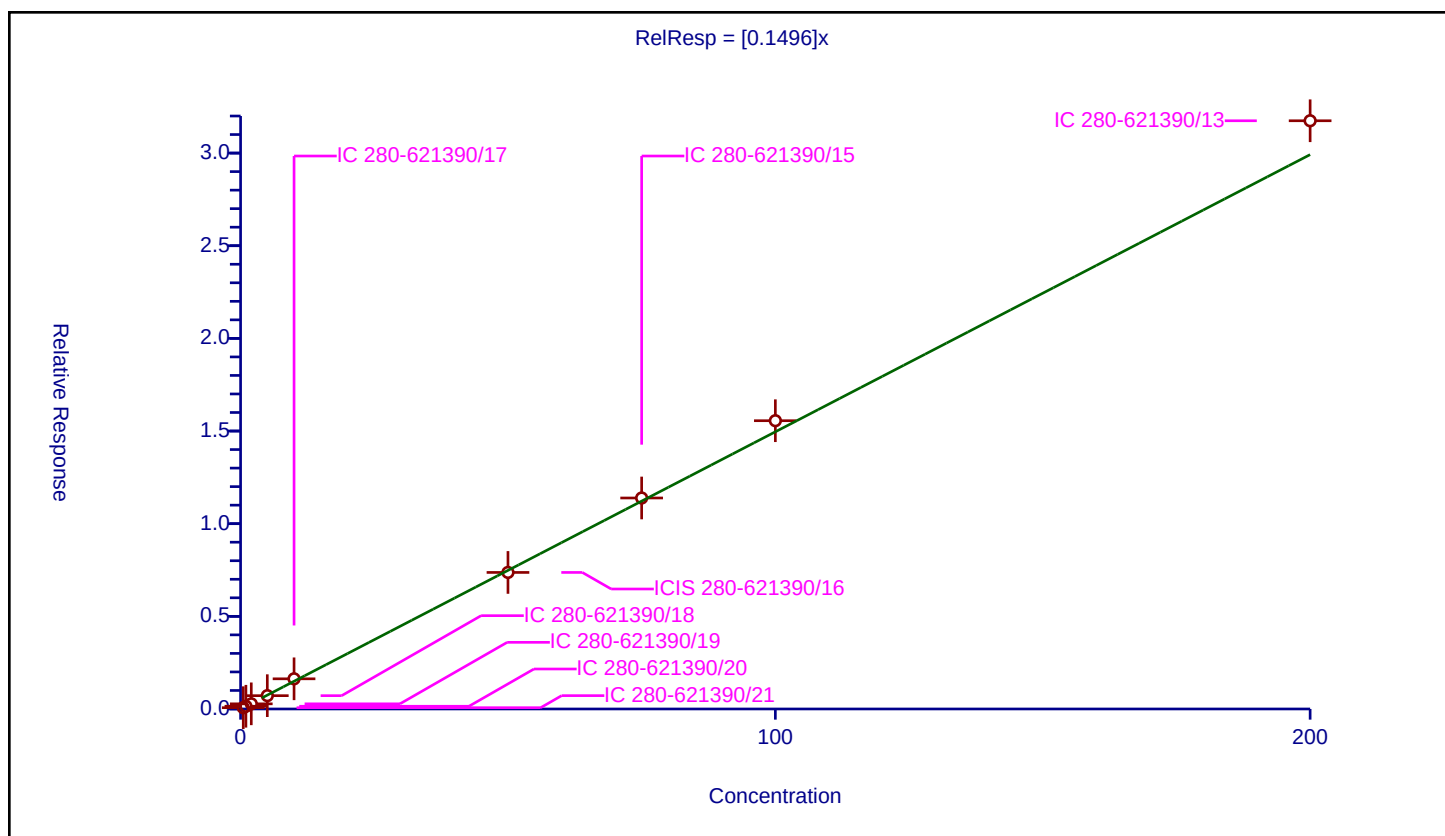
Curve Coefficients

Intercept: 0
Slope: 0.1496

Error Coefficients

Standard Error: 271000
Relative Standard Error: 5.5
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.069976	50.0	893883.0	0.139951	Y
2	IC 280-621390/20	1.0	0.146857	50.0	896449.0	0.146857	Y
3	IC 280-621390/19	2.0	0.278661	50.0	938059.0	0.13933	Y
4	IC 280-621390/18	5.0	0.718718	50.0	932981.0	0.143744	Y
5	IC 280-621390/17	10.0	1.628095	50.0	943188.0	0.16281	Y
6	ICIS 280-621390/16	50.0	7.36938	50.0	984513.0	0.147388	Y
7	IC 280-621390/15	75.0	11.386712	50.0	966271.0	0.151823	Y
8	IC 280-621390/14	100.0	15.55776	50.0	998476.0	0.155578	Y
9	IC 280-621390/13	200.0	31.744071	50.0	1023473.0	0.15872	Y



Calibration

/ 1,2,4-Trichlorobenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

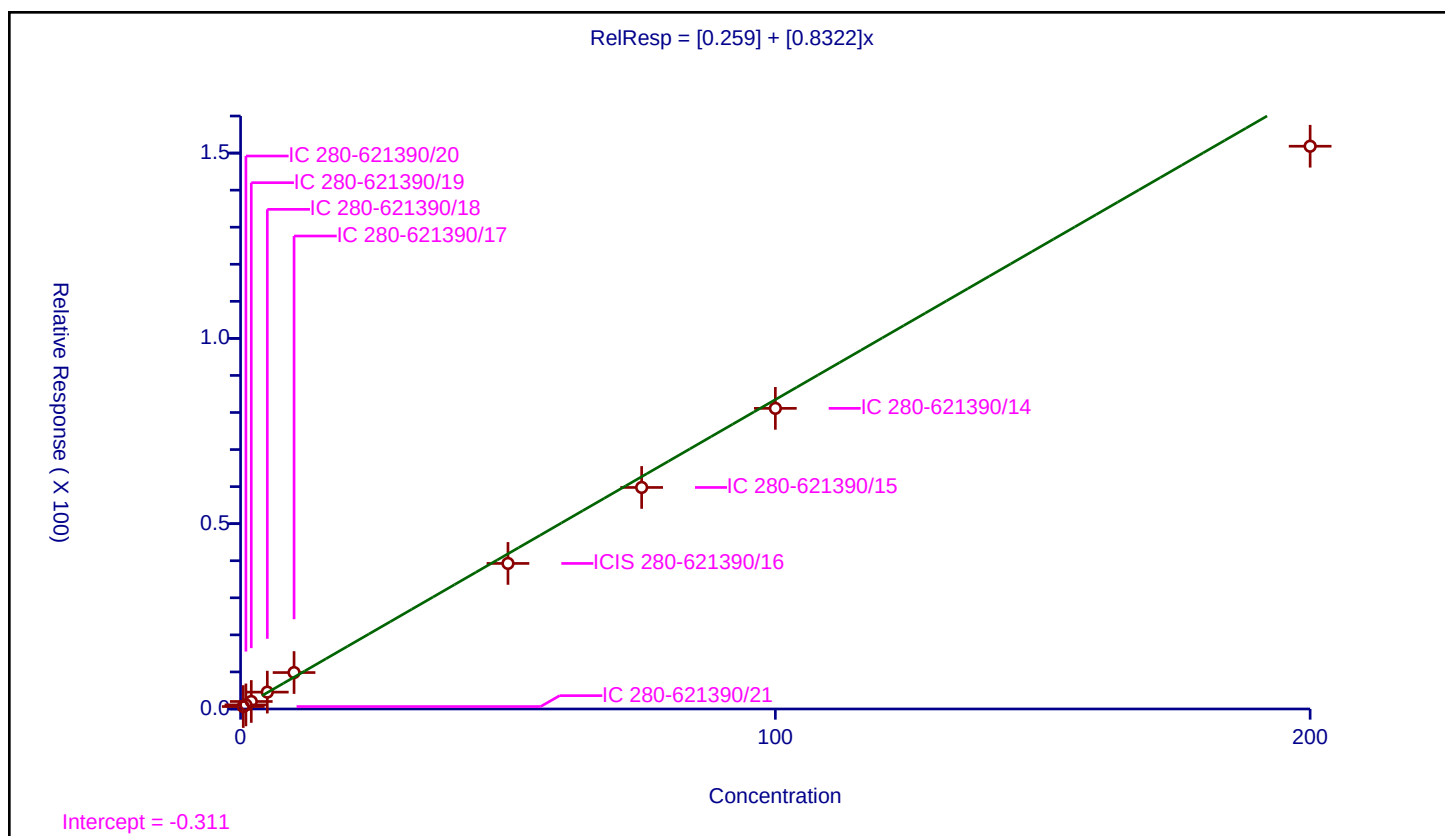
Curve Coefficients

Intercept: 0.259
 Slope: 0.8322

Error Coefficients

Standard Error: 1430000
 Relative Standard Error: 7.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.660993	50.0	893883.0	1.321985	Y
2	IC 280-621390/20	1.0	1.107369	50.0	896449.0	1.107369	Y
3	IC 280-621390/19	2.0	2.021941	50.0	938059.0	1.010971	Y
4	IC 280-621390/18	5.0	4.548378	50.0	932981.0	0.909676	Y
5	IC 280-621390/17	10.0	9.834572	50.0	943188.0	0.983457	Y
6	ICIS 280-621390/16	50.0	39.279116	50.0	984513.0	0.785582	Y
7	IC 280-621390/15	75.0	59.777847	50.0	966271.0	0.797038	Y
8	IC 280-621390/14	100.0	81.118775	50.0	998476.0	0.811188	Y
9	IC 280-621390/13	200.0	151.850269	50.0	1023473.0	0.759251	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

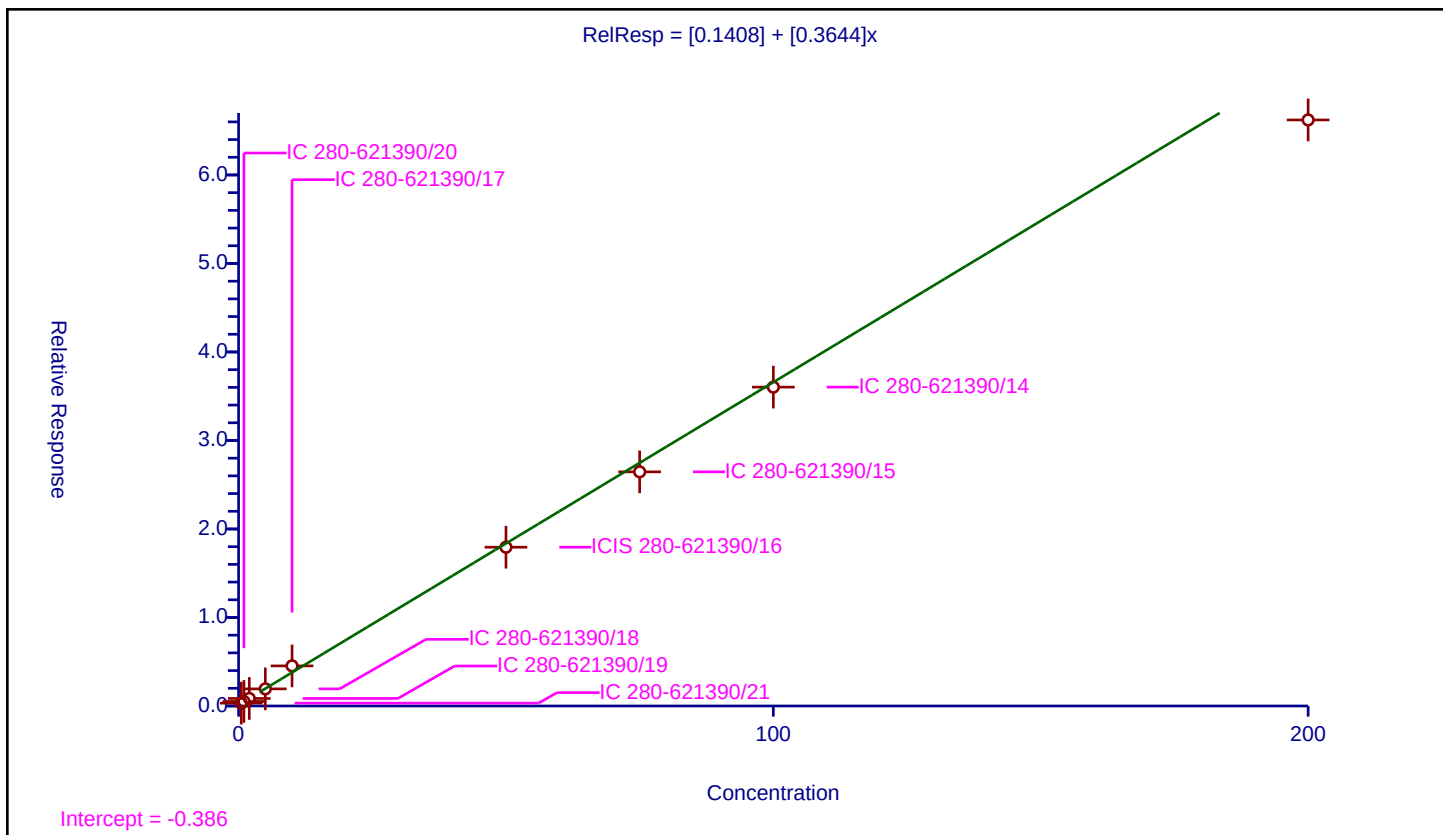
Curve Coefficients

Intercept: 0.1408
 Slope: 0.3644

Error Coefficients

Standard Error: 627000
 Relative Standard Error: 8.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.321463	50.0	893883.0	0.642925	Y
2	IC 280-621390/20	1.0	0.51018	50.0	896449.0	0.51018	Y
3	IC 280-621390/19	2.0	0.851812	50.0	938059.0	0.425906	Y
4	IC 280-621390/18	5.0	1.934177	50.0	932981.0	0.386835	Y
5	IC 280-621390/17	10.0	4.529161	50.0	943188.0	0.452916	Y
6	ICIS 280-621390/16	50.0	17.940748	50.0	984513.0	0.358815	Y
7	IC 280-621390/15	75.0	26.457329	50.0	966271.0	0.352764	Y
8	IC 280-621390/14	100.0	36.029409	50.0	998476.0	0.360294	Y
9	IC 280-621390/13	200.0	66.217086	50.0	1023473.0	0.331085	Y



Calibration

/ Naphthalene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

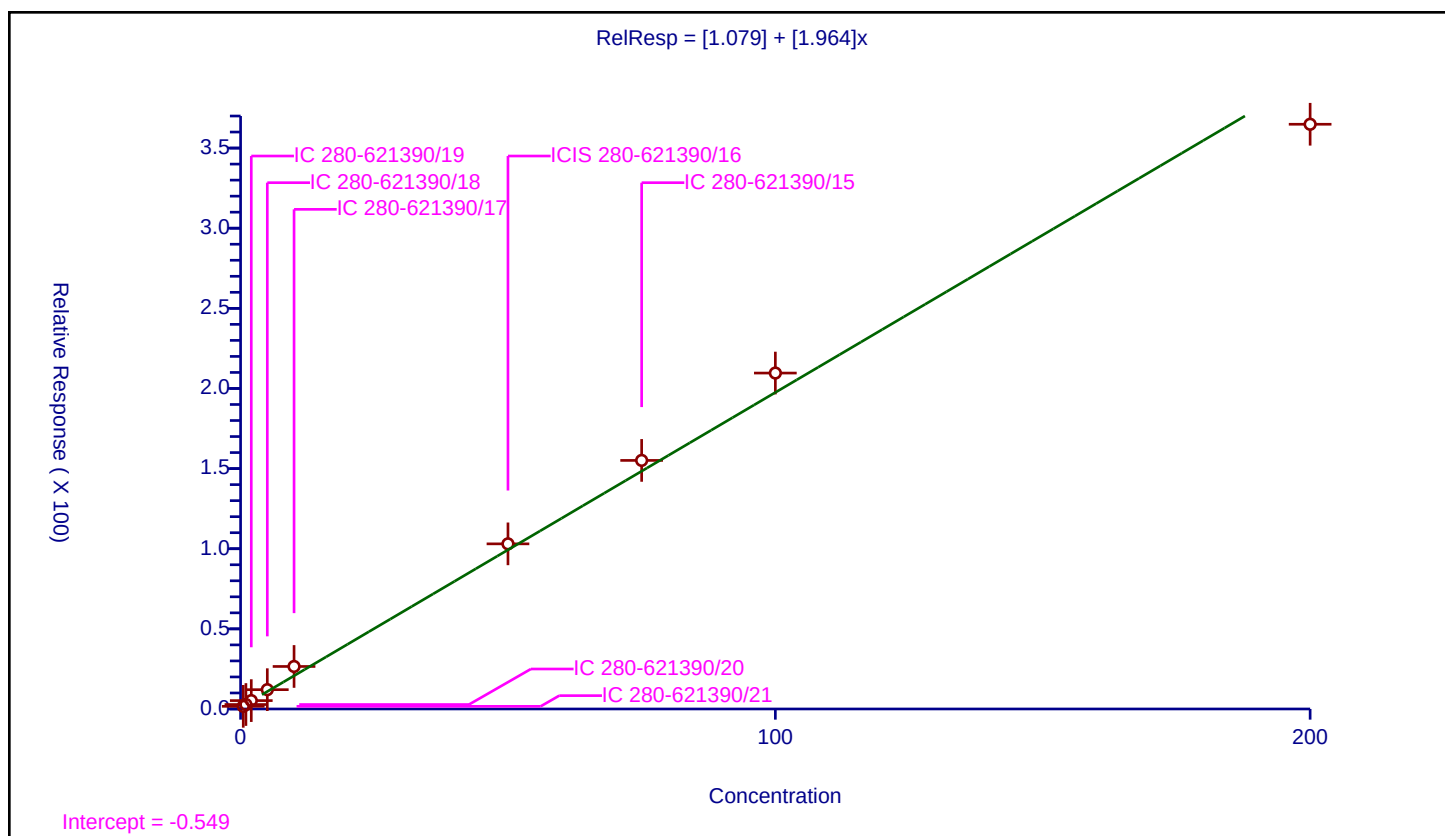
Curve Coefficients

Intercept: 1.079
 Slope: 1.964

Error Coefficients

Standard Error: 3520000
 Relative Standard Error: 20.8
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	1.656705	50.0	893883.0	3.313409	Y
2	IC 280-621390/20	1.0	2.791291	50.0	896449.0	2.791291	Y
3	IC 280-621390/19	2.0	5.225791	50.0	938059.0	2.612895	Y
4	IC 280-621390/18	5.0	12.055926	50.0	932981.0	2.411185	Y
5	IC 280-621390/17	10.0	26.52573	50.0	943188.0	2.652573	Y
6	ICIS 280-621390/16	50.0	103.036577	50.0	984513.0	2.060732	Y
7	IC 280-621390/15	75.0	155.105866	50.0	966271.0	2.068078	Y
8	IC 280-621390/14	100.0	209.615504	50.0	998476.0	2.096155	Y
9	IC 280-621390/13	200.0	364.865903	50.0	1023473.0	1.82433	Y



Calibration

/ 1,2,3-Trichlorobenzene

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

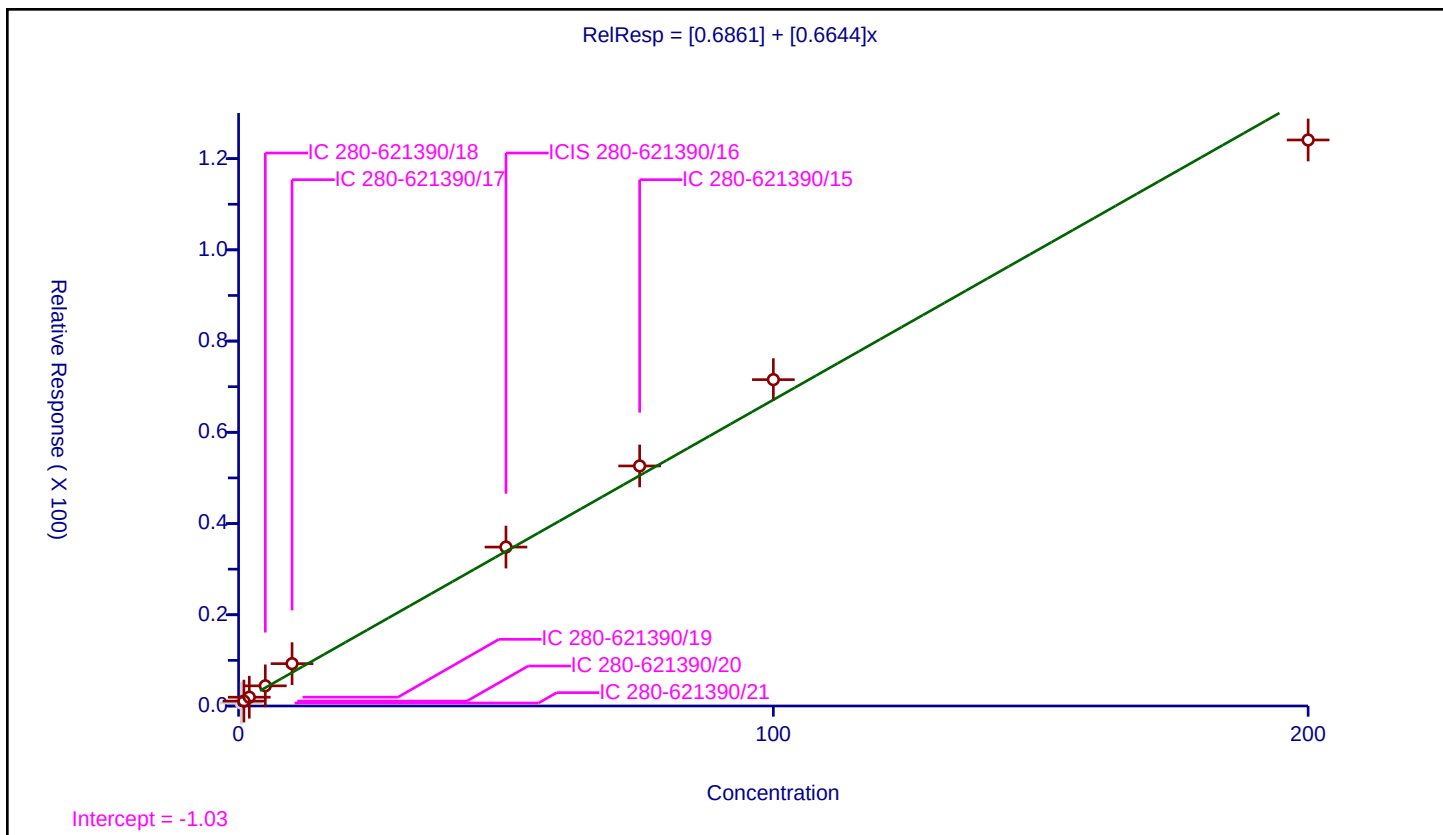
Curve Coefficients

Intercept: 0.6861
 Slope: 0.6644

Error Coefficients

Standard Error: 1290000
 Relative Standard Error: 22.1
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621390/21	0.5	0.656853	50.0	893883.0	1.313707	N
2	IC 280-621390/20	1.0	1.073235	50.0	896449.0	1.073235	Y
3	IC 280-621390/19	2.0	1.927118	50.0	938059.0	0.963559	Y
4	IC 280-621390/18	5.0	4.417721	50.0	932981.0	0.883544	Y
5	IC 280-621390/17	10.0	9.282773	50.0	943188.0	0.928277	Y
6	ICIS 280-621390/16	50.0	34.842201	50.0	984513.0	0.696844	Y
7	IC 280-621390/15	75.0	52.626489	50.0	966271.0	0.701687	Y
8	IC 280-621390/14	100.0	71.546337	50.0	998476.0	0.715463	Y
9	IC 280-621390/13	200.0	124.089888	50.0	1023473.0	0.620449	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 570124
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/29/2022 17:08 Calibration End Date: 03/29/2022 19:40 Calibration ID: 63478

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-570124/14	R3108.D
Level 2	STD2 280-570124/15	R3109.D
Level 3	STD5 280-570124/16	R3110.D
Level 4	STD10 280-570124/17	R3111.D
Level 5	STD50 280-570124/18	R3112.D
Level 6	STD75 280-570124/19	R3113.D
Level 7	STD100 280-570124/20	R3114.D
Level 8	STD200 280-570124/21	R3115.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Ethanol	++++ 0.0025	0.0035 0.0021	0.0027 0.0025	0.0026	0.0023	Lin2	0.131 8	0.002 3							0.9950		0.9900
Isopropyl alcohol	++++ 0.0135	0.0135 0.0123	0.0120 0.0145	0.0121	0.0116	Ave		0.012 8				8.1	15.0				
Acetonitrile	0.0367 0.0303	0.0276 0.0268	0.0282 0.0308	0.0294	0.0285	Ave		0.029 8				10.4	15.0				
Isopropyl ether	0.1618 0.1976	0.1472 0.1806	0.1509 0.2039	0.1663	0.1892	Ave		0.174 7				12.2	15.0				
Chloroprene	0.2876 0.3681	0.2645 0.3326	0.2954 0.3671	0.3398	0.3703	Ave		0.328 2				12.5	15.0				
Tert-butyl ethyl ether	0.5981 0.6679	0.4981 0.6190	0.5392 0.6981	0.5886	0.6402	Ave		0.606 1				10.8	15.0				
Ethyl acetate	0.2029 0.2008	0.1588 0.1913	0.1713 0.2136	0.1834	0.1959	Ave		0.189 7				9.4	15.0				
Propionitrile	0.0449 0.0365	0.0309 0.0337	0.0333 0.0364	0.0346	0.0363	Ave		0.035 8				11.6	15.0				
Methacrylonitrile	0.1654 0.1451	0.1279 0.1325	0.1351 0.1403	0.1412	0.1435	Ave		0.141 4				8.0	15.0				
Tert-amyl methyl ether	0.5523 0.6000	0.4555 0.6085	0.4883 0.6356	0.5139	0.5780	Ave		0.554 0				11.4	15.0				
n-Butanol	0.0016 0.0064	0.0023 0.0068	0.0035 0.0072	0.0043	0.0060	Lin1	-0.22 6	0.006 9							0.9940		0.9900
Methyl methacrylate	0.0567 0.0688	0.0443 0.0679	0.0563 0.0703	0.0576	0.0674	Ave		0.061 2				14.7	15.0				
2-Nitropropane	0.0682 0.0561	0.0464 0.0565	0.0478 0.0600	0.0466	0.0539	Ave		0.054 4				13.9	15.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 570124

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2022 17:08 Calibration End Date: 03/29/2022 19:40 Calibration ID: 63478

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
cis-1,4-Dichloro-2-butene	0.2008 0.2014	0.1335 0.2019	0.1433 0.2118	0.1516	0.1908	Lin1	-0.22 1	0.204 9							0.9970		0.9900
1,2,3-Trimethylbenzene	2.5604 2.4216	1.9025 2.3941	2.0266 2.4257	2.2273	2.4167	Ave		2.296 9				9.9		15.0			
1,3,5-Trichlorobenzene	0.8365 0.8631	0.6837 0.8499	0.7291 0.8815	0.7892	0.8453	Ave		0.809 8				8.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 570124

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2022 17:08 Calibration End Date: 03/29/2022 19:40 Calibration ID: 63478

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-570124/14	R3108.D
Level 2	STD2 280-570124/15	R3109.D
Level 3	STD5 280-570124/16	R3110.D
Level 4	STD10 280-570124/17	R3111.D
Level 5	STD50 280-570124/18	R3112.D
Level 6	STD75 280-570124/19	R3113.D
Level 7	STD100 280-570124/20	R3114.D
Level 8	STD200 280-570124/21	R3115.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethanol	FB	Lin2	+++++ 502943	16601 567998	33189 1368163	66279	295752	+++++ 4500	120 6000	300 12000	600	3000
Isopropyl alcohol	FB	Ave	+++++ 444707	10755 547594	24656 1314495	50624	249555	+++++ 750	20.0 1000	50.0 2000	100	500
Acetonitrile	FB	Ave	15096 998788	21981 1193626	57880 2794599	122451	610630	10.0 750	20.0 1000	50.0 2000	100	500
Isopropyl ether	FB	Ave	6658 651074	11742 803240	30972 1850939	69334	405738	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Chloroprene	FB	Ave	11838 1213255	21097 1479363	60638 3332699	141658	794097	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Tert-butyl ethyl ether	FB	Ave	24617 2201029	39727 2753175	110684 6337238	245364	1372894	1.00 75.0	2.00 100	5.00 200	10.0	50.0
Ethyl acetate	FB	Ave	16701 1323466	25328 1701576	70326 3877499	152893	840000	2.00 150	4.00 200	10.0 400	20.0	100
Propionitrile	FB	Ave	18486 1202046	24631 1499374	68271 3302329	144362	778014	10.0 750	20.0 1000	50.0 2000	100	500
Methacrylonitrile	FB	Ave	68084 4780750	101992 5893781	277327 12734382	588613	3076234	10.0 750	20.0 1000	50.0 2000	100	500
Tert-amyl methyl ether	FB	Ave	22732 1977515	36330 2706747	100231 5769973	214260	1239413	1.00 75.0	2.00 100	5.00 200	10.0	50.0
n-Butanol	FB	Lin1	1665 524904	4551 750978	18163 1636921	45164	321065	25.0 1875	50.0 2500	125 5000	250	1250
Methyl methacrylate	FB	Ave	4670 453327	7068 604327	23129 1275788	48037	288880	2.00 150	4.00 200	10.0 400	20.0	100
2-Nitropropane	FB	Ave	5616 370035	7396 502540	19635 1089095	38816	231231	2.00 150	4.00 200	10.0 400	20.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 570124

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/29/2022 17:08 Calibration End Date: 03/29/2022 19:40 Calibration ID: 63478

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
cis-1,4-Dichloro-2-butene	DCBd 4	Lin1	6804	8755	23745	50149	327239	2.00	4.00	10.0	20.0	100
			531270	725683	1573985			150	200	400		
1,2,3-Trimethylbenzene	DCBd 4	Ave	43390	62399	167949	368310	2072234	1.00	2.00	5.00	10.0	50.0
			3194067	4302417	9012497			75.0	100	200		
1,3,5-Trichlorobenzene	DCBd 4	Ave	14175	22423	60420	130505	724840	1.00	2.00	5.00	10.0	50.0
			1138481	1527308	3275032			75.0	100	200		

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3108.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 29-Mar-2022 17:08:30 ALS Bottle#: 1 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD1
 Misc. Info.: 280-0109642-014
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:36 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 18:30:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2057822	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	504659	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	847314	50.0	50.0	
13 Ethylene oxide	43	2.101	2.097	0.004	99	44741	100.0	105.9	
18 Ethanol	45	2.525	2.525	0.000	95	8790	60.0	34.8	
20 Propene oxide	58	2.660	2.656	0.004	96	149328	100.0	95.5	
25 Isopropyl alcohol	45	2.903	2.903	0.000	59	8313	10.0	15.8	
28 Acetonitrile	41	3.020	3.016	0.004	97	15096	10.0	12.3	
41 Isopropyl ether	87	3.657	3.657	0.000	92	6658	1.00	0.9261	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	91	11838	1.00	0.8764	
44 Tert-butyl ethyl ether	59	3.908	3.912	-0.004	95	24617	1.00	0.9868	M
46 Ethyl acetate	43	4.047	4.050	-0.003	97	16701	2.00	2.14	
49 Propionitrile	54	4.080	4.080	0.000	97	18486	10.0	12.5	
51 Methacrylonitrile	41	4.189	4.189	0.000	93	68084	10.0	11.7	
64 Tert-amyl methyl ether	73	4.752	4.759	-0.007	84	22732	1.00	1.00	M
66 n-Butanol	56	5.051	5.048	0.003	44	1665	25.0	38.9	
71 Methyl methacrylate	100	5.385	5.381	0.004	93	4670	2.00	1.86	
75 2-Nitropropane	41	5.730	5.734	-0.004	97	5616	2.00	2.51	
86 Tetrahydrothiophene	60	6.877	6.884	-0.007	7	2978	2.00	2.90	
98 cis-1,4-Dichloro-2-butene	53	8.384	8.380	0.004	0	6804	2.00	3.04	
115 1,2,3-Trimethylbenzene	105	9.673	9.670	0.003	98	43390	1.00	1.11	
119 1,3,5-Trichlorobenzene	180	10.970	10.970	0.000	95	14175	1.00	1.03	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MV-Supp A_00064

Amount Added: 1.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:36

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3108.D

Injection Date: 29-Mar-2022 17:08:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD1

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

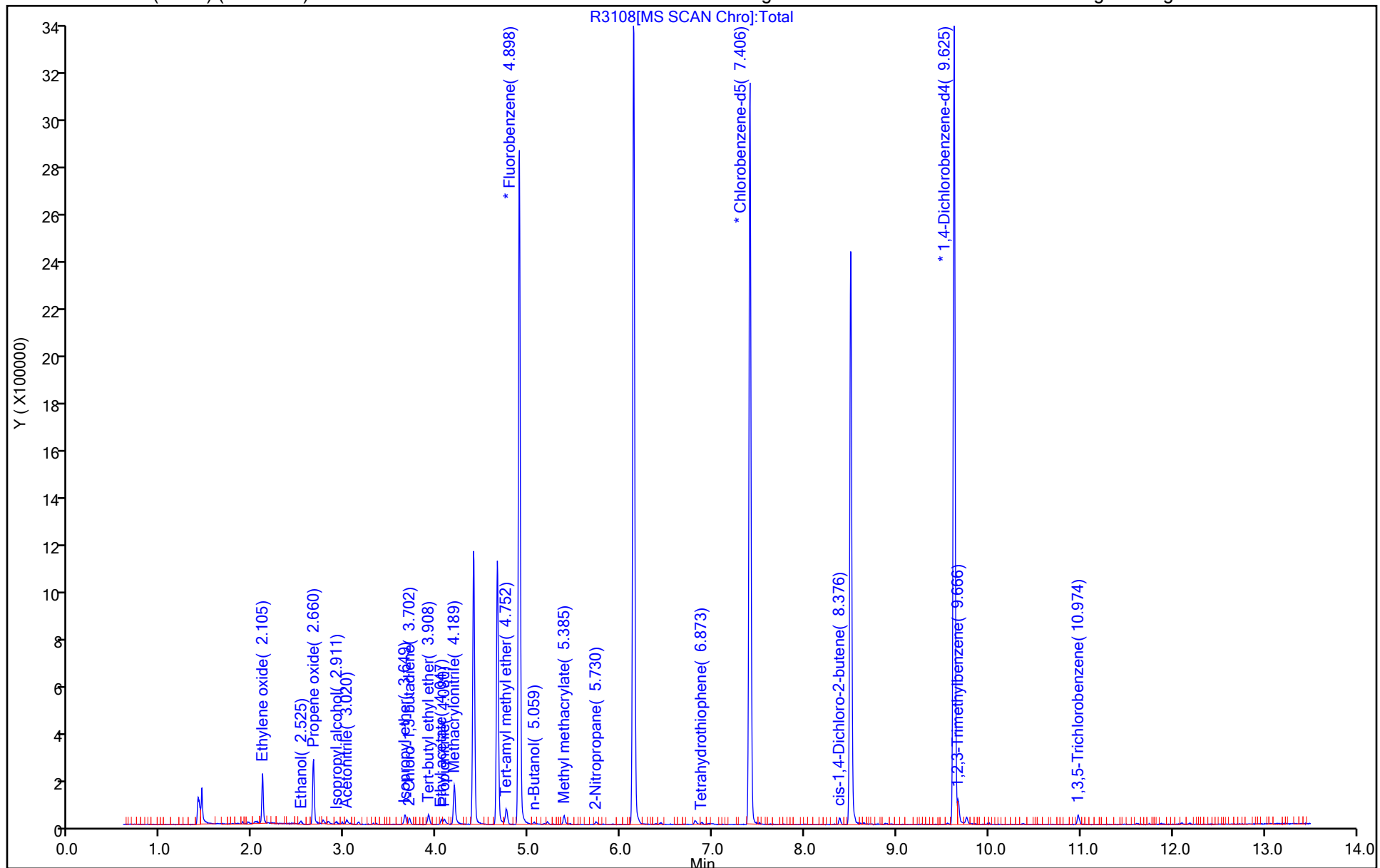
ALS Bottle#: 1

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3108.D

Injection Date: 29-Mar-2022 17:08:30

Instrument ID: VMS_R1

Lims ID: STD1

Client ID:

Operator ID: peppinga

ALS Bottle#:

1

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

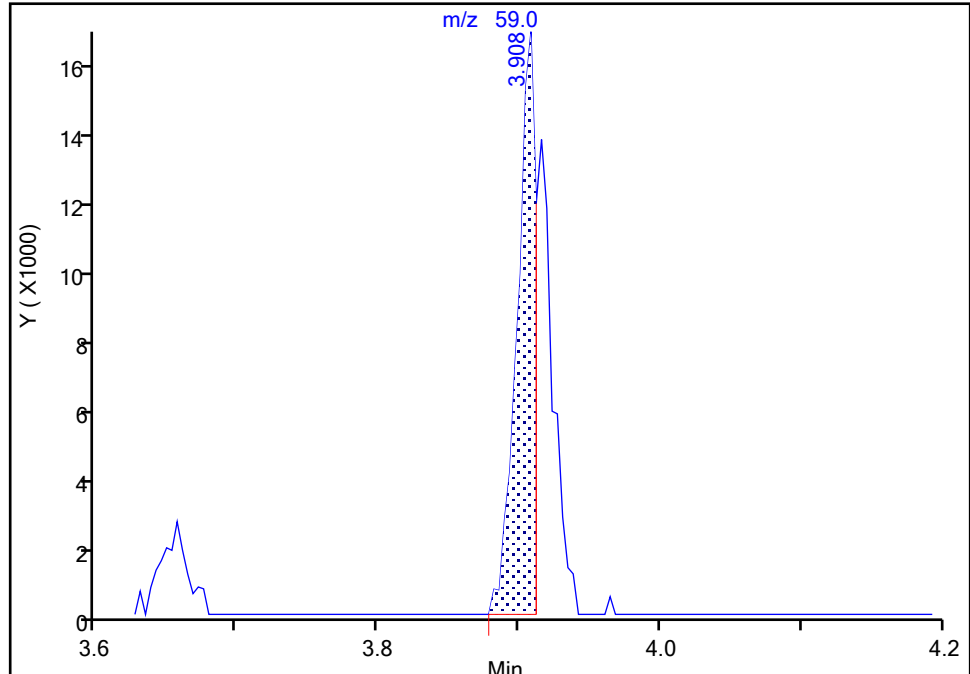
MS SCAN

44 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

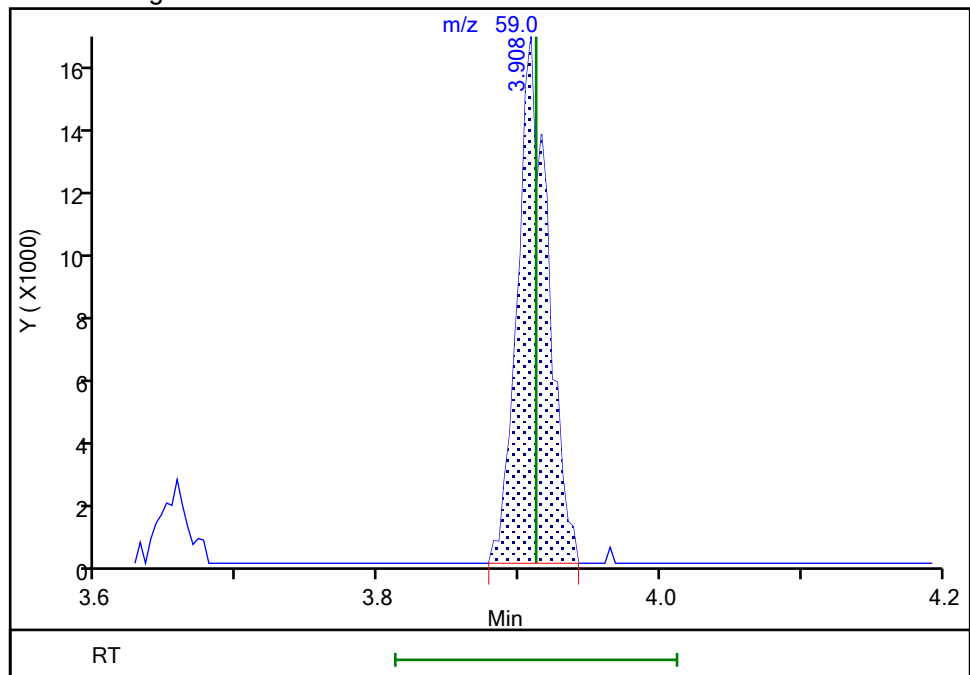
RT: 3.91
Area: 15268
Amount: 0.995549
Amount Units: ug/l

Processing Integration Results



RT: 3.91
Area: 24617
Amount: 0.986790
Amount Units: ug/l

Manual Integration Results



Reviewer: peppinga, 29-Mar-2022 18:29:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3108.D

Injection Date: 29-Mar-2022 17:08:30

Instrument ID: VMS_R1

Lims ID: STD1

Client ID:

Operator ID: peppinga

ALS Bottle#:

1

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

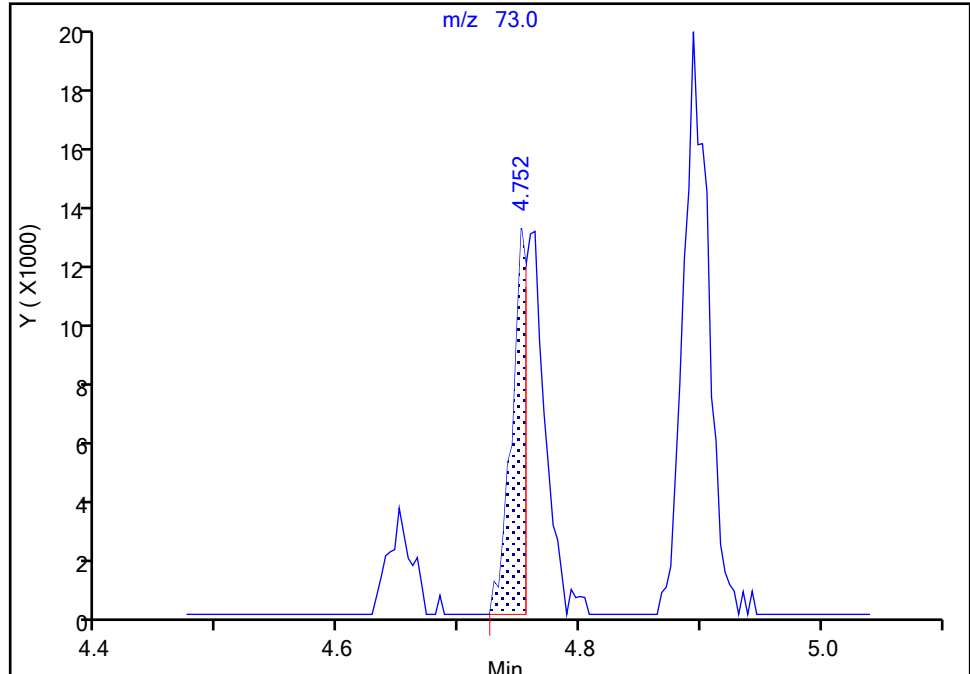
MS SCAN

64 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

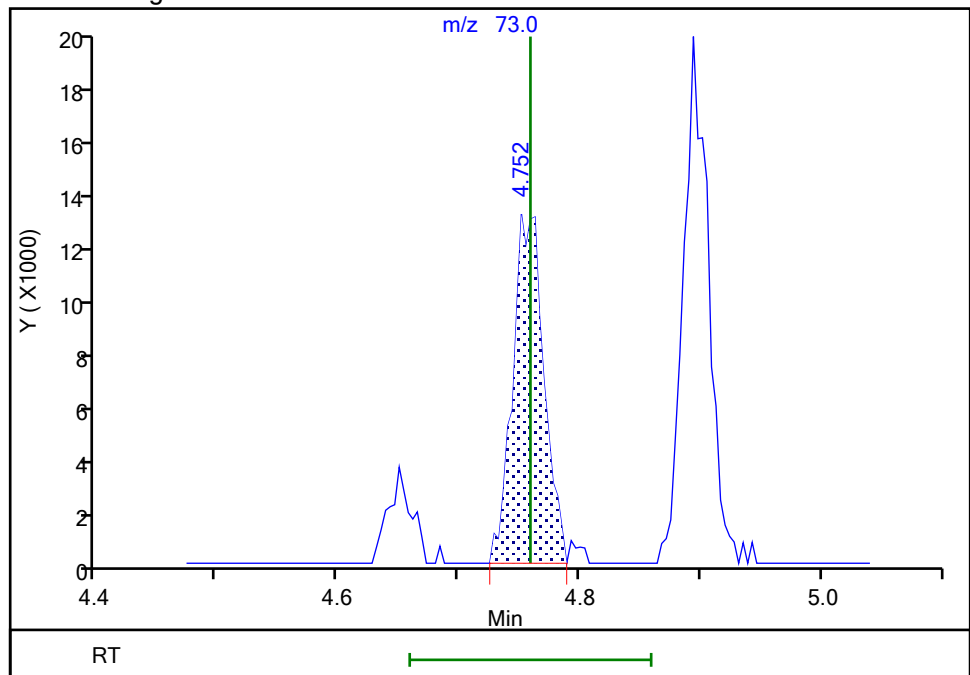
RT: 4.75
Area: 10970
Amount: 0.971578
Amount Units: ug/l

Processing Integration Results



RT: 4.75
Area: 22732
Amount: 0.996943
Amount Units: ug/l

Manual Integration Results



Reviewer: peppinga, 29-Mar-2022 18:30:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3109.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 29-Mar-2022 17:29:30 ALS Bottle#: 2 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD2
 Misc. Info.: 280-0109642-015
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:36 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 18:30:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	1993988	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	485302	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	819971	50.0	50.0	
13 Ethylene oxide	43	2.101	2.097	0.004	99	75829	200.0	185.2	
18 Ethanol	45	2.518	2.525	-0.007	96	16601	120.0	121.2	
20 Propene oxide	58	2.656	2.656	0.000	96	258477	200.0	170.7	
25 Isopropyl alcohol	45	2.907	2.903	0.004	96	10755	20.0	21.1	
28 Acetonitrile	41	3.016	3.016	0.000	99	21981	20.0	18.5	
41 Isopropyl ether	87	3.653	3.657	-0.004	91	11742	2.00	1.69	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	89	21097	2.00	1.61	
44 Tert-butyl ethyl ether	59	3.908	3.912	-0.004	94	39727	2.00	1.64	
46 Ethyl acetate	43	4.047	4.050	-0.003	98	25328	4.00	3.35	
49 Propionitrile	54	4.084	4.080	0.004	98	24631	20.0	17.2	
51 Methacrylonitrile	41	4.189	4.189	0.000	93	101992	20.0	18.1	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	84	36330	2.00	1.64	
66 n-Butanol	56	5.055	5.048	0.007	88	4551	50.0	49.6	
71 Methyl methacrylate	100	5.389	5.381	0.008	89	7068	4.00	2.90	
75 2-Nitropropane	41	5.730	5.734	-0.004	96	7396	4.00	3.41	
86 Tetrahydrothiophene	60	6.877	6.884	-0.007	85	4299	4.00	3.80	
98 cis-1,4-Dichloro-2-butene	53	8.377	8.380	-0.003	0	8755	4.00	3.68	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	98	62399	2.00	1.66	
119 1,3,5-Trichlorobenzene	180	10.974	10.970	0.004	94	22423	2.00	1.69	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00064

Amount Added: 2.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:37

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3109.D

Injection Date: 29-Mar-2022 17:29:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD2

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

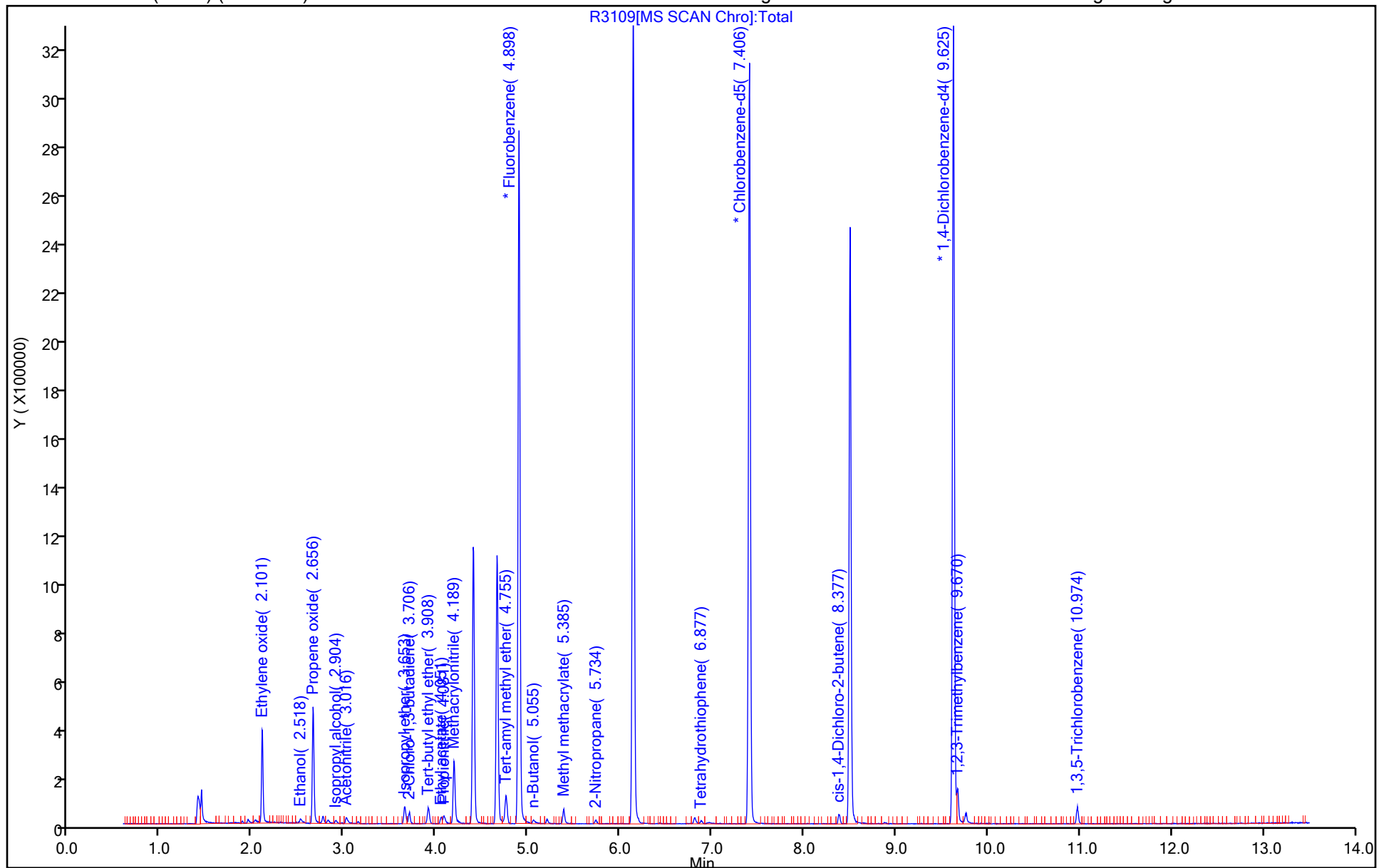
ALS Bottle#: 2

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3110.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Mar-2022 17:51:30 ALS Bottle#: 3 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5
 Misc. Info.: 280-0109642-016
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:37 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 18:31:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2052802	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	496187	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	828738	50.0	50.0	
13 Ethylene oxide	43	2.105	2.097	0.008	99	210677	500.0	499.9	
18 Ethanol	45	2.525	2.525	0.000	98	33189	300.0	288.2	
20 Propene oxide	58	2.656	2.656	0.000	96	778289	500.0	499.2	
25 Isopropyl alcohol	45	2.907	2.903	0.004	98	24656	50.0	46.9	
28 Acetonitrile	41	3.020	3.016	0.004	100	57880	50.0	47.3	
41 Isopropyl ether	87	3.661	3.657	0.004	92	30972	5.00	4.32	M
42 2-Chloro-1,3-butadiene	53	3.706	3.706	0.000	92	60638	5.00	4.50	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	96	110684	5.00	4.45	
46 Ethyl acetate	43	4.051	4.050	0.001	99	70326	10.0	9.03	
49 Propionitrile	54	4.081	4.080	0.000	99	68271	50.0	46.4	
51 Methacrylonitrile	41	4.193	4.189	0.004	91	277327	50.0	47.8	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	96	100231	5.00	4.41	
66 n-Butanol	56	5.055	5.048	0.007	90	18163	125.0	97.6	
71 Methyl methacrylate	100	5.385	5.381	0.004	92	23129	10.0	9.21	
75 2-Nitropropane	41	5.734	5.734	0.000	95	19635	10.0	8.79	
86 Tetrahydrothiophene	60	6.884	6.884	0.000	92	11661	10.0	8.25	
98 cis-1,4-Dichloro-2-butene	53	8.384	8.380	0.004	0	23745	10.0	8.07	
115 1,2,3-Trimethylbenzene	105	9.673	9.670	0.003	97	167949	5.00	4.41	
119 1,3,5-Trichlorobenzene	180	10.974	10.970	0.004	96	60420	5.00	4.50	
165 t-Amyl alcohol	1		0.000				ND	ND	
166 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

MV-Supp A_00064

Amount Added: 5.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:38

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3110.D

Injection Date: 29-Mar-2022 17:51:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD5

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

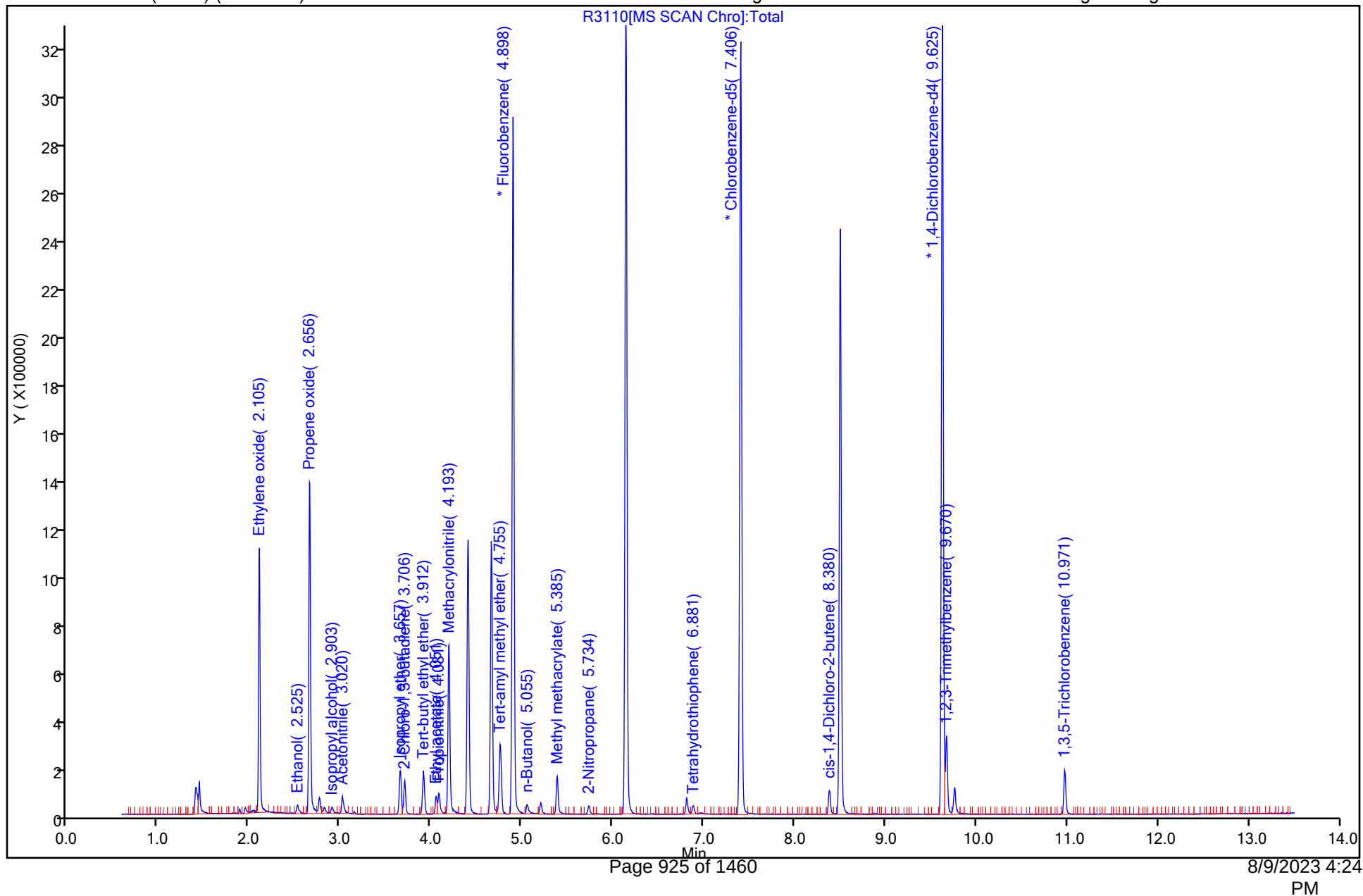
ALS Bottle#: 3

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3110.D

Injection Date: 29-Mar-2022 17:51:30

Instrument ID: VMS_R1

Lims ID: STD5

Client ID:

Operator ID: peppinga

ALS Bottle#:

3

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

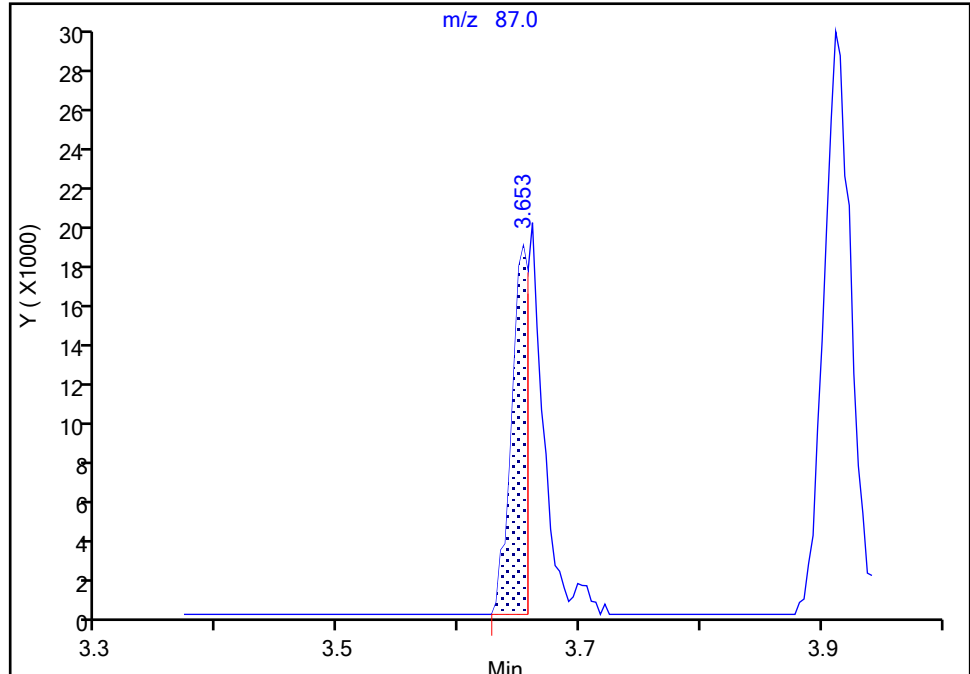
MS SCAN

41 Isopropyl ether, CAS: 108-20-3

Signal: 1

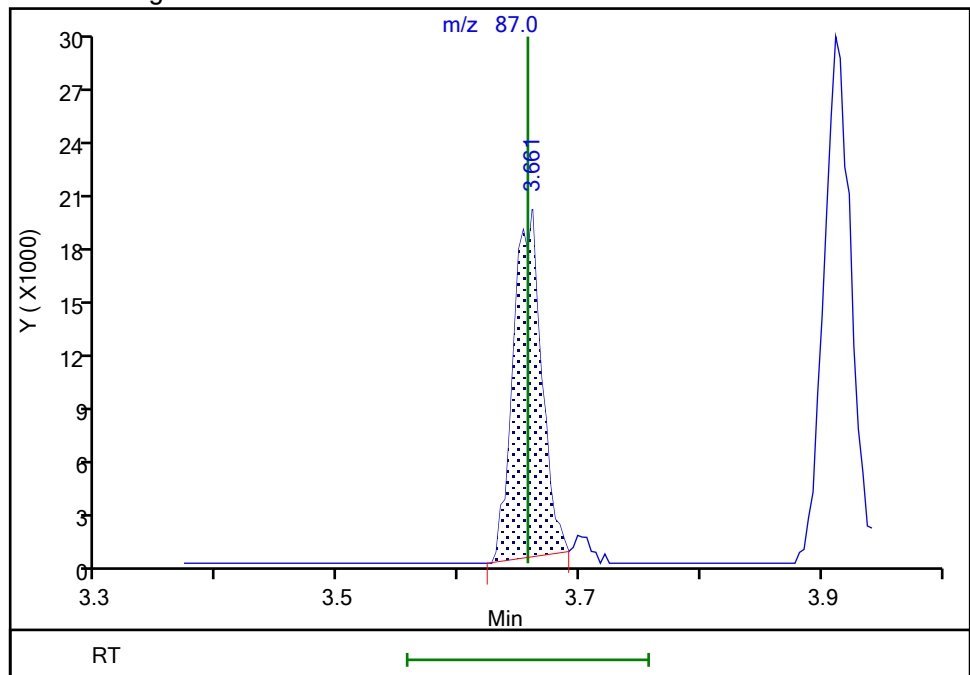
RT: 3.65
Area: 18140
Amount: 4.781523
Amount Units: ug/l

Processing Integration Results



RT: 3.66
Area: 30972
Amount: 4.318702
Amount Units: ug/l

Manual Integration Results



Reviewer: peppinga, 29-Mar-2022 18:31:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3111.D
 Lims ID: STD10
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 29-Mar-2022 18:13:30 ALS Bottle#: 4 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD10
 Misc. Info.: 280-0109642-017
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:38 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 18:31:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2084470	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	502803	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	826804	50.0	50.0	
13 Ethylene oxide	43	2.105	2.097	0.008	99	459766	1000.0	1074.4	
18 Ethanol	45	2.521	2.525	-0.004	99	66279	600.0	621.1	
20 Propene oxide	58	2.660	2.656	0.004	96	1716502	1000.0	1084.2	
25 Isopropyl alcohol	45	2.907	2.903	0.004	97	50624	100.0	94.9	
28 Acetonitrile	41	3.020	3.016	0.004	99	122451	100.0	98.6	
41 Isopropyl ether	87	3.653	3.657	-0.004	92	69334	10.0	9.52	
42 2-Chloro-1,3-butadiene	53	3.706	3.706	0.000	92	141658	10.0	10.4	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	245364	10.0	9.71	
46 Ethyl acetate	43	4.051	4.050	0.001	99	152893	20.0	19.3	
49 Propionitrile	54	4.081	4.080	0.001	99	144362	100.0	96.7	
51 Methacrylonitrile	41	4.193	4.189	0.004	92	588613	100.0	99.9	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	96	214260	10.0	9.28	
66 n-Butanol	56	5.051	5.048	0.003	89	45164	250.0	191.1	
71 Methyl methacrylate	100	5.389	5.381	0.008	91	48037	20.0	18.8	
75 2-Nitropropane	41	5.734	5.734	0.000	99	38816	20.0	17.1	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	91	25392	20.0	16.5	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	50149	20.0	15.9	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	368310	10.0	9.70	
119 1,3,5-Trichlorobenzene	180	10.974	10.970	0.004	97	130505	10.0	9.75	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00064

Amount Added: 10.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:38

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3111.D

Injection Date: 29-Mar-2022 18:13:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD10

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

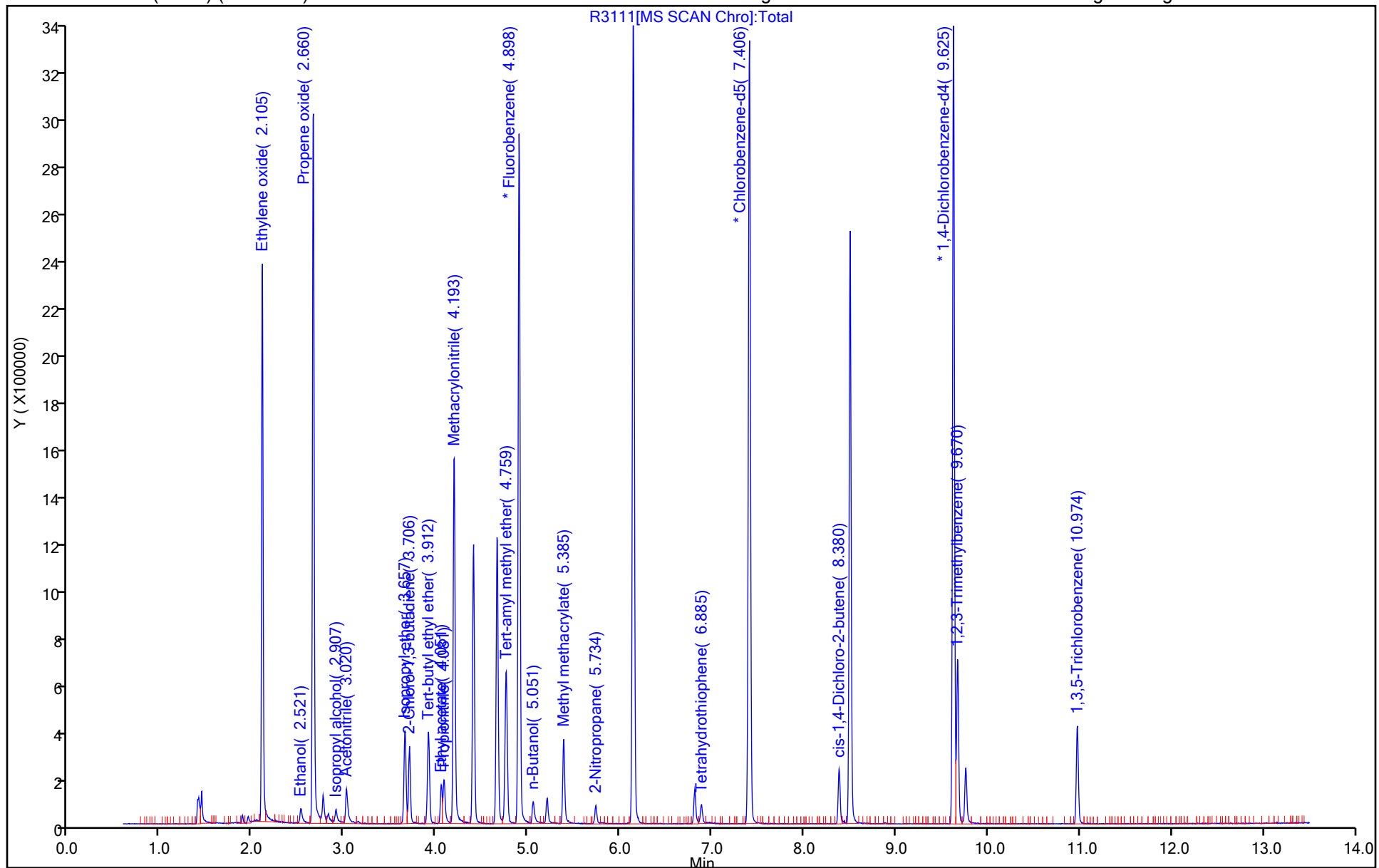
ALS Bottle#: 4

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3112.D
 Lims ID: STD50
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 29-Mar-2022 18:35:30 ALS Bottle#: 5 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD50
 Misc. Info.: 280-0109642-018
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:39 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 20:03:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2144375	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.405	7.405	0.000	87	531556	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	857454	50.0	50.0	
13 Ethylene oxide	43	2.097	2.097	0.000	99	2297197	5000.0	5218.3	
18 Ethanol	45	2.525	2.525	0.000	99	295752	3000.0	2881.6	
20 Propene oxide	58	2.656	2.656	0.000	96	8590951	5000.0	5274.6	
25 Isopropyl alcohol	45	2.903	2.903	0.000	97	249555	500.0	454.8	
28 Acetonitrile	41	3.016	3.016	0.000	99	610630	500.0	478.2	
41 Isopropyl ether	87	3.657	3.657	0.000	93	405738	50.0	54.2	
42 2-Chloro-1,3-butadiene	53	3.706	3.706	0.000	92	794097	50.0	56.4	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	1372894	50.0	52.8	
46 Ethyl acetate	43	4.050	4.050	0.000	99	840000	100.0	103.2	
49 Propionitrile	54	4.080	4.080	0.000	99	778014	500.0	506.5	
51 Methacrylonitrile	41	4.189	4.189	0.000	92	3076234	500.0	507.4	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	98	1239413	50.0	52.2	
66 n-Butanol	56	5.048	5.048	0.000	89	321065	1250.0	1125.8	
71 Methyl methacrylate	100	5.381	5.381	0.000	91	288880	100.0	110.1	
75 2-Nitropropane	41	5.734	5.734	0.000	98	231231	100.0	99.0	
86 Tetrahydrothiophene	60	6.884	6.884	0.000	92	163018	100.0	94.4	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	327239	100.0	94.2	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	98	2072234	50.0	52.6	
119 1,3,5-Trichlorobenzene	180	10.970	10.970	0.000	97	724840	50.0	52.2	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00064

Amount Added: 50.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:39

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3112.D

Injection Date: 29-Mar-2022 18:35:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD50

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3113.D
 Lims ID: STD75
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 29-Mar-2022 18:57:30 ALS Bottle#: 6 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD75
 Misc. Info.: 280-0109642-019
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:40 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 19:34:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2197061	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	535353	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	879338	50.0	50.0	
13 Ethylene oxide	43	2.094	2.097	-0.003	100	3033486	7500.0	6725.6	e
18 Ethanol	45	2.529	2.525	0.004	100	502943	4500.0	4819.9	
20 Propene oxide	58	2.652	2.656	-0.004	96	13190316	7500.0	7904.2	e
25 Isopropyl alcohol	45	2.907	2.903	0.004	98	444707	750.0	791.0	
28 Acetonitrile	41	3.016	3.016	0.000	99	998788	750.0	763.4	
41 Isopropyl ether	87	3.657	3.657	0.000	93	651074	75.0	84.8	
42 2-Chloro-1,3-butadiene	53	3.706	3.706	0.000	92	1213255	75.0	84.1	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	2201029	75.0	82.6	
46 Ethyl acetate	43	4.051	4.050	0.001	99	1323466	150.0	158.7	
49 Propionitrile	54	4.080	4.080	0.000	99	1202046	750.0	763.8	
51 Methacrylonitrile	41	4.189	4.189	0.000	92	4780750	750.0	769.6	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	97	1977515	75.0	81.2	
66 n-Butanol	56	5.048	5.048	0.000	88	524904	1875.0	1776.8	
71 Methyl methacrylate	100	5.381	5.381	0.000	92	453327	150.0	168.7	
75 2-Nitropropane	41	5.730	5.734	-0.004	99	370035	150.0	154.7	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	92	262558	150.0	150.2	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	531270	150.0	148.5	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	3194067	75.0	79.1	
119 1,3,5-Trichlorobenzene	180	10.974	10.970	0.004	97	1138481	75.0	79.9	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

e - Potential Peak Saturated

Reagents:

MV-Supp A_00064

Amount Added: 75.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:40

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3113.D

Injection Date: 29-Mar-2022 18:57:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD75

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3114.D
 Lims ID: STD100
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 29-Mar-2022 19:18:30 ALS Bottle#: 7 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD100
 Misc. Info.: 280-0109642-020
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:41 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 19:33:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2223974	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	550622	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	898554	50.0	50.0	
13 Ethylene oxide	43	2.086	2.097	-0.011	100	2884877	10000	6318.8	
18 Ethanol	45	2.532	2.525	0.007	100	567998	6000.0	5383.9	
20 Propene oxide	58		2.656				ND	ND	U
25 Isopropyl alcohol	45	2.907	2.903	0.004	98	547594	1000.0	962.2	
28 Acetonitrile	41	3.020	3.016	0.004	99	1193626	1000.0	901.2	
41 Isopropyl ether	87	3.653	3.657	-0.004	93	803240	100.0	103.4	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	92	1479363	100.0	101.3	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	2753175	100.0	102.1	
46 Ethyl acetate	43	4.050	4.050	0.000	99	1701576	200.0	201.6	
49 Propionitrile	54	4.080	4.080	0.000	99	1499374	1000.0	941.2	
51 Methacrylonitrile	41	4.189	4.189	0.000	92	5893781	1000.0	937.4	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	98	2706747	100.0	109.8	
66 n-Butanol	56	5.048	5.048	0.000	89	750978	2500.0	2497.7	
71 Methyl methacrylate	100	5.381	5.381	0.000	91	604327	200.0	222.1	
75 2-Nitropropane	41	5.734	5.734	0.000	98	502540	200.0	207.5	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	92	349652	200.0	194.2	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	725683	200.0	198.1	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	4302417	100.0	104.2	
119 1,3,5-Trichlorobenzene	180	10.974	10.970	0.004	97	1527308	100.0	105.0	
165 t-Amyl alcohol	1		0.000				ND	ND	
166 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

MV-Supp A_00064

Amount Added: 100.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3114.D

Injection Date: 29-Mar-2022 19:18:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD100

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

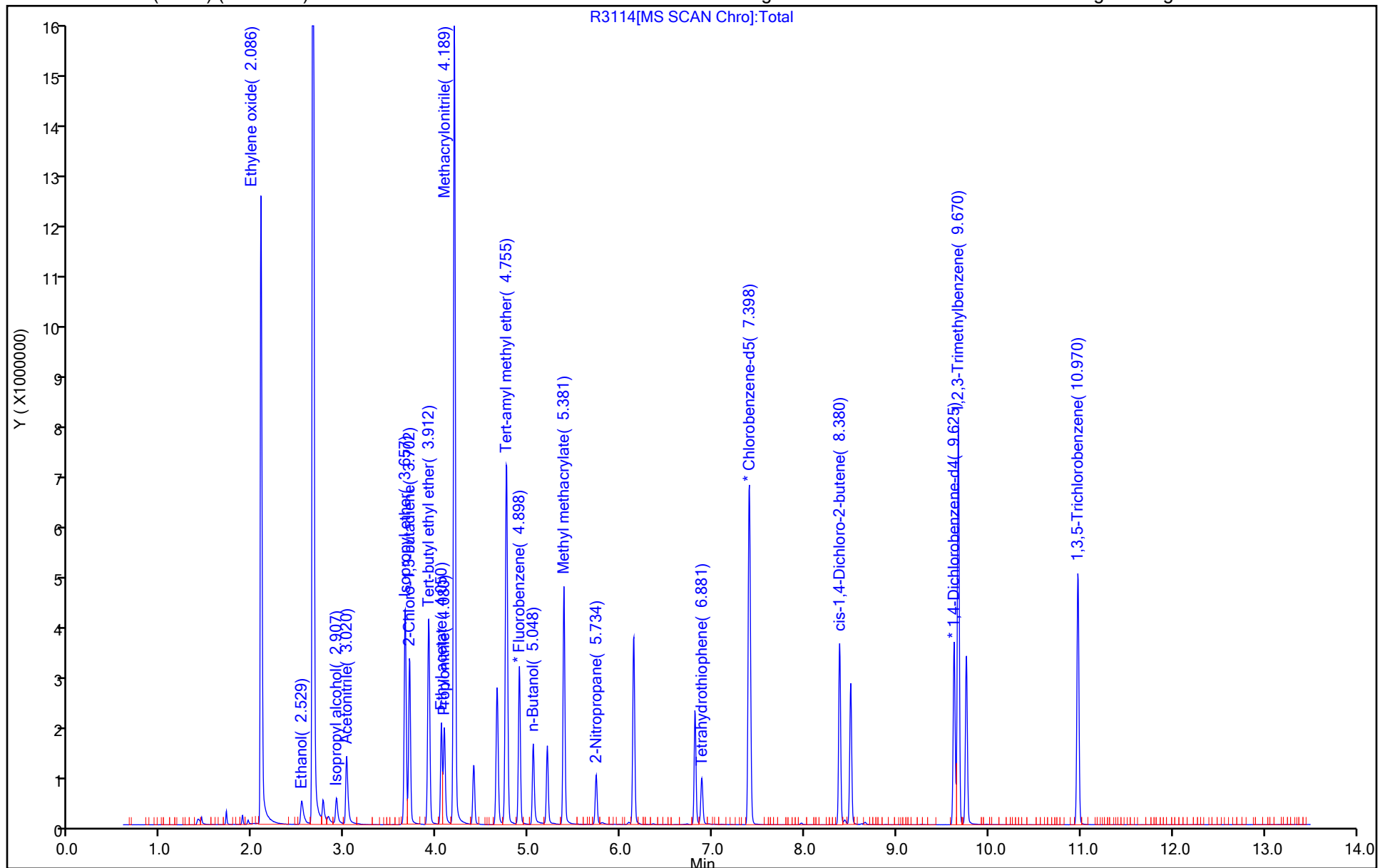
ALS Bottle#: 7

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Lims ID: STD200
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 29-Mar-2022 19:40:30 ALS Bottle#: 8 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD200
 Misc. Info.: 280-0109642-021
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 20:07:41 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 20:04:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2269508	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	88	550243	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	95	928839	50.0	50.0	
13 Ethylene oxide	43	2.075	2.097	-0.022	100	2296557	20000	4929.2	
18 Ethanol	45	2.536	2.525	0.011	100	1368163	12000	12785	
20 Propene oxide	58		2.656				ND	ND	U
25 Isopropyl alcohol	45	2.911	2.903	0.008	98	1314495	2000.0	2263.5	
28 Acetonitrile	41	3.020	3.016	0.004	99	2794599	2000.0	2067.7	
41 Isopropyl ether	87	3.657	3.657	0.000	93	1850939	200.0	233.4	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	92	3332699	200.0	223.7	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	6337238	200.0	230.3	
46 Ethyl acetate	43	4.051	4.050	0.001	99	3877499	400.0	450.3	
49 Propionitrile	54	4.081	4.080	0.001	99	3302329	2000.0	2031.3	
51 Methacrylonitrile	41	4.193	4.189	0.004	92	12734382	2000.0	1984.7	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	98	5769973	200.0	229.4	
66 n-Butanol	56	5.048	5.048	0.000	88	1636921	5000.0	5297.5	
71 Methyl methacrylate	100	5.381	5.381	0.000	90	1275788	400.0	459.5	
75 2-Nitropropane	41	5.734	5.734	0.000	98	1089095	400.0	440.8	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	92	750516	400.0	415.8	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	1573985	400.0	414.5	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	9012497	200.0	211.2	
119 1,3,5-Trichlorobenzene	180	10.971	10.970	0.001	97	3275032	200.0	217.7	
166 Ethyl acrylate	55		0.000				ND	ND	
165 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

U - Marked Undetected

Reagents:

MV-Supp A_00064

Amount Added: 200.00

Units: uL

mv-Cent IS_00006

Amount Added: 5.00

Units: uL

Report Date: 29-Mar-2022 20:07:42

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D

Injection Date: 29-Mar-2022 19:40:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: STD200

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

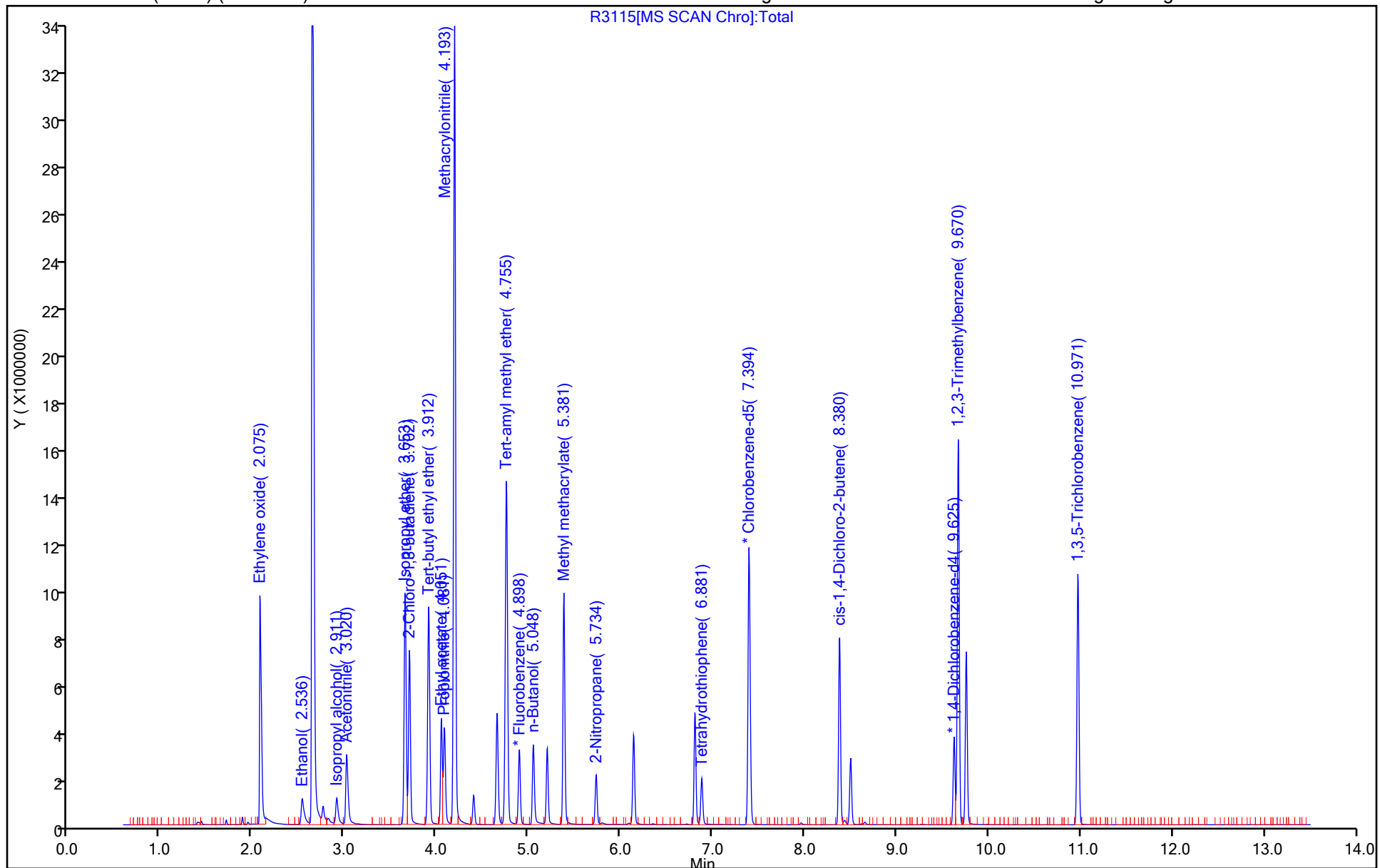
ALS Bottle#: 8

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

Calibration

/ Ethanol

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

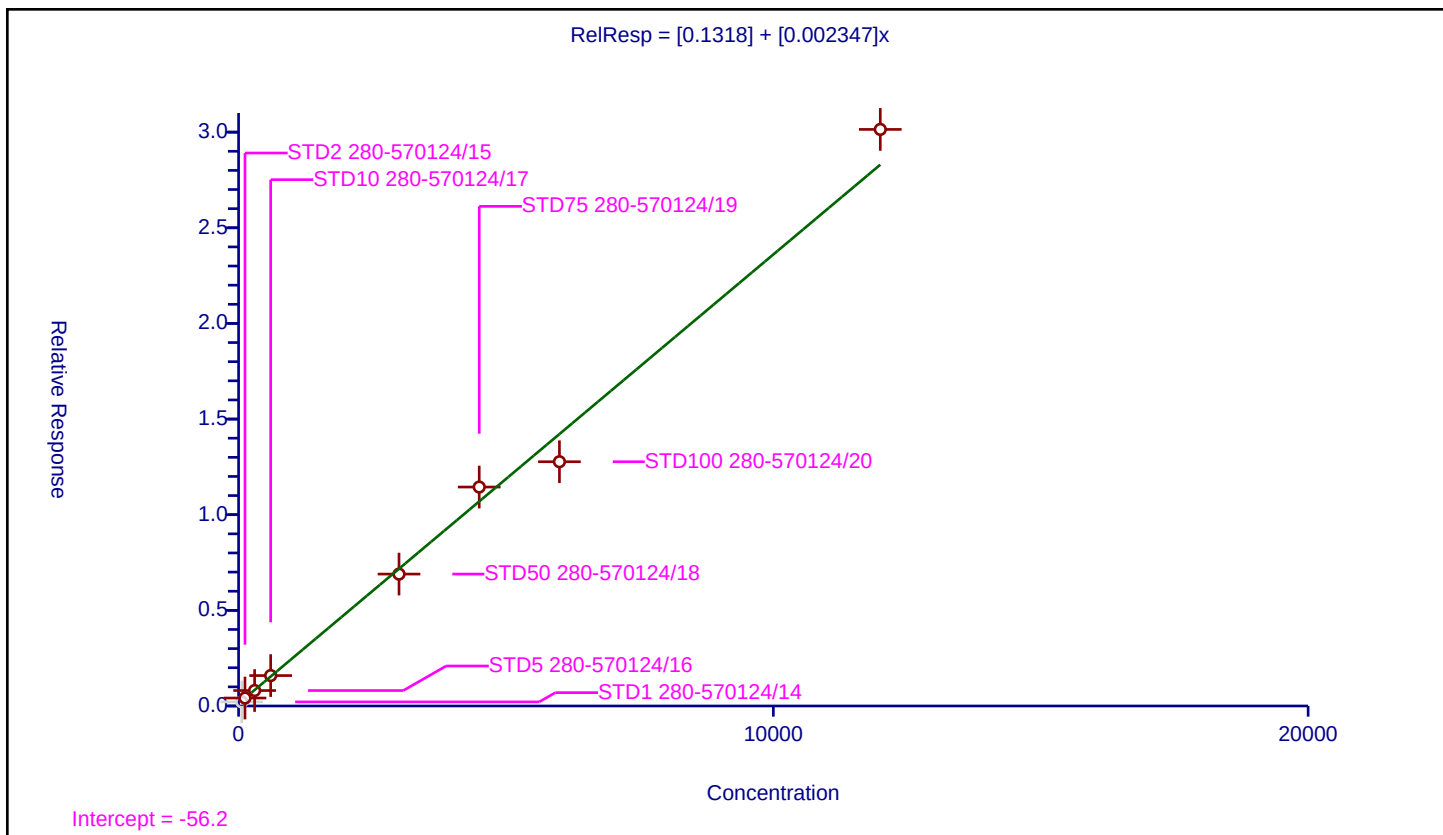
Curve Coefficients

Intercept: 0.1318
Slope: 0.002347

Error Coefficients

Standard Error: 713000
Relative Standard Error: 7.0
Correlation Coefficient: 0.992
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	60.0	0.213575	50.0	2057822.0	0.00356	N
2	STD2 280-570124/15	120.0	0.416276	50.0	1993988.0	0.003469	Y
3	STD5 280-570124/16	300.0	0.808383	50.0	2052802.0	0.002695	Y
4	STD10 280-570124/17	600.0	1.589829	50.0	2084470.0	0.00265	Y
5	STD50 280-570124/18	3000.0	6.895995	50.0	2144375.0	0.002299	Y
6	STD75 280-570124/19	4500.0	11.445813	50.0	2197061.0	0.002544	Y
7	STD100 280-570124/20	6000.0	12.769888	50.0	2223974.0	0.002128	Y
8	STD200 280-570124/21	12000.0	30.142282	50.0	2269508.0	0.002512	Y



Calibration

/ Isopropyl alcohol

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

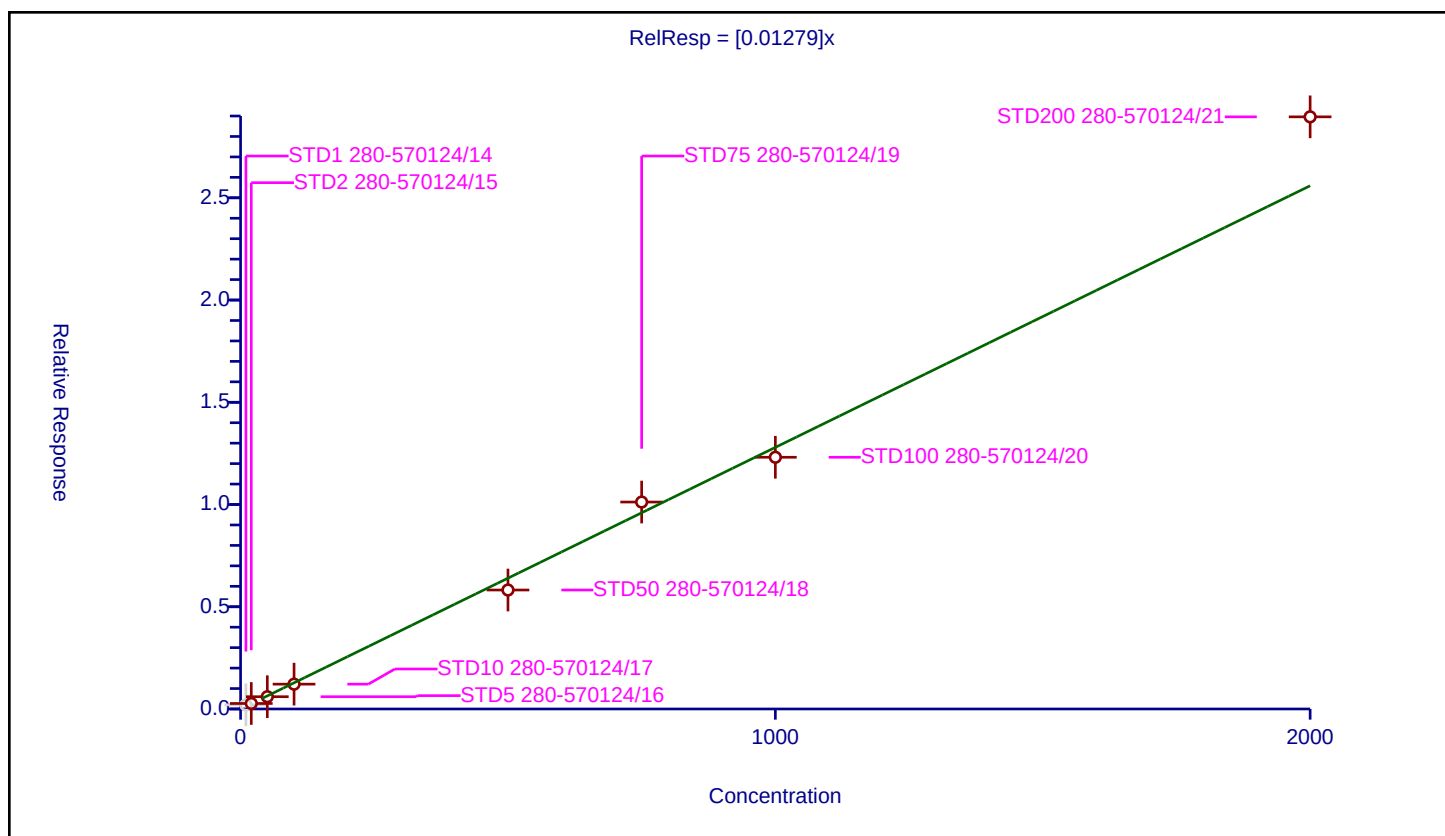
Curve Coefficients

Intercept: 0
Slope: 0.01279

Error Coefficients

Standard Error: 618000
Relative Standard Error: 8.1
Correlation Coefficient: 0.992
Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	10.0	0.201985	50.0	2057822.0	0.020199	N
2	STD2 280-570124/15	20.0	0.269686	50.0	1993988.0	0.013484	Y
3	STD5 280-570124/16	50.0	0.600545	50.0	2052802.0	0.012011	Y
4	STD10 280-570124/17	100.0	1.214313	50.0	2084470.0	0.012143	Y
5	STD50 280-570124/18	500.0	5.818828	50.0	2144375.0	0.011638	Y
6	STD75 280-570124/19	750.0	10.120497	50.0	2197061.0	0.013494	Y
7	STD100 280-570124/20	1000.0	12.31116	50.0	2223974.0	0.012311	Y
8	STD200 280-570124/21	2000.0	28.959911	50.0	2269508.0	0.01448	Y



Calibration

/ Acetonitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

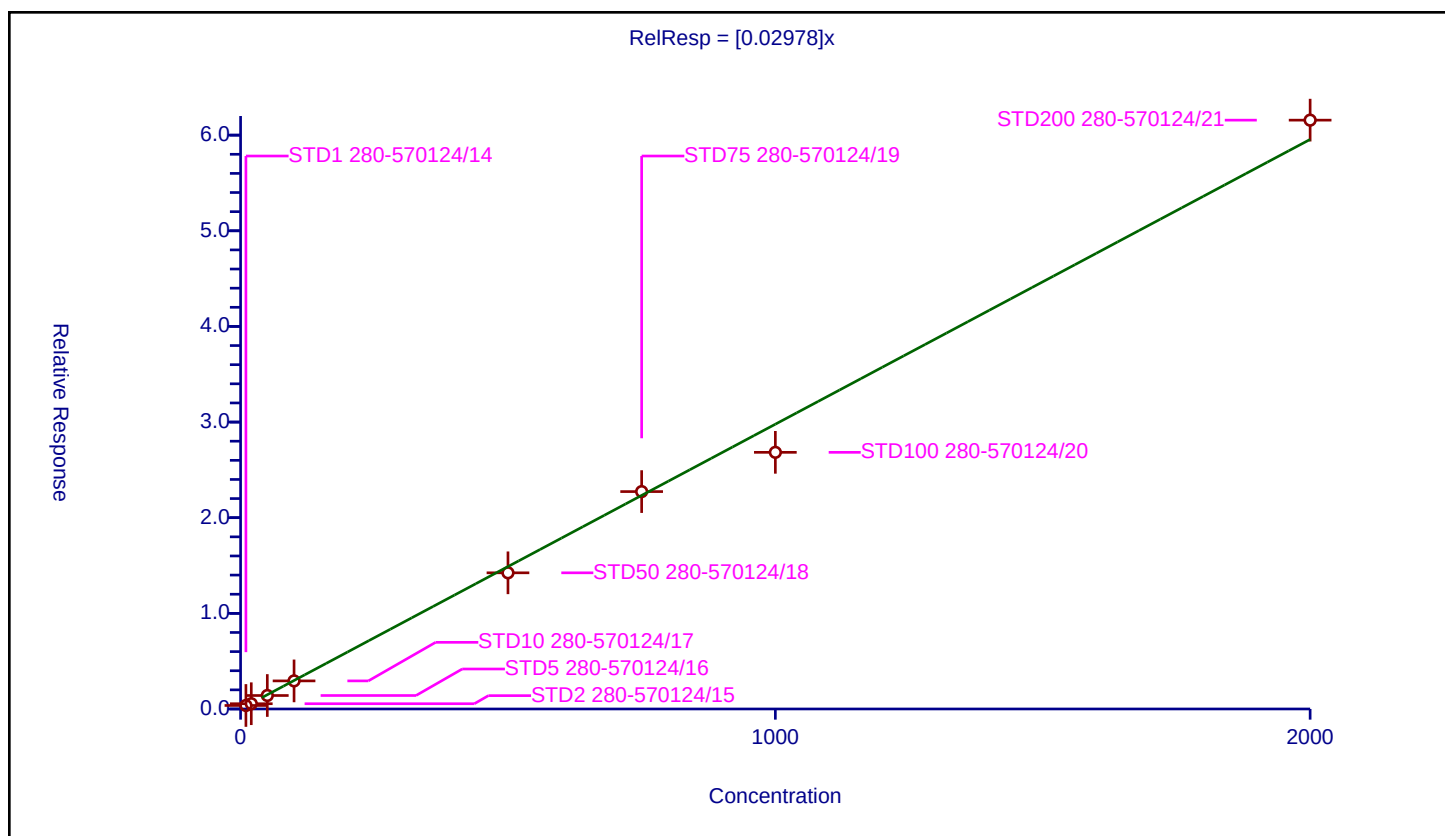
Curve Coefficients

Intercept: 0
Slope: 0.02978

Error Coefficients

Standard Error: 1230000
Relative Standard Error: 10.4
Correlation Coefficient: 0.995
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	10.0	0.366796	50.0	2057822.0	0.03668	Y
2	STD2 280-570124/15	20.0	0.551182	50.0	1993988.0	0.027559	Y
3	STD5 280-570124/16	50.0	1.40978	50.0	2052802.0	0.028196	Y
4	STD10 280-570124/17	100.0	2.937221	50.0	2084470.0	0.029372	Y
5	STD50 280-570124/18	500.0	14.237948	50.0	2144375.0	0.028476	Y
6	STD75 280-570124/19	750.0	22.730093	50.0	2197061.0	0.030307	Y
7	STD100 280-570124/20	1000.0	26.835431	50.0	2223974.0	0.026835	Y
8	STD200 280-570124/21	2000.0	61.568388	50.0	2269508.0	0.030784	Y



Calibration

/ Isopropyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

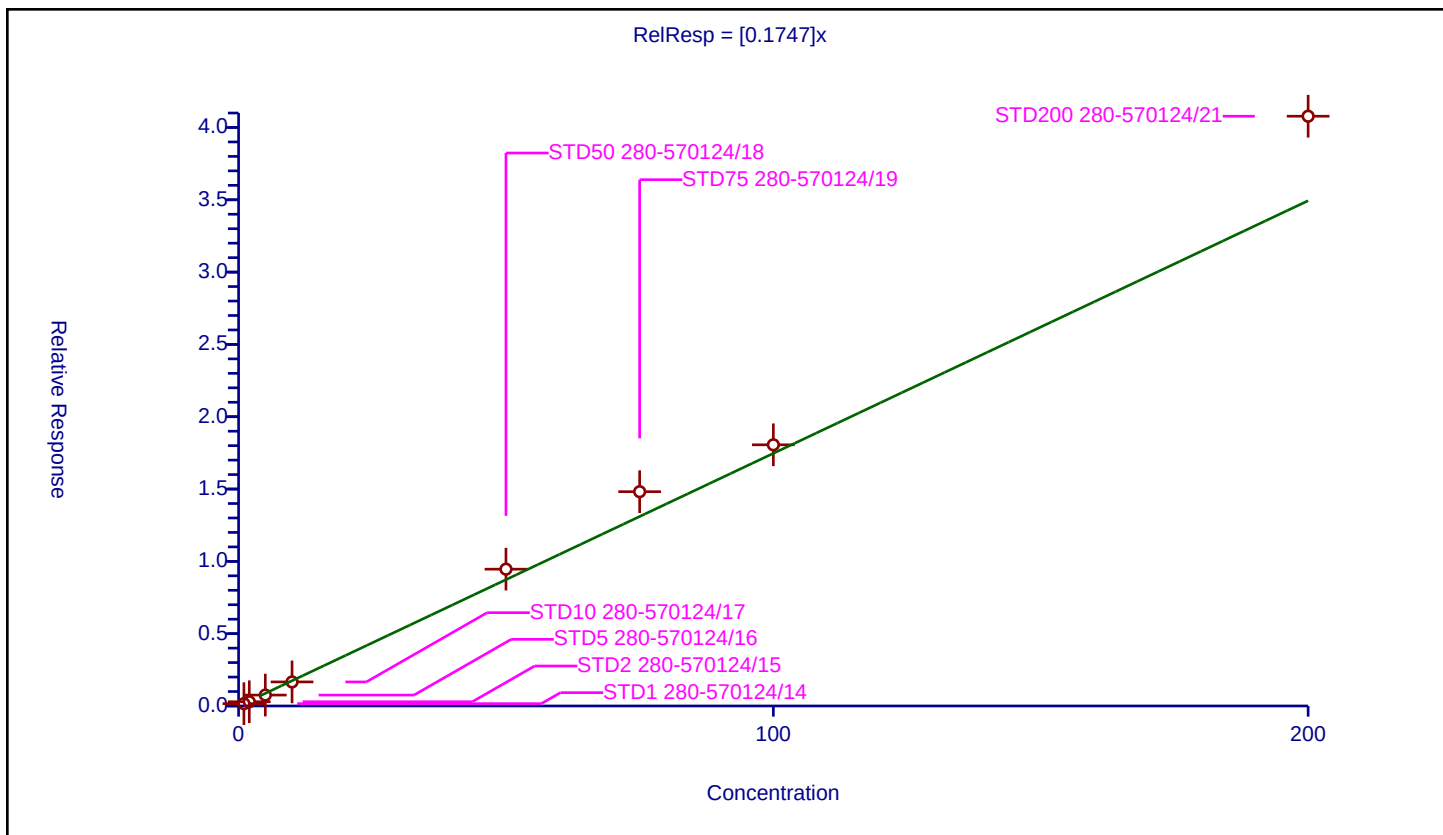
Curve Coefficients

Intercept: 0
 Slope: 0.1747

Error Coefficients

Standard Error: 816000
 Relative Standard Error: 12.2
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	0.161773	50.0	2057822.0	0.161773	Y
2	STD2 280-570124/15	2.0	0.294435	50.0	1993988.0	0.147218	Y
3	STD5 280-570124/16	5.0	0.754384	50.0	2052802.0	0.150877	Y
4	STD10 280-570124/17	10.0	1.663109	50.0	2084470.0	0.166311	Y
5	STD50 280-570124/18	50.0	9.460519	50.0	2144375.0	0.18921	Y
6	STD75 280-570124/19	75.0	14.81693	50.0	2197061.0	0.197559	Y
7	STD100 280-570124/20	100.0	18.058664	50.0	2223974.0	0.180587	Y
8	STD200 280-570124/21	200.0	40.77842	50.0	2269508.0	0.203892	Y



Calibration

/ 2-Chloro-1,3-butadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

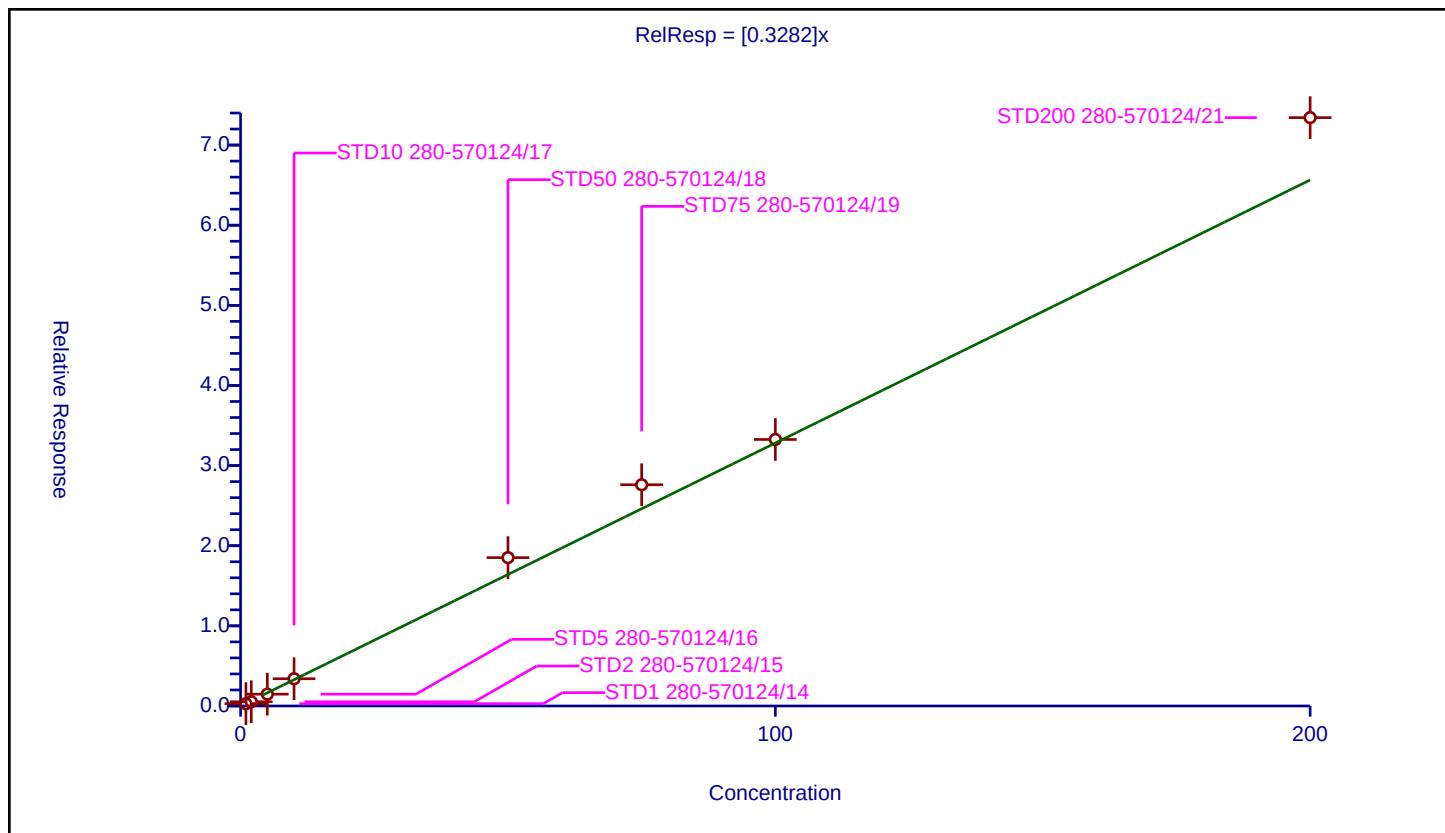
Curve Coefficients

Intercept: 0
 Slope: 0.3282

Error Coefficients

Standard Error: 1480000
 Relative Standard Error: 12.5
 Correlation Coefficient: 0.997
 Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	0.287634	50.0	2057822.0	0.287634	Y
2	STD2 280-570124/15	2.0	0.529015	50.0	1993988.0	0.264508	Y
3	STD5 280-570124/16	5.0	1.476957	50.0	2052802.0	0.295391	Y
4	STD10 280-570124/17	10.0	3.397938	50.0	2084470.0	0.339794	Y
5	STD50 280-570124/18	50.0	18.515815	50.0	2144375.0	0.370316	Y
6	STD75 280-570124/19	75.0	27.610863	50.0	2197061.0	0.368145	Y
7	STD100 280-570124/20	100.0	33.259449	50.0	2223974.0	0.332594	Y
8	STD200 280-570124/21	200.0	73.423381	50.0	2269508.0	0.367117	Y



Calibration

/ Tert-butyl ethyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

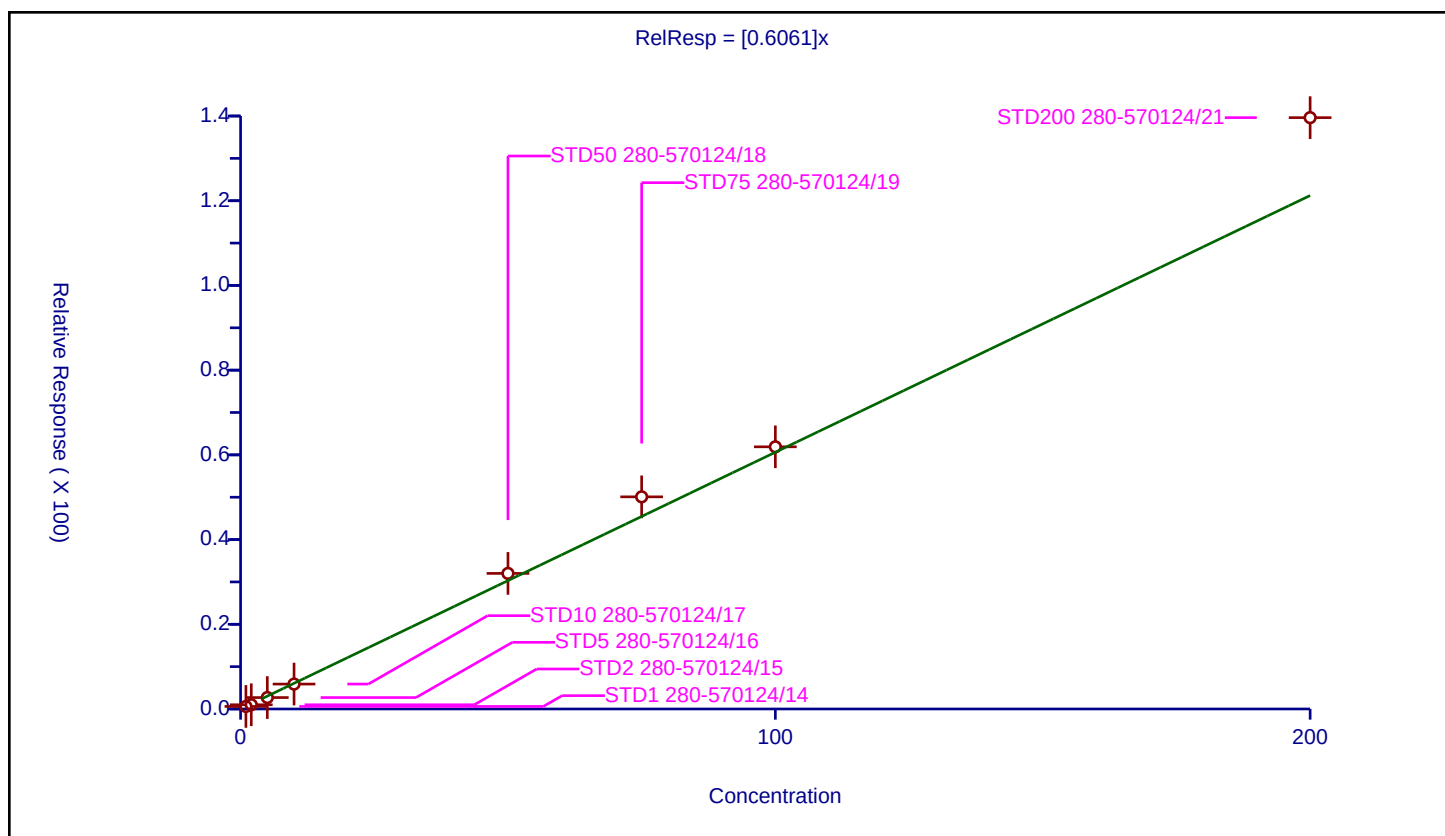
Curve Coefficients

Intercept: 0
 Slope: 0.6061

Error Coefficients

Standard Error: 2790000
 Relative Standard Error: 10.8
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	0.598132	50.0	2057822.0	0.598132	Y
2	STD2 280-570124/15	2.0	0.996169	50.0	1993988.0	0.498085	Y
3	STD5 280-570124/16	5.0	2.695925	50.0	2052802.0	0.539185	Y
4	STD10 280-570124/17	10.0	5.885525	50.0	2084470.0	0.588552	Y
5	STD50 280-570124/18	50.0	32.011519	50.0	2144375.0	0.64023	Y
6	STD75 280-570124/19	75.0	50.090302	50.0	2197061.0	0.667871	Y
7	STD100 280-570124/20	100.0	61.897644	50.0	2223974.0	0.618976	Y
8	STD200 280-570124/21	200.0	139.617001	50.0	2269508.0	0.698085	Y



Calibration

/ Ethyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

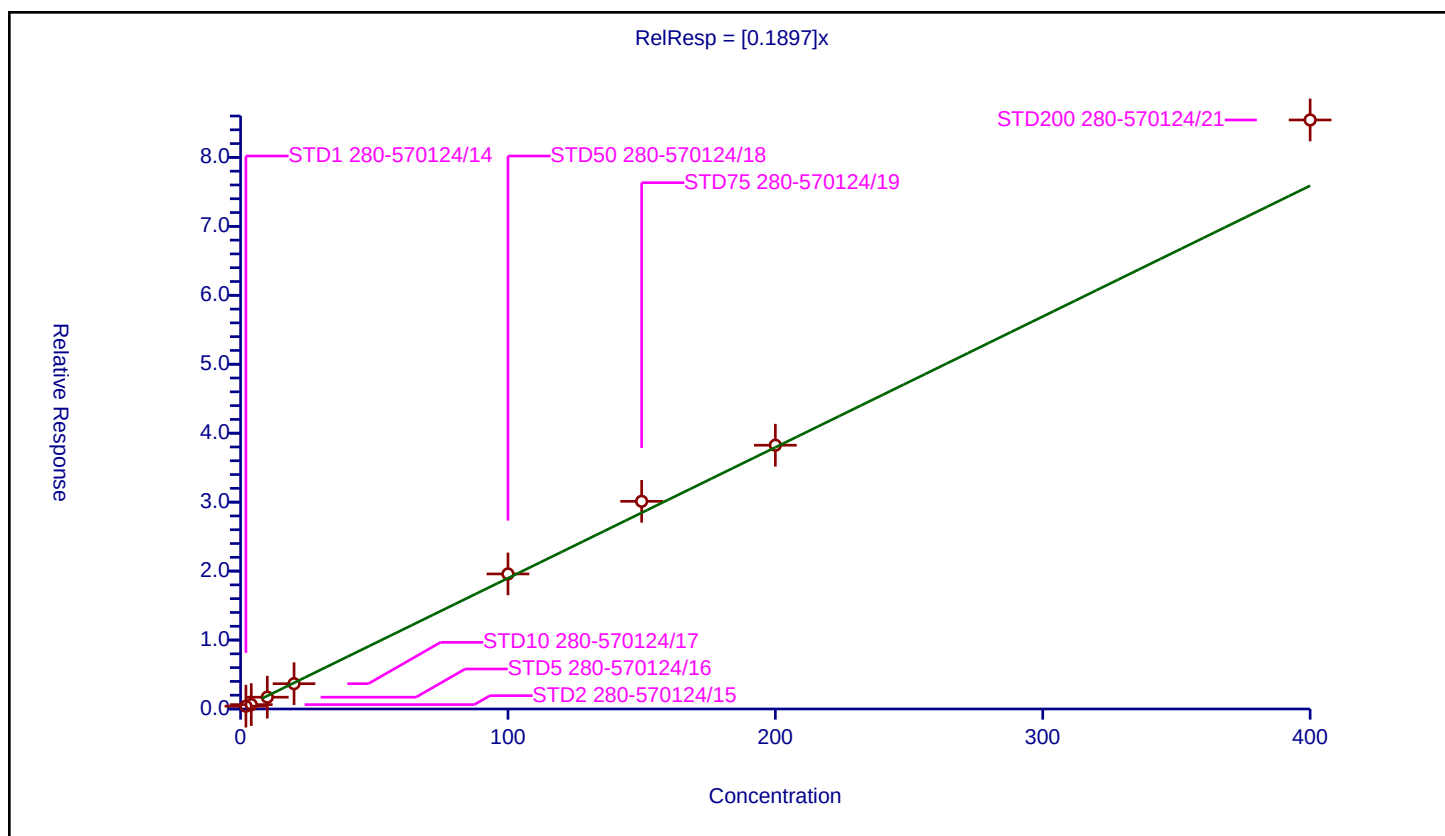
Curve Coefficients

Intercept: 0
Slope: 0.1897

Error Coefficients

Standard Error: 1710000
Relative Standard Error: 9.4
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	2.0	0.405793	50.0	2057822.0	0.202897	Y
2	STD2 280-570124/15	4.0	0.635109	50.0	1993988.0	0.158777	Y
3	STD5 280-570124/16	10.0	1.712927	50.0	2052802.0	0.171293	Y
4	STD10 280-570124/17	20.0	3.667431	50.0	2084470.0	0.183372	Y
5	STD50 280-570124/18	100.0	19.586126	50.0	2144375.0	0.195861	Y
6	STD75 280-570124/19	150.0	30.119009	50.0	2197061.0	0.200793	Y
7	STD100 280-570124/20	200.0	38.255303	50.0	2223974.0	0.191277	Y
8	STD200 280-570124/21	400.0	85.425982	50.0	2269508.0	0.213565	Y



Calibration

/ Propionitrile

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

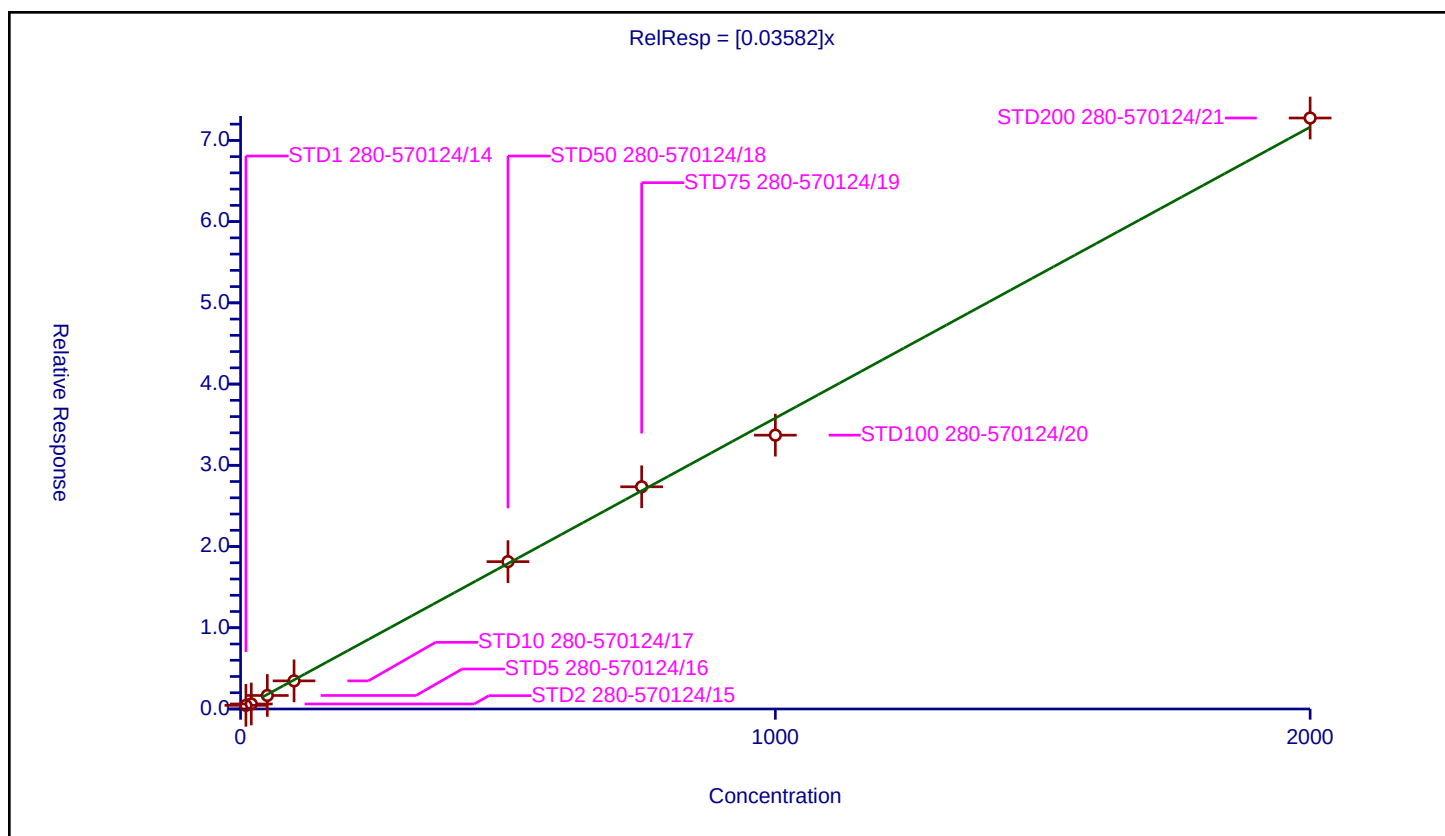
Curve Coefficients

Intercept: 0
Slope: 0.03582

Error Coefficients

Standard Error: 1480000
Relative Standard Error: 11.6
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	10.0	0.449164	50.0	2057822.0	0.044916	Y
2	STD2 280-570124/15	20.0	0.617632	50.0	1993988.0	0.030882	Y
3	STD5 280-570124/16	50.0	1.662873	50.0	2052802.0	0.033257	Y
4	STD10 280-570124/17	100.0	3.462799	50.0	2084470.0	0.034628	Y
5	STD50 280-570124/18	500.0	18.14081	50.0	2144375.0	0.036282	Y
6	STD75 280-570124/19	750.0	27.355772	50.0	2197061.0	0.036474	Y
7	STD100 280-570124/20	1000.0	33.709342	50.0	2223974.0	0.033709	Y
8	STD200 280-570124/21	2000.0	72.754293	50.0	2269508.0	0.036377	Y



Calibration

/ Methacrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

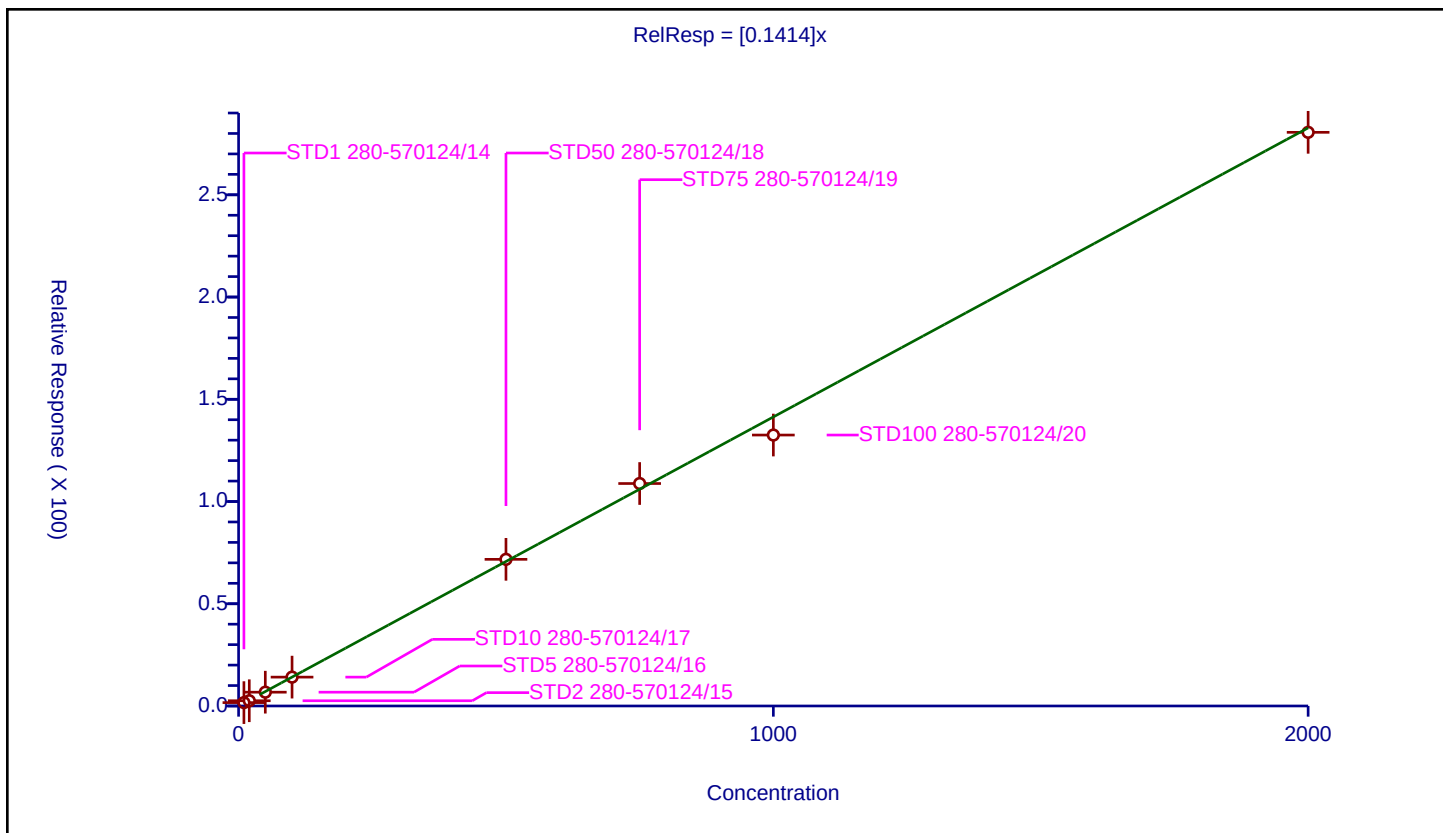
Curve Coefficients

Intercept: 0
 Slope: 0.1414

Error Coefficients

Standard Error: 5730000
 Relative Standard Error: 8.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	10.0	1.654273	50.0	2057822.0	0.165427	Y
2	STD2 280-570124/15	20.0	2.557488	50.0	1993988.0	0.127874	Y
3	STD5 280-570124/16	50.0	6.75484	50.0	2052802.0	0.135097	Y
4	STD10 280-570124/17	100.0	14.119009	50.0	2084470.0	0.14119	Y
5	STD50 280-570124/18	500.0	71.727986	50.0	2144375.0	0.143456	Y
6	STD75 280-570124/19	750.0	108.798754	50.0	2197061.0	0.145065	Y
7	STD100 280-570124/20	1000.0	132.505618	50.0	2223974.0	0.132506	Y
8	STD200 280-570124/21	2000.0	280.553803	50.0	2269508.0	0.140277	Y



Calibration

/ Tert-amyl methyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

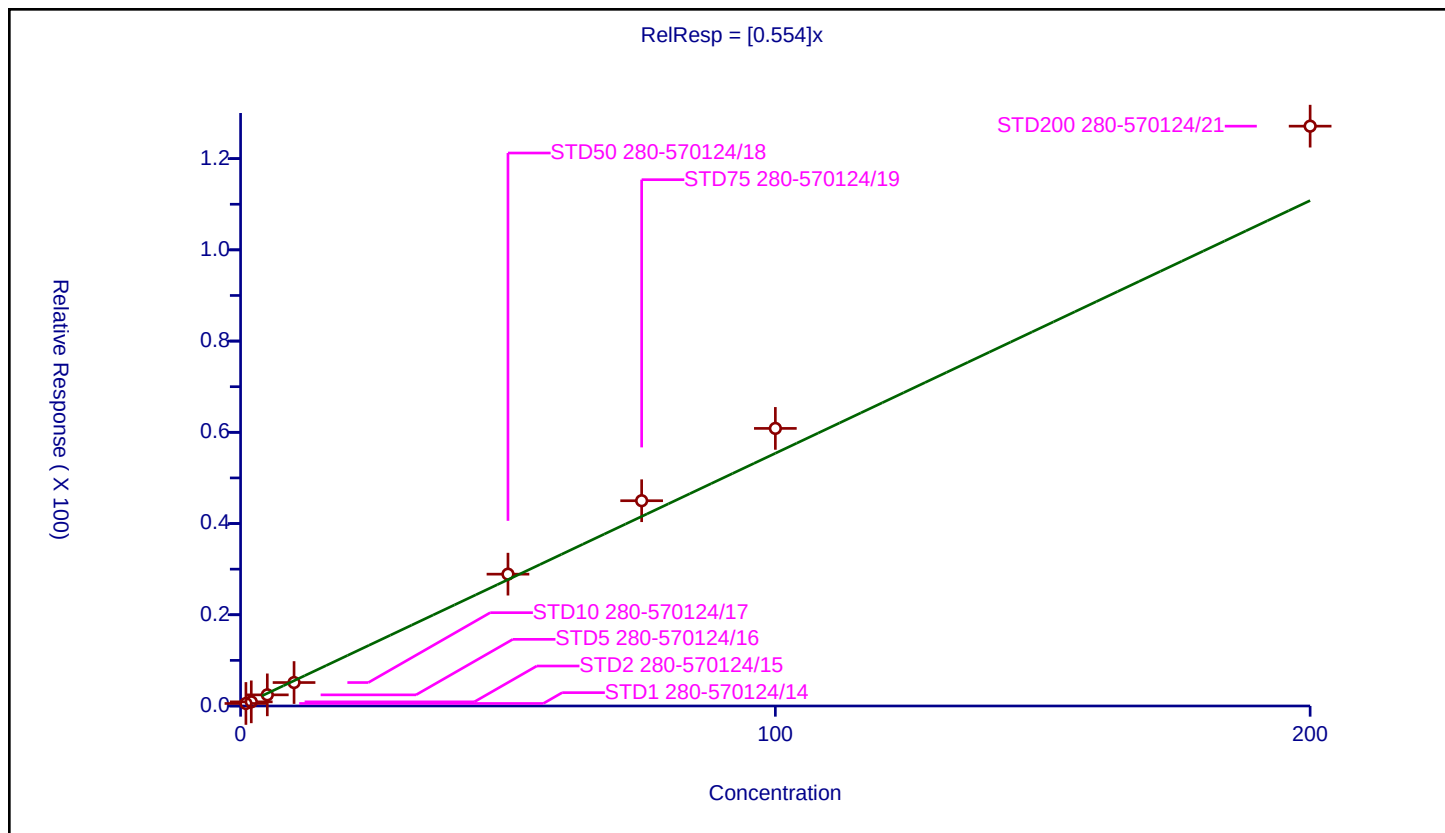
Curve Coefficients

Intercept: 0
Slope: 0.554

Error Coefficients

Standard Error: 2570000
Relative Standard Error: 11.4
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	0.552332	50.0	2057822.0	0.552332	Y
2	STD2 280-570124/15	2.0	0.910988	50.0	1993988.0	0.455494	Y
3	STD5 280-570124/16	5.0	2.441322	50.0	2052802.0	0.488264	Y
4	STD10 280-570124/17	10.0	5.139436	50.0	2084470.0	0.513944	Y
5	STD50 280-570124/18	50.0	28.899166	50.0	2144375.0	0.577983	Y
6	STD75 280-570124/19	75.0	45.003644	50.0	2197061.0	0.600049	Y
7	STD100 280-570124/20	100.0	60.853836	50.0	2223974.0	0.608538	Y
8	STD200 280-570124/21	200.0	127.119468	50.0	2269508.0	0.635597	Y



Calibration

/ n-Butanol

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

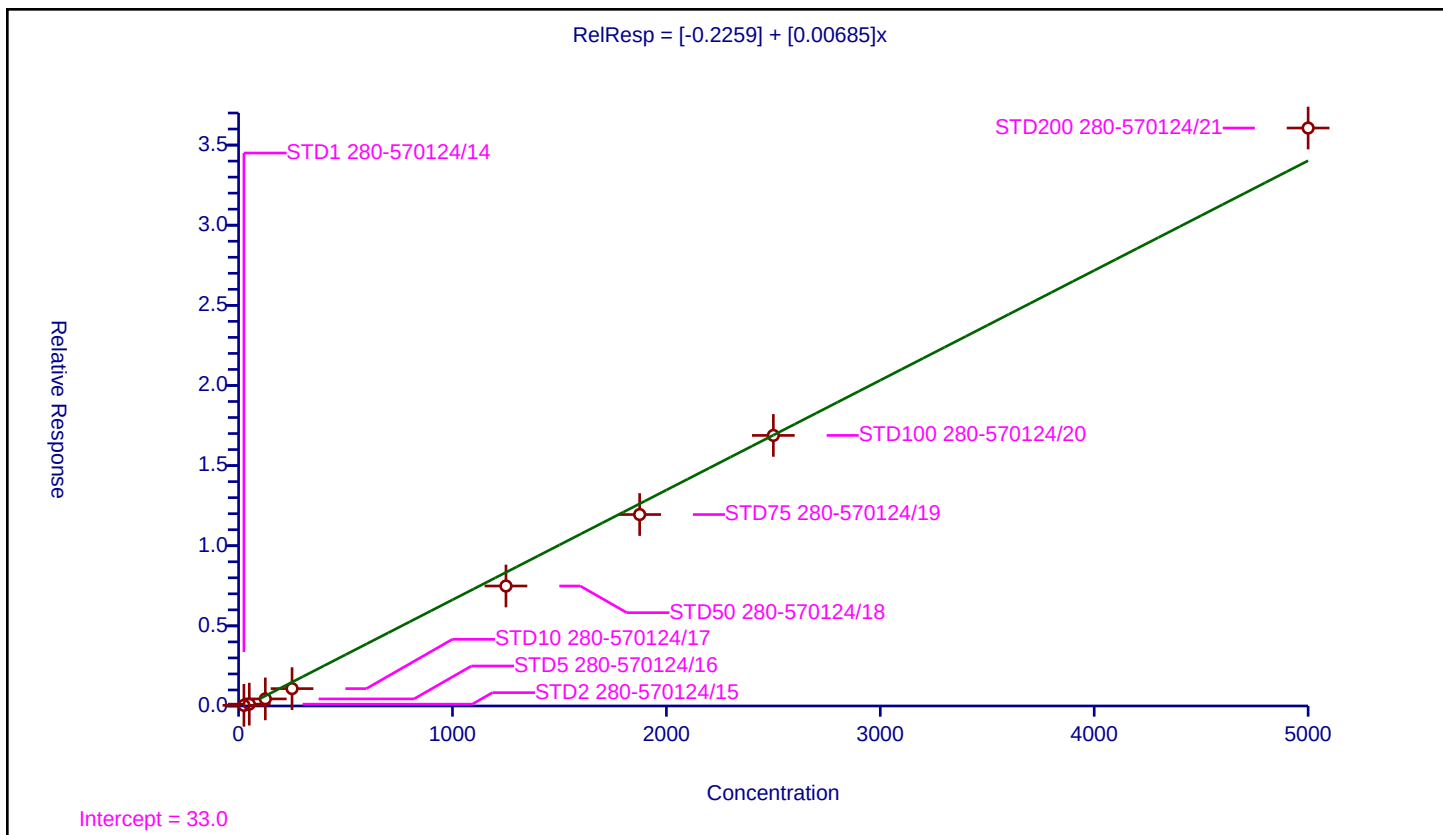
Curve Coefficients

Intercept: -0.2259
 Slope: 0.00685

Error Coefficients

Standard Error: 777000
 Relative Standard Error: 26.7
 Correlation Coefficient: 0.996
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	25.0	0.040455	50.0	2057822.0	0.001618	Y
2	STD2 280-570124/15	50.0	0.114118	50.0	1993988.0	0.002282	Y
3	STD5 280-570124/16	125.0	0.442395	50.0	2052802.0	0.003539	Y
4	STD10 280-570124/17	250.0	1.083345	50.0	2084470.0	0.004333	Y
5	STD50 280-570124/18	1250.0	7.486214	50.0	2144375.0	0.005989	Y
6	STD75 280-570124/19	1875.0	11.945595	50.0	2197061.0	0.006371	Y
7	STD100 280-570124/20	2500.0	16.883696	50.0	2223974.0	0.006753	Y
8	STD200 280-570124/21	5000.0	36.063345	50.0	2269508.0	0.007213	Y



Calibration

/ Methyl methacrylate

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

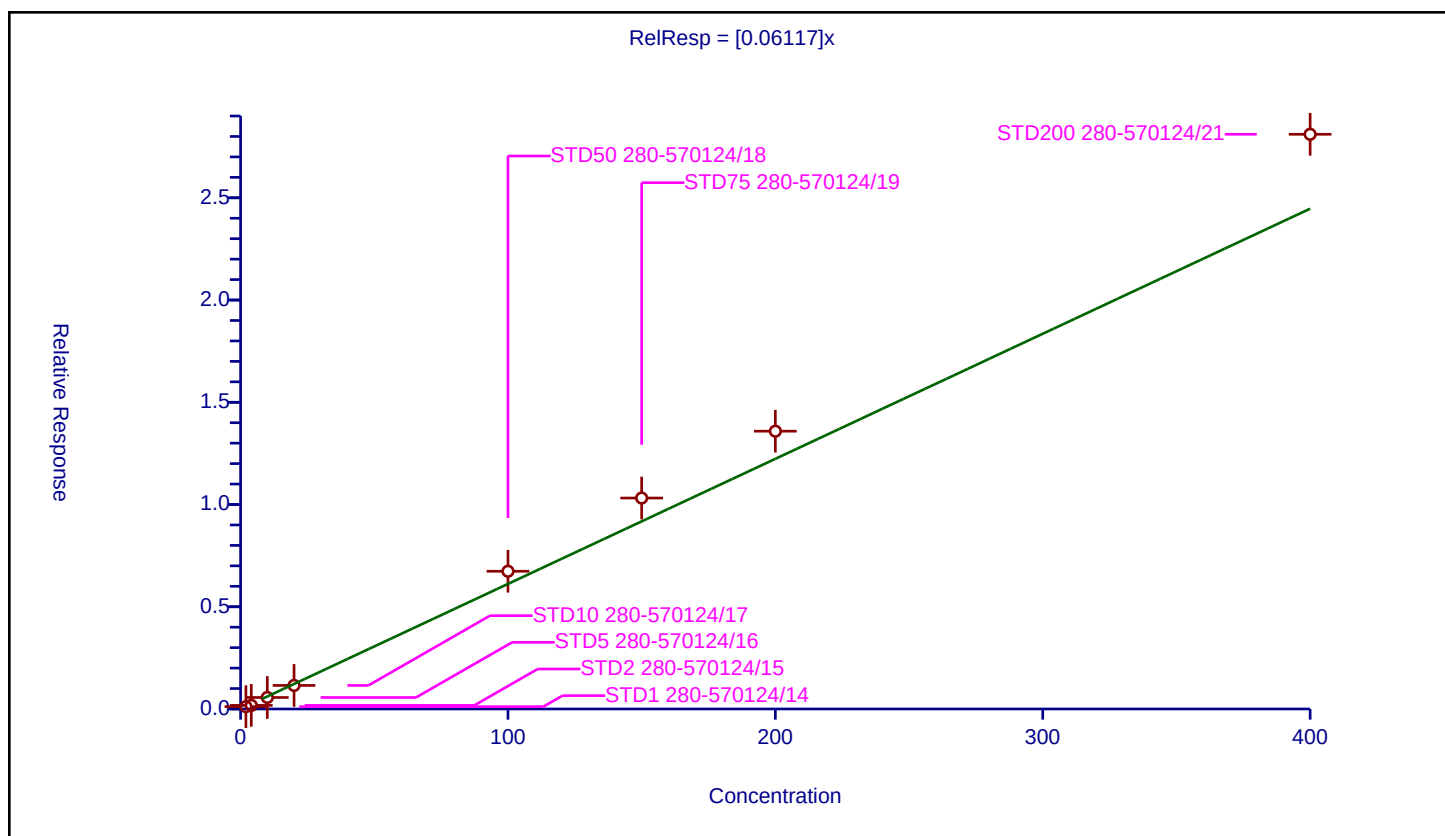
Curve Coefficients

Intercept: 0
 Slope: 0.06117

Error Coefficients

Standard Error: 571000
 Relative Standard Error: 14.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.975

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	2.0	0.113469	50.0	2057822.0	0.056735	Y
2	STD2 280-570124/15	4.0	0.177233	50.0	1993988.0	0.044308	Y
3	STD5 280-570124/16	10.0	0.563352	50.0	2052802.0	0.056335	Y
4	STD10 280-570124/17	20.0	1.152259	50.0	2084470.0	0.057613	Y
5	STD50 280-570124/18	100.0	6.735762	50.0	2144375.0	0.067358	Y
6	STD75 280-570124/19	150.0	10.316668	50.0	2197061.0	0.068778	Y
7	STD100 280-570124/20	200.0	13.586647	50.0	2223974.0	0.067933	Y
8	STD200 280-570124/21	400.0	28.107149	50.0	2269508.0	0.070268	Y



Calibration

/ 2-Nitropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

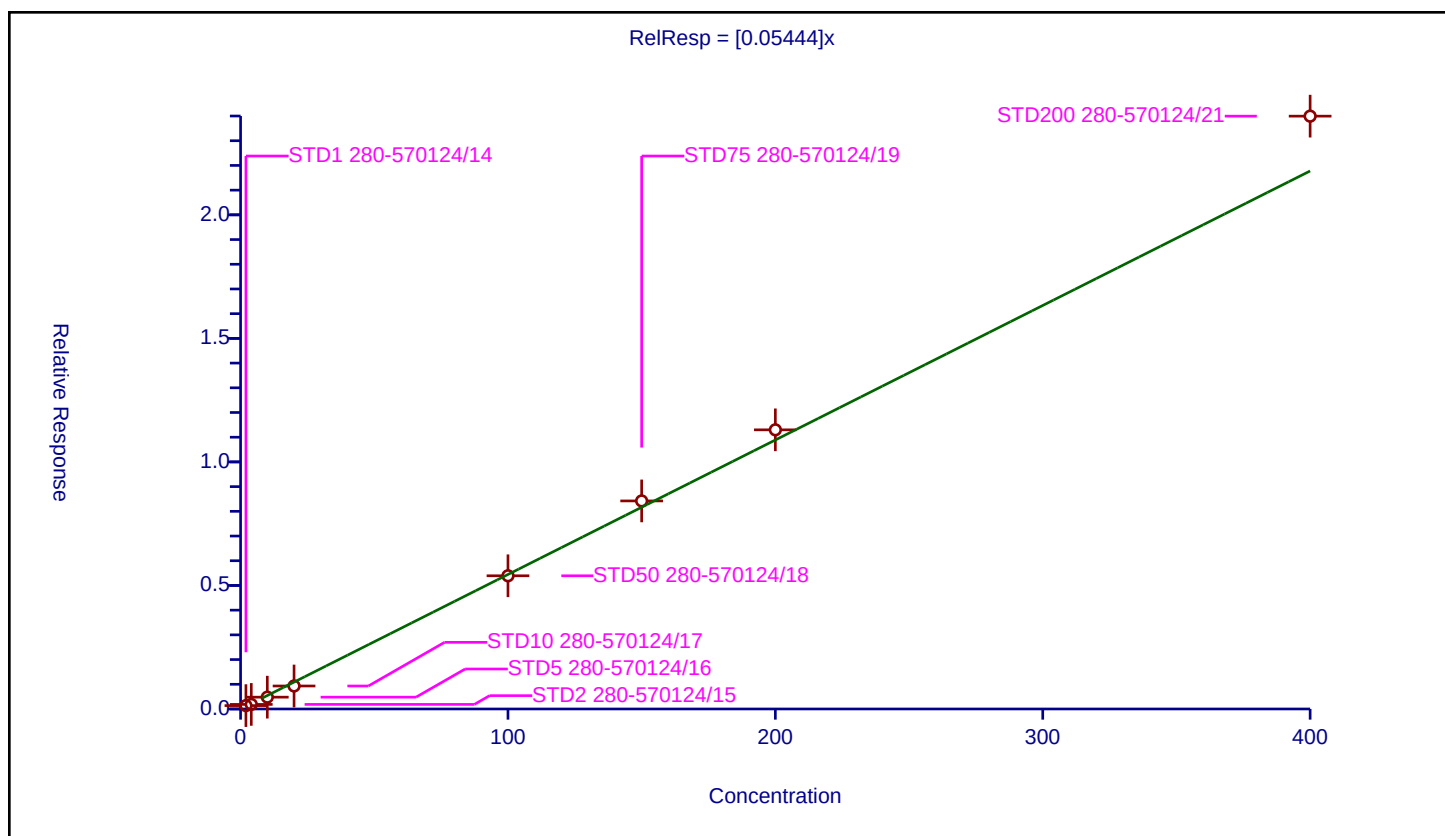
Curve Coefficients

Intercept: 0
Slope: 0.05444

Error Coefficients

Standard Error: 483000
Relative Standard Error: 13.9
Correlation Coefficient: 0.998
Coefficient of Determination (Adjusted): 0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	2.0	0.136455	50.0	2057822.0	0.068227	Y
2	STD2 280-570124/15	4.0	0.185457	50.0	1993988.0	0.046364	Y
3	STD5 280-570124/16	10.0	0.478249	50.0	2052802.0	0.047825	Y
4	STD10 280-570124/17	20.0	0.931076	50.0	2084470.0	0.046554	Y
5	STD50 280-570124/18	100.0	5.391571	50.0	2144375.0	0.053916	Y
6	STD75 280-570124/19	150.0	8.421136	50.0	2197061.0	0.056141	Y
7	STD100 280-570124/20	200.0	11.298244	50.0	2223974.0	0.056491	Y
8	STD200 280-570124/21	400.0	23.994077	50.0	2269508.0	0.059985	Y



Calibration

/ cis-1,4-Dichloro-2-butene

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

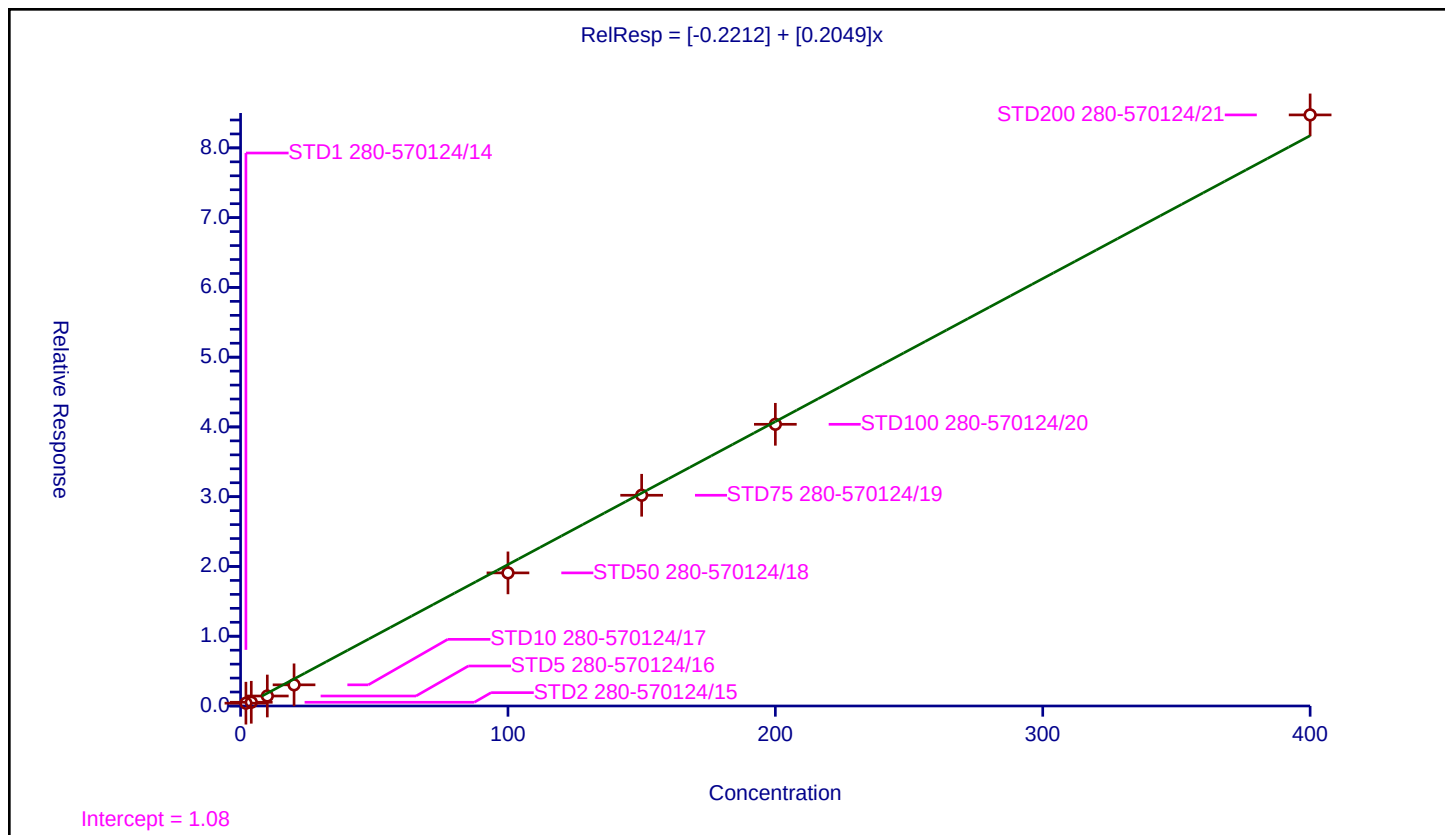
Curve Coefficients

Intercept: -0.2212
Slope: 0.2049

Error Coefficients

Standard Error: 752000
Relative Standard Error: 24.5
Correlation Coefficient: 0.997
Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	2.0	0.401504	50.0	847314.0	0.200752	Y
2	STD2 280-570124/15	4.0	0.53386	50.0	819971.0	0.133465	Y
3	STD5 280-570124/16	10.0	1.4326	50.0	828738.0	0.14326	Y
4	STD10 280-570124/17	20.0	3.032702	50.0	826804.0	0.151635	Y
5	STD50 280-570124/18	100.0	19.082015	50.0	857454.0	0.19082	Y
6	STD75 280-570124/19	150.0	30.208521	50.0	879338.0	0.20139	Y
7	STD100 280-570124/20	200.0	40.3806	50.0	898554.0	0.201903	Y
8	STD200 280-570124/21	400.0	84.728624	50.0	928839.0	0.211822	Y



Calibration

/ 1,2,3-Trimethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

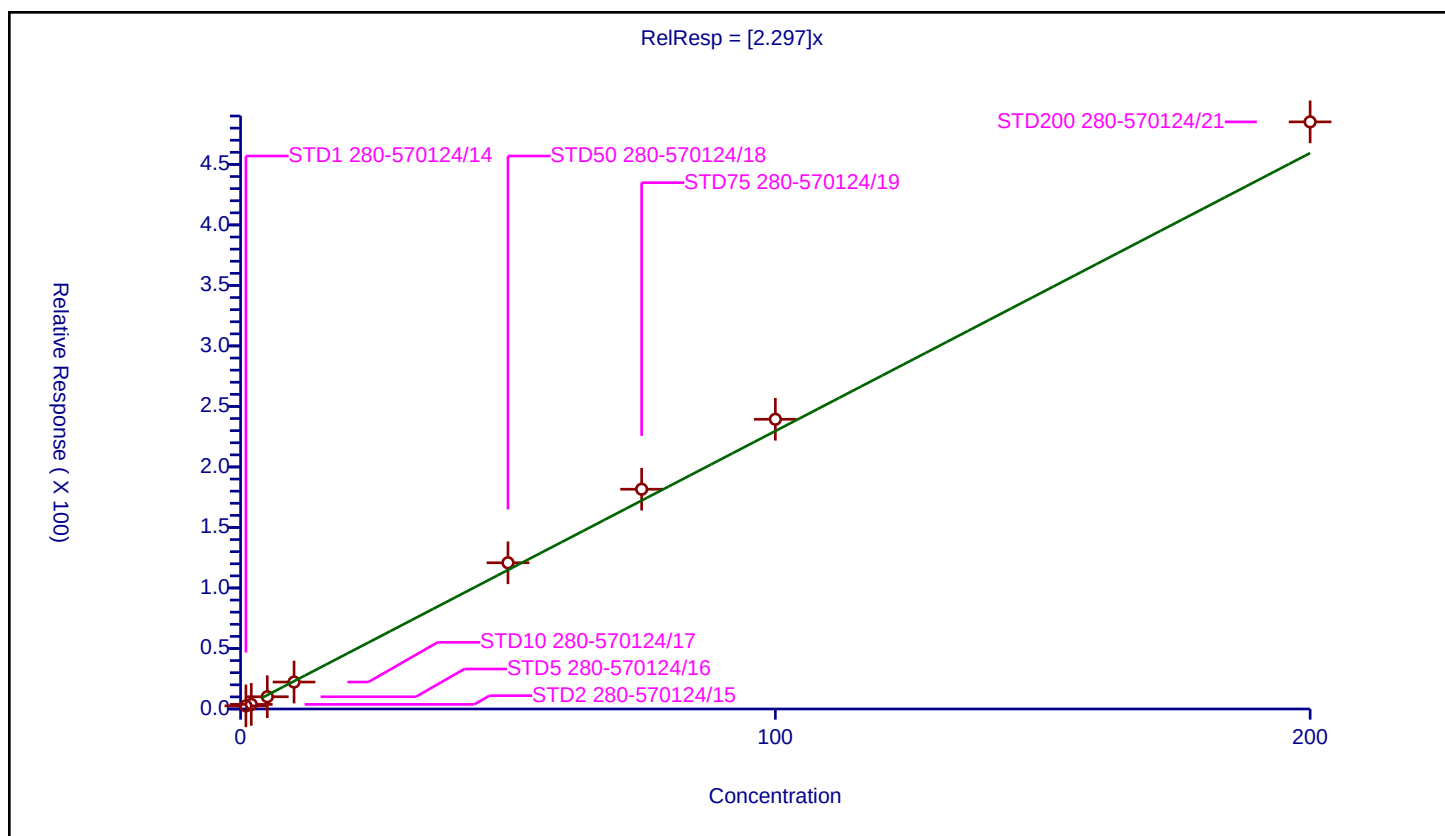
Curve Coefficients

Intercept: 0
Slope: 2.297

Error Coefficients

Standard Error: 4040000
Relative Standard Error: 9.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	2.560444	50.0	847314.0	2.560444	Y
2	STD2 280-570124/15	2.0	3.804952	50.0	819971.0	1.902476	Y
3	STD5 280-570124/16	5.0	10.132816	50.0	828738.0	2.026563	Y
4	STD10 280-570124/17	10.0	22.273114	50.0	826804.0	2.227311	Y
5	STD50 280-570124/18	50.0	120.836453	50.0	857454.0	2.416729	Y
6	STD75 280-570124/19	75.0	181.617706	50.0	879338.0	2.421569	Y
7	STD100 280-570124/20	100.0	239.407815	50.0	898554.0	2.394078	Y
8	STD200 280-570124/21	200.0	485.148503	50.0	928839.0	2.425743	Y



Calibration

/ 1,3,5-Trichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

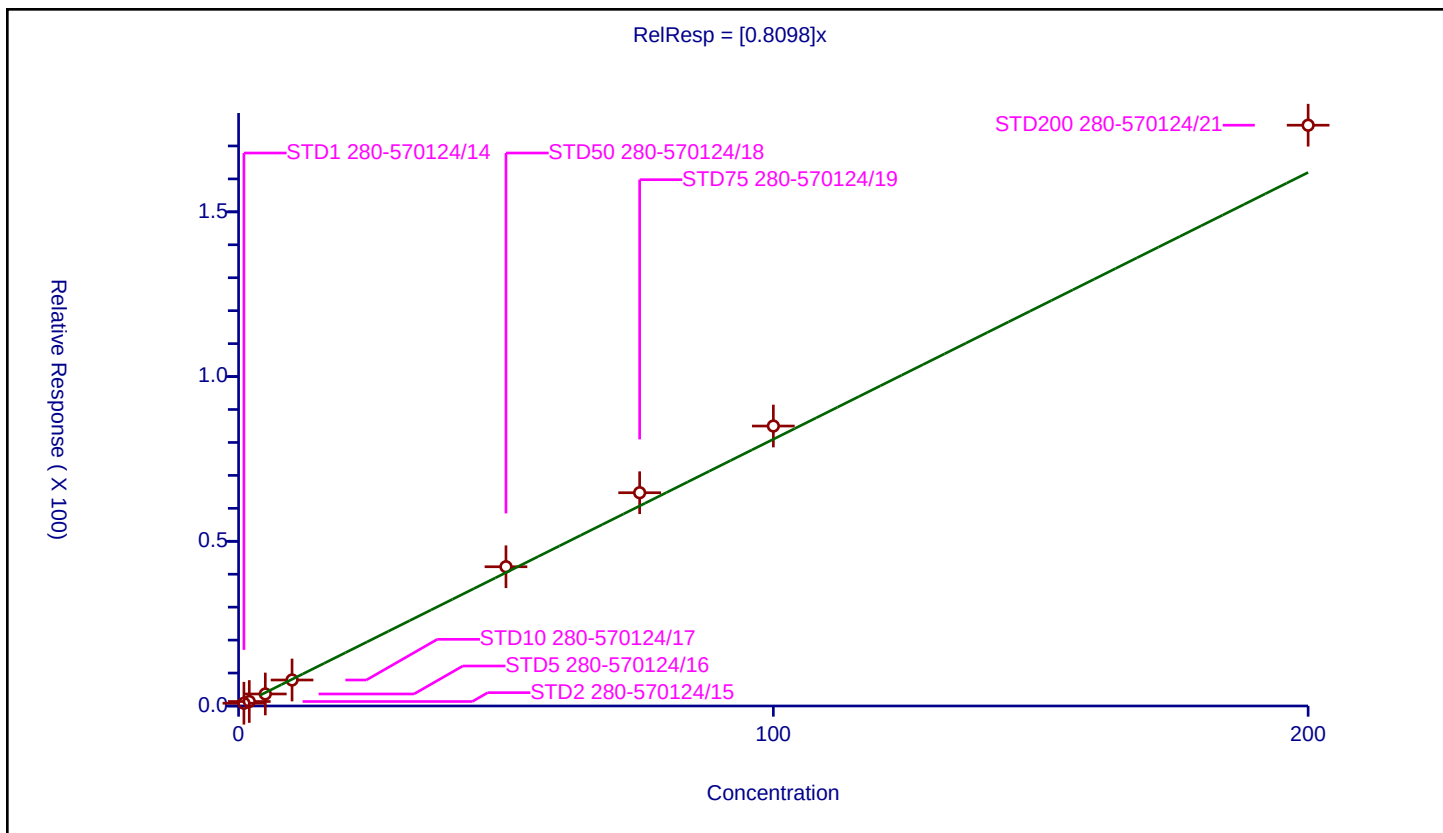
Curve Coefficients

Intercept: 0
 Slope: 0.8098

Error Coefficients

Standard Error: 1460000
 Relative Standard Error: 8.7
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	STD1 280-570124/14	1.0	0.836467	50.0	847314.0	0.836467	Y
2	STD2 280-570124/15	2.0	1.367304	50.0	819971.0	0.683652	Y
3	STD5 280-570124/16	5.0	3.645302	50.0	828738.0	0.72906	Y
4	STD10 280-570124/17	10.0	7.892136	50.0	826804.0	0.789214	Y
5	STD50 280-570124/18	50.0	42.26699	50.0	857454.0	0.84534	Y
6	STD75 280-570124/19	75.0	64.735119	50.0	879338.0	0.863135	Y
7	STD100 280-570124/20	100.0	84.98699	50.0	898554.0	0.84987	Y
8	STD200 280-570124/21	200.0	176.297076	50.0	928839.0	0.881485	Y



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-621220/21	R_6578.D
Level 2	IC 280-621220/20	R_6577.D
Level 3	IC 280-621220/19	R_6576.D
Level 4	IC 280-621220/18	R_6575.D
Level 5	IC 280-621220/17	R_6574.D
Level 6	ICIS 280-621220/16	R_6573.D
Level 7	IC 280-621220/15	R_6572.D
Level 8	IC 280-621220/14	R_6571.D
Level 9	IC 280-621220/13	R_6570.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
Dichlorodifluoromethane	+++++ 0.2366	0.1572 0.2258	0.2277 0.2278	0.2831 0.2507	0.2568	Lin1	-0.03 1	0.240 5							0.9970		0.9900
Chloromethane	+++++ 0.3707	0.3363 0.3520	0.4081 0.3677	0.5295 0.3926	0.4250	Lin1	0.083 9	0.378 3			0.1000				0.9960		0.9900
Vinyl chloride	+++++ 0.3051	0.2817 0.2889	0.3075 0.2936	0.4352 0.3115	0.3531	Lin1	0.079 3	0.303 8							0.9960		0.9900
Bromomethane	+++++ 0.1793	0.2039 0.1761	0.2091 0.1821	0.2542 0.1833	0.2115	Ave		0.199 9			13.0		15.0				
Chloroethane	+++++ 0.1828	0.1843 0.1734	0.2128 0.1775	0.2474 0.1849	0.2133	Ave		0.197 1			12.9		15.0				
Dichlorofluoromethane	+++++ 0.4349	0.4228 0.4128	0.4921 0.4231	0.6007 0.4478	0.4762	Ave		0.463 8			13.3		15.0				
Trichlorofluoromethane	+++++ 0.3087	0.2684 0.3038	0.3559 0.3218	0.4051 0.3656	0.3507	Ave		0.335 0			12.8		15.0				
Ethyl ether	+++++ 0.2106	0.1929 0.2112	0.2004 0.2125	0.2307 0.2146	0.2048	Ave		0.209 7			5.3		15.0				
Acrolein	+++++ 0.0374	0.0272 0.0368	0.0333 0.0381	0.0354 0.0382	0.0351	Ave		0.035 2			10.3		15.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.1398	0.1076 0.1468	0.1279 0.1368	0.1664 0.1408	0.1431	Ave		0.138 6			12.0		15.0				
1,1-Dichloroethene	+++++ 0.1857	0.1572 0.1918	0.1822 0.1858	0.2407 0.1913	0.2090	Ave		0.193 0			12.4		30.0				
Acetone	+++++ 0.0865	0.3047 0.0834	0.1976 0.0854	0.1281 0.0829	0.1028	Lin2	0.897 6	0.082 1							0.9990		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Iodomethane	++++ 0.2674	0.2615 0.2631	0.2747 0.2505	0.3280 0.2289	0.2818	Ave		0.269 5				10.6		15.0			
Carbon disulfide	++++ 0.6868	0.7516 0.7143	0.7815 0.6865	0.9898 0.6927	0.8082	Ave		0.763 9				13.4		15.0			
Methyl acetate	++++ 0.2192	0.1564 0.2146	0.2012 0.2225	0.2007 0.2199	0.2020	Ave		0.204 6				10.5		15.0			
Allyl chloride	++++ 0.4324	0.5216 0.4376	0.4991 0.4292	0.5922 0.4293	0.4799	Ave		0.477 7				12.2		15.0			
Methylene Chloride	++++ 0.2436	0.2550 0.2474	0.2731 0.2485	0.3165 0.2442	0.2610	Ave		0.261 2				9.4		15.0			
2-Methyl-2-propanol	++++ 0.0240	0.0169 0.0246	0.0202 0.0258	0.0201 0.0249	0.0227	Ave		0.022 4				13.7		15.0			
Acrylonitrile	++++ 0.1059	0.0777 0.1053	0.0957 0.1084	0.0995 0.1097	0.1010	Ave		0.100 4				10.3		15.0			
Methyl tert-butyl ether	++++ 0.6540	0.5045 0.6683	0.5697 0.6814	0.6641 0.7029	0.6299	Ave		0.634 3				10.4		15.0			
trans-1,2-Dichloroethene	++++ 0.2150	0.2117 0.2217	0.2133 0.2152	0.2982 0.2233	0.2406	Ave		0.229 9				12.7		15.0			
Hexane	++++ 1.3313	0.9272 1.3890	1.1492 1.3474	1.4639 1.4103	1.3768	Ave		1.299 4				13.6		15.0			
Vinyl acetate	++++ 0.5494	0.3111 0.5484	0.3510 0.5681	0.4837 0.6172	0.4749	Lin2	-0.55 9	0.552 5							0.9920		0.9900
1,1-Dichloroethane	++++ 0.4617	0.4461 0.4671	0.4496 0.4613	0.5966 0.4787	0.4937	Ave		0.481 8		0.1000		10.1		15.0			
2-Butanone (MEK)	++++ 0.1374	0.1125 0.1333	0.1141 0.1386	0.1150 0.1397	0.1138	Ave		0.125 6				10.1		15.0			
cis-1,2-Dichloroethene	++++ 0.2467	0.2222 0.2482	0.2483 0.2474	0.3057 0.2532	0.2543	Ave		0.253 2				9.3		15.0			
2,2-Dichloropropane	++++ 0.3372	0.2435 0.3497	0.3117 0.3466	0.4144 0.3636	0.3557	Ave		0.340 3				14.3		15.0			
sec-Butyl Alcohol	++++ 0.0230	0.0118 0.0235	0.0164 0.0245	0.0177 0.0242	0.0203	Lin2	-0.28 9	0.023 0							0.9940		0.9900
Chlorobromomethane	++++ 0.1082	0.1044 0.1064	0.1013 0.1044	0.1175 0.1027	0.1071	Ave		0.106 5				4.7		15.0			
Tetrahydrofuran	++++ 0.0909	0.0606 0.0901	0.0700 0.0915	0.0752 0.0941	0.0833	Ave		0.082 0				14.8		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Chloroform	+++++ 0.4169	0.3808 0.4162	0.4157 0.4137	0.5230 0.4232	0.4281	Ave		0.427 2				9.6		30.0			
1,1,1-Trichloroethane	+++++ 0.3220	0.2717 0.3342	0.3077 0.3243	0.4362 0.3310	0.3505	Ave		0.334 7				14.1		15.0			
Cyclohexane	+++++ 0.4140	0.3002 0.4505	0.3804 0.4246	0.4832 0.4482	0.4357	Ave		0.417 1				13.4		15.0			
1,1-Dichloropropene	+++++ 0.3310	0.2754 0.3489	0.2998 0.3326	0.4186 0.3509	0.3480	Ave		0.338 2				12.4		15.0			
Carbon tetrachloride	+++++ 0.2762	0.2322 0.2944	0.2706 0.2800	0.3418 0.2990	0.2961	Ave		0.286 3				10.8		15.0			
Isobutyl alcohol	+++++ 0.0099	0.0066 0.0101	0.0064 0.0101	0.0080 0.0105	0.0087	Lin2	-0.09 9	0.009 7							0.9900		0.9900
Benzene	+++++ 0.9705	0.8546 0.9878	0.9329 0.9808	1.2515 0.9999	1.0302	Ave		1.001 0				11.4		15.0			
1,2-Dichloroethane	+++++ 0.3391	0.3318 0.3372	0.3235 0.3419	0.3788 0.3503	0.3398	Ave		0.342 8				4.8		15.0			
n-Heptane	+++++ 0.2950	0.2334 0.3193	0.2709 0.3165	0.3080 0.3522	0.2880	Ave		0.297 9				11.9		15.0			
Trichloroethene	+++++ 0.9230	0.7658 0.9344	0.9864 0.9134	1.2614 0.8919	1.0419	Ave		0.964 8				14.9		15.0			
2-Pentanone	+++++ 0.2064	0.1082 0.2078	0.1341 0.2159	0.1637 0.2183	0.1733	Lin2	-0.34 6	0.203 4							0.9930		0.9900
Methylcyclohexane	+++++ 0.2998	0.2165 0.3240	0.2588 0.3113	0.3481 0.3378	0.3083	Ave		0.300 6				14.4		15.0			
1,2-Dichloropropane	+++++ 0.2760	0.2318 0.2824	0.2539 0.2850	0.3208 0.2945	0.2879	Ave		0.279 1				9.6		30.0			
1,4-Dioxane	+++++ 0.0034	0.0014 0.0033	0.0029 0.0035	0.0033 0.0032	0.0035	Lin2	-0.03 8	0.003 5							0.9940		0.9900
Dibromomethane	+++++ 0.1487	0.1316 0.1470	0.1531 0.1503	0.1661 0.1540	0.1497	Ave		0.150 1				6.3		15.0			
Dichlorobromomethane	+++++ 0.3296	0.2830 0.3340	0.3018 0.3381	0.3756 0.3413	0.3222	Ave		0.328 2				8.4		15.0			
2-Chloroethyl vinyl ether	+++++ 0.1695	0.0931 0.1728	0.1237 0.1760	0.1433 0.1778	0.1427	Lin2	-0.08 1	0.168 5							0.9960		0.9900
cis-1,3-Dichloropropene	+++++ 1.7482	1.3018 1.6861	1.4888 1.7240	1.8345 1.7312	1.6464	Ave		1.645 1				10.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
4-Methyl-2-pentanone (MIBK)	++++ 0.2850	0.1859 0.2845	0.2186 0.2973	0.2474 0.3022	0.2493	Lin2	-0.43 4	0.283 8							0.9960		0.9900
Toluene	++++ 0.9983	0.9021 1.0198	0.9938 1.0097	1.2703 1.0484	1.0481	Ave		1.036 3				10.1		30.0			
trans-1,3-Dichloropropene	++++ 0.3868	0.2995 0.3887	0.2993 0.3976	0.3806 0.4196	0.3590	Ave		0.366 4				12.2		15.0			
Ethyl methacrylate	++++ 1.3422	0.6606 1.2894	0.8692 1.3195	1.0526 1.3430	1.1415	Lin2	-0.68 6	1.285 8							0.9960		0.9900
1,1,2-Trichloroethane	++++ 0.2096	0.1738 0.2098	0.1952 0.2127	0.2210 0.2131	0.2042	Ave		0.204 9				7.1		15.0			
Tetrachloroethene	++++ 0.6523	0.5488 0.6530	0.6209 0.6384	0.8174 0.6467	0.6813	Ave		0.657 4				11.5		15.0			
1,3-Dichloropropane	++++ 1.6290	1.3241 1.5867	1.4201 1.6042	1.7335 1.6186	1.5532	Ave		1.558 7				8.3		15.0			
2-Hexanone	++++ 0.7928	0.4651 0.7655	0.4908 0.8071	0.6280 0.8100	0.6666	Lin2	-1.43 1	0.760 9							0.9920		0.9900
Chlorodibromomethane	++++ 0.9551	0.7953 0.9301	0.9041 0.9483	1.0046 0.9543	0.9427	Ave		0.929 3				6.6		15.0			
1,2-Dibromoethane	++++ 0.8822	0.6743 0.8630	0.8811 0.8862	0.8667 0.8753	0.8405	Ave		0.846 2				8.4		15.0			
1-Chlorohexane	++++ 1.2310	1.1568 1.2724	1.2397 1.2381	1.4270 1.2823	1.2110	Ave		1.257 3				6.3		15.0			
Chlorobenzene	++++ 2.5497	2.4585 2.5207	2.4957 2.5443	3.1509 2.5643	2.6419	Ave		2.615 7		0.3000		8.5		15.0			
1,1,1,2-Tetrachloroethane	++++ 0.8883	0.7821 0.8802	0.8060 0.8968	1.0017 0.9183	0.8920	Ave		0.883 2				7.6		15.0			
Ethylbenzene	++++ 1.3604	1.1193 1.3787	1.2624 1.3858	1.6857 1.4397	1.4179	Ave		1.381 3				11.6		30.0			
m-Xylene & p-Xylene	++++ 1.6745	1.3554 1.6859	1.5383 1.6755	2.0310 1.7103	1.7344	Ave		1.675 7				11.3		15.0			
o-Xylene	++++ 1.6818	1.2362 1.6877	1.3671 1.6927	1.8902 1.7549	1.6610	Ave		1.621 5				13.1		15.0			
Styrene	++++ 2.8407	1.9201 2.8322	2.2749 2.8878	3.0159 2.9962	2.7376	Ave		2.688 2				14.4		15.0			
Bromoform	++++ 0.6423	0.5044 0.6216	0.5677 0.6277	0.6162 0.6378	0.5923	Ave		0.601 2		0.1000		7.7		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220
SDG No.: _____
Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Isopropylbenzene	++++ 2.5705	1.8934 2.6444	2.2643 2.6014	3.0608 2.5852	2.6775	Ave		2.537 2				13.3		15.0			
Cyclohexanone	++++ 0.0576	0.0370 0.0556	0.0398 0.0595	0.0467 0.0514	0.0582	Lin2	-0.65 1	0.055 7							0.9930		0.9900
1,1,2,2-Tetrachloroethane	++++ 0.7655	0.6557 0.7608	0.7407 0.7610	0.8055 0.7180	0.7508	Ave		0.744 8			0.3000	5.9		15.0			
Bromobenzene	++++ 0.6326	0.5754 0.6372	0.6207 0.6395	0.7240 0.6221	0.6303	Ave		0.635 2				6.5		15.0			
trans-1,4-Dichloro-2-butene	++++ 0.2419	0.1777 0.2440	0.1929 0.2559	0.2194 0.2436	0.2271	Ave		0.225 3				12.2		15.0			
1,2,3-Trichloropropane	++++ 0.2049	0.1191 0.2010	0.1839 0.2052	0.2071 0.1953	0.2008	Lin2	-0.07 8	0.207 7							0.9970		0.9900
N-Propylbenzene	++++ 0.7022	0.5485 0.7257	0.6278 0.7090	0.8517 0.6907	0.7472	Ave		0.700 3				12.6		15.0			
2-Chlorotoluene	++++ 0.6217	0.5628 0.6332	0.5761 0.6249	0.7507 0.6114	0.6602	Ave		0.630 1				9.2		15.0			
1,3,5-Trimethylbenzene	++++ 2.1431	1.5983 2.1871	1.8030 2.1584	2.5875 2.1581	2.2256	Ave		2.107 6				14.0		15.0			
4-Chlorotoluene	++++ 0.6540	0.5197 0.6611	0.6160 0.6617	0.7837 0.6462	0.6838	Ave		0.653 3				11.2		15.0			
tert-Butylbenzene	++++ 1.7371	1.3492 1.7958	1.5071 1.7526	2.0700 1.7524	1.8023	Ave		1.720 8				12.4		15.0			
1,2,4-Trimethylbenzene	++++ 2.2414	1.5743 2.2728	1.7568 2.2739	2.6145 2.2748	2.2794	Lin2	-0.78 0	2.341 2							0.9920		0.9900
sec-Butylbenzene	++++ 0.4934	0.3465 0.5090	0.4112 0.5014	0.5651 0.5059	0.5453	Ave		0.484 7				14.8		15.0			
1,3-Dichlorobenzene	++++ 1.1693	1.1420 1.1785	1.1389 1.1883	1.3891 1.1853	1.2298	Ave		1.202 7				6.7		15.0			
4-Isopropyltoluene	++++ 2.1794	1.4271 2.2674	1.7257 2.2400	2.5277 2.2884	2.2791	Lin2	-0.89 5	2.323 5							0.9930		0.9900
1,4-Dichlorobenzene	++++ 1.1978	1.3050 1.2298	1.2776 1.2227	1.4480 1.2204	1.2600	Ave		1.270 2				6.3		15.0			
n-Butylbenzene	++++ 2.0515	1.1765 2.1229	1.5718 2.0957	2.2572 2.1769	2.0592	Lin2	-0.98 8	2.167 2							0.9960		0.9900
1,2-Dichlorobenzene	++++ 1.1359	1.0122 1.1306	1.0287 1.1427	1.2782 1.1347	1.1654	Ave		1.128 6				7.3		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm)) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.1237	0.0825 0.1204	0.1224 0.1307	0.1168 0.1066	0.1340	Ave		0.117 2				13.9		15.0			
1,2,4-Trichlorobenzene	+++++ 0.5721	0.5078 0.5674	0.5041 0.5939	0.6067 0.5286	0.6056	Ave		0.560 8				7.5		15.0			
Hexachlorobutadiene	+++++ 0.2416	0.2585 0.2476	0.2859 0.2504	0.3243 0.2328	0.2738	Ave		0.264 4				11.2		15.0			
Naphthalene	+++++ 1.5008	1.1684 1.4671	1.3022 1.6204	1.4221 +++++	1.8722	Lin1	-0.30 4	1.559 0							0.9960		0.9900
1,2,3-Trichlorobenzene	+++++ 0.4152	0.5211 0.3981	0.5479 0.4594	0.5439 +++++	0.7283	Qua	1.360 6	0.313 0	0.0012380						0.9920		0.9900
Dibromofluoromethane (Surr)	+++++ 0.2606	0.2699 0.2615	0.2655 0.2586	0.2636 0.2597	0.2625	Ave		0.262 7				1.4		15.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3105	0.3099 0.3128	0.3209 0.3113	0.3163 0.3157	0.3151	Ave		0.314 1				1.2		15.0			
Toluene-d8 (Surr)	+++++ 4.3490	4.3658 4.2416	4.3553 4.2369	4.3601 4.1757	4.3682	Ave		4.306 6				1.8		15.0			
4-Bromofluorobenzene (Surr)	+++++ 0.9609	0.9965 0.9680	0.9842 0.9649	0.9729 0.9182	0.9793	Ave		0.968 1				2.4		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 280-621220/21	R_6578.D
Level 2	IC 280-621220/20	R_6577.D
Level 3	IC 280-621220/19	R_6576.D
Level 4	IC 280-621220/18	R_6575.D
Level 5	IC 280-621220/17	R_6574.D
Level 6	ICIS 280-621220/16	R_6573.D
Level 7	IC 280-621220/15	R_6572.D
Level 8	IC 280-621220/14	R_6571.D
Level 9	IC 280-621220/13	R_6570.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Dichlorodifluoromethane	FB	Lin1	+++++ 548334	6696 766217	19853 1031654	61186 2215600	113811	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloromethane	FB	Lin1	+++++ 859120	14329 1194541	35575 1664980	114452 3470624	188369	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl chloride	FB	Lin1	+++++ 707184	12004 980486	26808 1329538	94067 2753875	156488	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromomethane	FB	Ave	+++++ 415621	8686 597574	18232 824738	54940 1620049	93726	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Chloroethane	FB	Ave	+++++ 423539	7852 588652	18555 803546	53484 1634653	94553	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorofluoromethane	FB	Ave	+++++ 1007920	18012 1400941	42905 1915693	129853 3958551	211074	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichlorofluoromethane	FB	Ave	+++++ 715490	11436 1031109	31031 1457036	87559 3231552	155446	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl ether	FB	Ave	+++++ 488077	8219 716676	17467 962214	49874 1897322	90791	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acrolein	FB	Ave	+++++ 855254	11446 1233556	28663 1702729	75486 3333260	153444	+++++ 494	9.88 741	19.8 988	49.4 1975	98.8
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 323952	4583 498080	11153 619288	35957 1244660	63442	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloroethene	FB	Ave	+++++ 430475	6698 650818	15881 841357	52020 1690695	92629	+++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Acetone	FB	Lin2	+++++ 802061	51936 1131804	68921 1546410	110795 2929595	182170	+++++ 200	4.00 300	8.00 400	20.0 800	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Iodomethane	FB	Ave	++++ 619730	11142 892854	23950 1134380	70900 2023694	124898	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon disulfide	FB	Ave	++++ 1591721	32024 2424170	68130 3108561	213941 6122985	358214	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methyl acetate	FB	Ave	++++ 1016078	13331 1456924	35079 2014503	86749 3888163	179016	++++ 100	2.00 150	4.00 200	10.0 400	20.0
Allyl chloride	FB	Ave	++++ 1002023	22225 1485205	43513 1943342	128009 3795127	212717	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Methylene Chloride	FB	Ave	++++ 564598	10866 839681	23805 1125025	68405 2158809	115656	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Methyl-2-propanol	FB	Ave	++++ 556892	7203 835074	17585 1169599	43391 2199957	100677	++++ 500	10.0 750	20.0 1000	50.0 2000	100
Acrylonitrile	FB	Ave	++++ 2453164	33096 3572836	83404 4909182	215091 9700712	447455	++++ 500	10.0 750	20.0 1000	50.0 2000	100
Methyl tert-butyl ether	FB	Ave	++++ 1515605	21493 2268293	49670 3085246	143551 6213270	279164	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,2-Dichloroethene	FB	Ave	++++ 498341	9021 752281	18595 974383	64452 1973593	106642	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexane	CBNZ d5	Ave	++++ 760611	9556 1194899	24488 1538153	77719 3240132	148854	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Vinyl acetate	FB	Lin2	++++ 2546613	26510 3722513	61193 5144856	209098 10910588	420980	++++ 100	2.00 150	4.00 200	10.0 400	20.0
1,1-Dichloroethane	FB	Ave	++++ 1070040	19006 1585426	39196 2088576	128955 4231248	218815	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Butanone (MEK)	FB	Ave	++++ 1274194	19181 1809265	39792 2510535	99435 4939144	201803	++++ 200	4.00 300	8.00 400	20.0 800	40.0
cis-1,2-Dichloroethene	FB	Ave	++++ 571830	9468 842235	21643 1120130	66080 2237903	112706	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2,2-Dichloropropane	FB	Ave	++++ 781566	10373 1186989	27174 1569220	89579 3214207	157647	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butyl Alcohol	FB	Lin2	++++ 1279159	12099 1911783	34401 2663600	91744 5125962	216271	++++ 1200	24.0 1800	48.0 2400	120 4800	240
Chlorobromomethane	FB	Ave	++++ 250866	4450 361127	8831 472520	25398 907859	47468	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrahydrofuran	FB	Ave	++++	5160	12203	32518	73805	++++	2.00	4.00	10.0	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
			421494	611656	828860	1663525		100	150	200	400	
Chloroform	FB	Ave	++++ 966168	16225 1412512	36242 1873112	113049 3740472	189739	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,1-Trichloroethane	FB	Ave	++++ 746314	11578 1134362	26827 1468330	94276 2925532	155362	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexane	FB	Ave	++++ 959529	12789 1528914	33163 1922460	104440 3961872	193127	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1-Dichloropropene	FB	Ave	++++ 767187	11732 1184180	26135 1505976	90479 3102133	154249	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Carbon tetrachloride	FB	Ave	++++ 640170	9895 999173	23587 1267862	73876 2643277	131213	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isobutyl alcohol	FB	Lin2	++++ 575910	7066 857785	13964 1142966	42989 2311616	96074	++++ 1250	25.0 1875	50.0 2500	125 5000	250
Benzene	FB	Ave	++++ 2249126	36412 3352499	81329 4440913	270519 8838474	456571	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloroethane	FB	Ave	++++ 785810	14138 1144315	28202 1548263	81888 3096182	150604	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Heptane	FB	Ave	++++ 683710	9946 1083746	23619 1433082	66579 3113623	127626	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Trichloroethene	CBNZ d5	Ave	++++ 527324	7893 803857	21019 1042765	66968 2049227	112641	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Pentanone	FB	Lin2	++++ 1530656	14749 2257078	37402 3128162	113217 6174920	245765	++++ 160	3.20 240	6.40 320	16.0 640	32.0
Methylcyclohexane	FB	Ave	++++ 694844	9224 1099640	22565 1409440	75253 2985935	136641	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichloropropane	FB	Ave	++++ 639681	9878 958355	22131 1290602	69351 2603464	127611	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dioxane	FB	Lin2	++++ 158279	1175 226630	5021 320839	14449 557091	31266	++++ 1000	20.0 1500	40.0 2000	100 4000	200
Dibromomethane	FB	Ave	++++ 344598	5609 498786	13348 680405	35897 1361023	66367	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Dichlorobromomethane	FB	Ave	++++ 763899	12059 1133538	26308 1530828	81197 3016993	142796	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chloroethyl vinyl ether	FB	Lin2	++++ 392791	3965 586331	10785 796708	30964 1571450	63225	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
cis-1,3-Dichloropropene	CBNZ d5	Ave	++++ 998764	13417 1450482	31725 1968123	97399 3977432	178003	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Methyl-2-pentanone (MIBK)	FB	Lin2	++++ 2641791	31680 3862274	76213 5383926	213872 10684572	441994	++++ 200	4.00 300	8.00 400	20.0 800	40.0
Toluene	FB	Ave	++++ 2313578	38437 3461200	86643 4571984	274576 9267499	464525	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,3-Dichloropropene	FB	Ave	++++ 896343	12761 1319067	26091 1800512	82262 3708829	159104	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethyl methacrylate	CBNZ d5	Lin2	++++ 766834	6808 1109241	18523 1506316	55885 3085420	123415	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,1,2-Trichloroethane	FB	Ave	++++ 485834	7404 711925	17015 963287	47759 1883866	90498	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Tetrachloroethene	CBNZ d5	Ave	++++ 372700	5656 561783	13231 728834	43399 1485811	73658	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichloropropane	CBNZ d5	Ave	++++ 930686	13647 1365020	30261 1831349	92034 3718727	167922	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Hexanone	CBNZ d5	Lin2	++++ 1811684	19174 2634190	41835 3685378	133361 7443497	288294	++++ 200	4.00 300	8.00 400	20.0 800	40.0
Chlorodibromomethane	CBNZ d5	Ave	++++ 545680	8197 800156	19266 1082615	53337 2192574	101920	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dibromoethane	CBNZ d5	Ave	++++ 504040	6950 742397	18776 1011739	46017 2011062	90874	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1-Chlorohexane	CBNZ d5	Ave	++++ 562640	9538 875683	21134 1130721	60610 2356797	104743	++++ 40.0	0.800 60.0	1.60 80.0	4.00 160	8.00
Chlorobenzene	CBNZ d5	Ave	++++ 1456681	25339 2168496	53183 2904541	167285 5891452	285626	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	++++ 507502	8061 757229	17176 1023755	53181 2109722	96439	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Ethylbenzene	CBNZ d5	Ave	++++ 777251	11536 1186090	26902 1582081	89495 3307690	153297	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
m-Xylene & p-Xylene	CBNZ d5	Ave	++++ 956654	13969 1450363	32780 1912768	107828 3929461	187510	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
o-Xylene	CBNZ d5	Ave	++++ 960855	12741 1451896	29132 1932392	100357 4031894	179582	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Styrene	CBNZ d5	Ave	++++ 1622960	19790 2436423	48478 3296701	160118 6883608	295970	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromoform	CBNZ d5	Ave	++++ 366937	5199 534780	12098 716609	32713 1465246	64033	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Isopropylbenzene	DCBd 4	Ave	++++ 2358022	29910 3579071	75615 4731687	257514 9839927	456379	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Cyclohexanone	CBNZ d5	Lin2	++++ 987745	11429 1435329	25458 2036537	74435 3539601	188883	++++ 1500	30.0 2250	60.0 3000	150 6000	300
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	++++ 702218	10358 1029723	24736 1384139	67770 2732989	127980	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Bromobenzene	DCBd 4	Ave	++++ 580341	9089 862413	20729 1163113	60912 2367884	107428	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	++++ 221952	2807 330245	6441 465433	18458 927271	38713	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,3-Trichloropropane	DCBd 4	Lin2	++++ 187920	1881 272092	6141 373197	17422 743218	34230	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
N-Propylbenzene	DCBd 4	Ave	++++ 644130	8665 982181	20966 1289540	71656 2628869	127369	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
2-Chlorotoluene	DCBd 4	Ave	++++ 570282	8891 856999	19237 1136637	63157 2327205	112532	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	++++ 1965960	25247 2960232	60209 3925819	217693 8214196	379363	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Chlorotoluene	DCBd 4	Ave	++++ 599944	8209 894813	20572 1203492	65936 2459537	116560	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
tert-Butylbenzene	DCBd 4	Ave	++++ 1593556	21313 2430544	50328 3187698	174154 6670099	307203	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trimethylbenzene	DCBd 4	Lin2	++++ 2056135	24869 3076103	58668 4135989	219968 8658379	388533	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
sec-Butylbenzene	DCBd 4	Ave	++++ 452586	5474 688939	13731 911962	47548 1925732	92941	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	++++ 1072692	18040 1595004	38033 2161403	116868 4511704	209616	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
4-Isopropyltoluene	DCBd 4	Lin2	++++ 1999249	22544 3068901	57628 4074345	212668 8710257	388476	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,4-Dichlorobenzene	DCBd 4	Ave	++++ 1098799	20615 1664489	42663 2223906	121829 4645291	214777	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
n-Butylbenzene	DCBd 4	Lin2	++++ 1881966	18584 2873279	52488 3811906	189903 8285895	350991	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	++++ 1042034	15990 1530264	34352 2078418	107544 4319014	198648	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Denver Job No.: 280-179478-1 Analy Batch No.: 621220

SDG No.: _____

Instrument ID: VMS_R1 GC Column: DB-624 (60. ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/30/2023 16:32 Calibration End Date: 07/30/2023 19:19 Calibration ID: 82942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 113504	1304 163021	4088 237642	9831 405666	22842	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	++++ 524831	8022 767923	16835 1080141	51045 2011893	103227	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Hexachlorobutadiene	DCBd 4	Ave	++++ 221636	4083 335148	9548 455388	27285 886171	46668	++++ 50.0	1.00 75.0	2.00 100	5.00 200	10.0
Naphthalene	DCBd 4	Lin1	++++ 1376775	18457 1985671	43486 2947363	119645 ++++	319121	++++ 50.0	1.00 75.0	2.00 100	5.00 ++++	10.0
1,2,3-Trichlorobenzene	DCBd 4	Qua	++++ 380888	8231 538767	18298 835581	45763 ++++	124142	++++ 50.0	1.00 75.0	2.00 100	5.00 ++++	10.0
Dibromofluoromethane (Surr)	FB	Ave	++++ 603951	574971 591676	578558 585411	569705 573951	581727	++++ 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	++++ 719542	660159 707774	699506 704789	683676 697754	698218	++++ 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	++++ 2484696	2249817 2432638	2320241 2418443	2314856 2398402	2361298	++++ 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0
4-Bromofluorobenzene (Surr)	DCBd 4	Ave	++++ 881473	787072 873420	821693 877534	818556 873694	834644	++++ 50.0	50.0 50.0	50.0 50.0	50.0 50.0	50.0

Curve Type Legend

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6570.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 30-Jul-2023 16:32:30 ALS Bottle#: 3 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 200
 Misc. Info.: 280-0124001-013
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:50:52 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:45:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2209843	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	574369	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	951559	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	573951	50.0	49.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.579	-0.004	0	697754	50.0	50.3	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2398402	50.0	48.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	85	873694	50.0	47.4	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	2215600	200.0	208.6	
10 Chloromethane	50	1.715	1.715	0.000	99	3470624	200.0	207.3	
11 Vinyl chloride	62	1.801	1.805	-0.004	98	2753875	200.0	204.9	
13 Bromomethane	94	2.056	2.071	-0.015	91	1620049	200.0	183.3	
14 Chloroethane	64	2.150	2.157	-0.007	100	1634653	200.0	187.7	
15 Dichlorofluoromethane	67	2.311	2.315	-0.004	97	3958551	200.0	193.1	
16 Trichlorofluoromethane	101	2.341	2.345	-0.004	98	3231552	200.0	218.3	
18 Ethyl ether	59	2.547	2.547	0.000	96	1897322	200.0	204.7	
20 Acrolein	56	2.648	2.652	-0.004	100	3333260	1975.0	2144.3	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.723	2.723	0.000	97	1244660	200.0	203.1	
22 1,1-Dichloroethene	96	2.723	2.727	-0.004	94	1690695	200.0	198.3	
23 Acetone	43	2.746	2.746	0.000	99	2929595	800.0	796.6	
25 Iodomethane	142	2.843	2.843	0.000	99	2023694	200.0	169.9	
26 Carbon disulfide	76	2.900	2.903	-0.003	100	6122985	200.0	181.4	
28 Methyl acetate	43	2.963	2.967	-0.004	99	3888163	400.0	430.1	
29 3-Chloro-1-propene	41	2.982	2.986	-0.004	91	3795127	200.0	179.8	
30 Methylene Chloride	84	3.076	3.076	0.000	99	2158809	200.0	187.0	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	97	2199957	2000.0	2221.9	
32 Acrylonitrile	53	3.230	3.233	-0.003	98	9700712	2000.0	2186.4	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	6213270	200.0	221.6	
34 trans-1,2-Dichloroethene	96	3.267	3.271	-0.004	94	1973593	200.0	194.3	
35 Hexane	57	3.454	3.454	0.000	97	3240132	200.0	217.1	
37 Vinyl acetate	43	3.556	3.559	-0.003	97	10910588	400.0	447.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	4231248	200.0	198.7	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	4939144	800.0	890.0	
45 cis-1,2-Dichloroethene	96	3.972	3.975	-0.003	86	2237903	200.0	199.9	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	90	3214207	200.0	213.7	
48 sec-Butyl Alcohol	45	4.065	4.065	0.000	100	5125962	4800.0	5062.9	
50 Chlorobromomethane	128	4.144	4.148	-0.004	92	907859	200.0	192.9	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	92	1663525	400.0	459.2	
52 Chloroform	83	4.204	4.208	-0.004	95	3740472	200.0	198.1	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	97	2925532	200.0	197.8	
54 Cyclohexane	56	4.399	4.403	-0.004	95	3961872	200.0	214.9	
55 1,1-Dichloropropene	75	4.452	4.455	-0.003	96	3102133	200.0	207.6	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	98	2643277	200.0	208.9	
57 Isobutyl alcohol	41	4.478	4.478	0.000	95	2311616	5000.0	5403.5	
58 Benzene	78	4.605	4.601	0.004	97	8838474	200.0	199.8	
59 1,2-Dichloroethane	62	4.632	4.635	-0.003	97	3096182	200.0	204.4	
63 n-Heptane	43	4.789	4.793	-0.004	97	3113623	200.0	236.5	
65 Trichloroethene	95	5.085	5.089	-0.004	97	2049227	200.0	184.9	
66 2-Pentanone	43	5.190	5.194	-0.004	98	6174920	640.0	688.5	
67 Methylcyclohexane	55	5.276	5.280	-0.004	95	2985935	200.0	224.8	
68 1,2-Dichloropropane	63	5.288	5.291	-0.003	96	2603464	200.0	211.1	
70 1,4-Dioxane	88	5.340	5.344	-0.004	99	557091	4000.0	3597.2	
71 Dibromomethane	93	5.359	5.362	-0.003	91	1361023	200.0	205.2	
72 Dichlorobromomethane	83	5.482	5.486	-0.004	98	3016993	200.0	208.0	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	1571450	200.0	211.4	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	93	3977432	200.0	210.5	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	98	10684572	800.0	853.3	
77 Toluene	91	6.112	6.112	0.000	97	9267499	200.0	202.3	
78 trans-1,3-Dichloropropene	75	6.292	6.296	-0.004	92	3708829	200.0	229.0	
79 Ethyl methacrylate	69	6.318	6.322	-0.004	93	3085420	200.0	209.4	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	1883866	200.0	208.0	
81 Tetrachloroethene	164	6.555	6.555	0.000	93	1485811	200.0	196.8	
82 1,3-Dichloropropane	76	6.607	6.611	-0.004	96	3718727	200.0	207.7	
83 2-Hexanone	43	6.633	6.633	0.000	99	7443497	800.0	853.5	
84 Chlorodibromomethane	129	6.798	6.802	-0.004	91	2192574	200.0	205.4	
86 Ethylene Dibromide	107	6.914	6.918	-0.004	99	2011062	200.0	206.9	
87 1-Chlorohexane	91	7.312	7.312	0.000	93	2356797	160.0	163.2	
88 Chlorobenzene	112	7.346	7.349	-0.003	92	5891452	200.0	196.1	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.420	0.000	95	2109722	200.0	207.9	
90 Ethylbenzene	106	7.424	7.424	0.000	99	3307690	200.0	208.5	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	3929461	200.0	204.1	
92 o-Xylene	106	7.904	7.904	0.000	97	4031894	200.0	216.5	
93 Styrene	104	7.919	7.919	0.000	95	6883608	200.0	222.9	
94 Bromoform	173	8.099	8.099	0.000	94	1465246	200.0	212.1	
95 Isopropylbenzene	105	8.241	8.241	0.000	96	9839927	200.0	203.8	
97 Cyclohexanone	55	8.339	8.339	0.000	96	3539601	6000.0	5539.3	a
98 1,1,2,2-Tetrachloroethane	83	8.534	8.534	0.000	93	2732989	200.0	192.8	
99 Bromobenzene	156	8.556	8.560	-0.004	97	2367884	200.0	195.9	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.575	-0.004	76	927271	200.0	216.2	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	85	743218	200.0	188.4	
102 N-Propylbenzene	120	8.643	8.643	0.001	99	2628869	200.0	197.2	e
103 2-Chlorotoluene	126	8.736	8.732	0.004	95	2327205	200.0	194.1	a
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	94	8214196	200.0	204.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.852	8.852	0.000	98	2459537	200.0	197.8	
106 tert-Butylbenzene	119	9.122	9.122	0.000	95	6670099	200.0	203.7	
107 1,2,4-Trimethylbenzene	105	9.182	9.182	0.000	98	8658379	200.0	194.7	
108 sec-Butylbenzene	134	9.344	9.340	0.004	95	1925732	200.0	208.8	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	97	4511704	200.0	197.1	
111 4-Isopropyltoluene	119	9.490	9.493	-0.003	97	8710257	200.0	197.4	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	4645291	200.0	192.2	
114 n-Butylbenzene	91	9.895	9.898	-0.003	99	8285895	200.0	201.4	
115 1,2-Dichlorobenzene	146	9.917	9.921	-0.004	96	4319014	200.0	201.1	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	81	405666	200.0	181.9	
118 1,2,4-Trichlorobenzene	180	11.522	11.525	-0.003	94	2011893	200.0	188.5	
119 Hexachlorobutadiene	225	11.664	11.668	-0.004	97	886171	200.0	176.1	
120 Naphthalene	128	11.788	11.791	-0.003	98	4478103	200.0	151.1	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	1012647	200.0	114.1	
S 143 1,3-Dichloropropene, Total	1				0		400.0	439.5	
S 142 Trihalomethanes, Total	1				0		800.0	823.6	
S 141 Xylenes, Total	106				0		400.0	420.6	
S 140 1,2-Dichloroethene, Total	1				0		400.0	394.2	
S 139 Total BTEX	1				0			1031.2	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

a - User Assigned ID

Reagents:

MV-MegaMainA_00092

Amount Added: 100.00

Units: uL

MV-Gas A_00160

Amount Added: 40.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6570.D

Injection Date: 30-Jul-2023 16:32:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

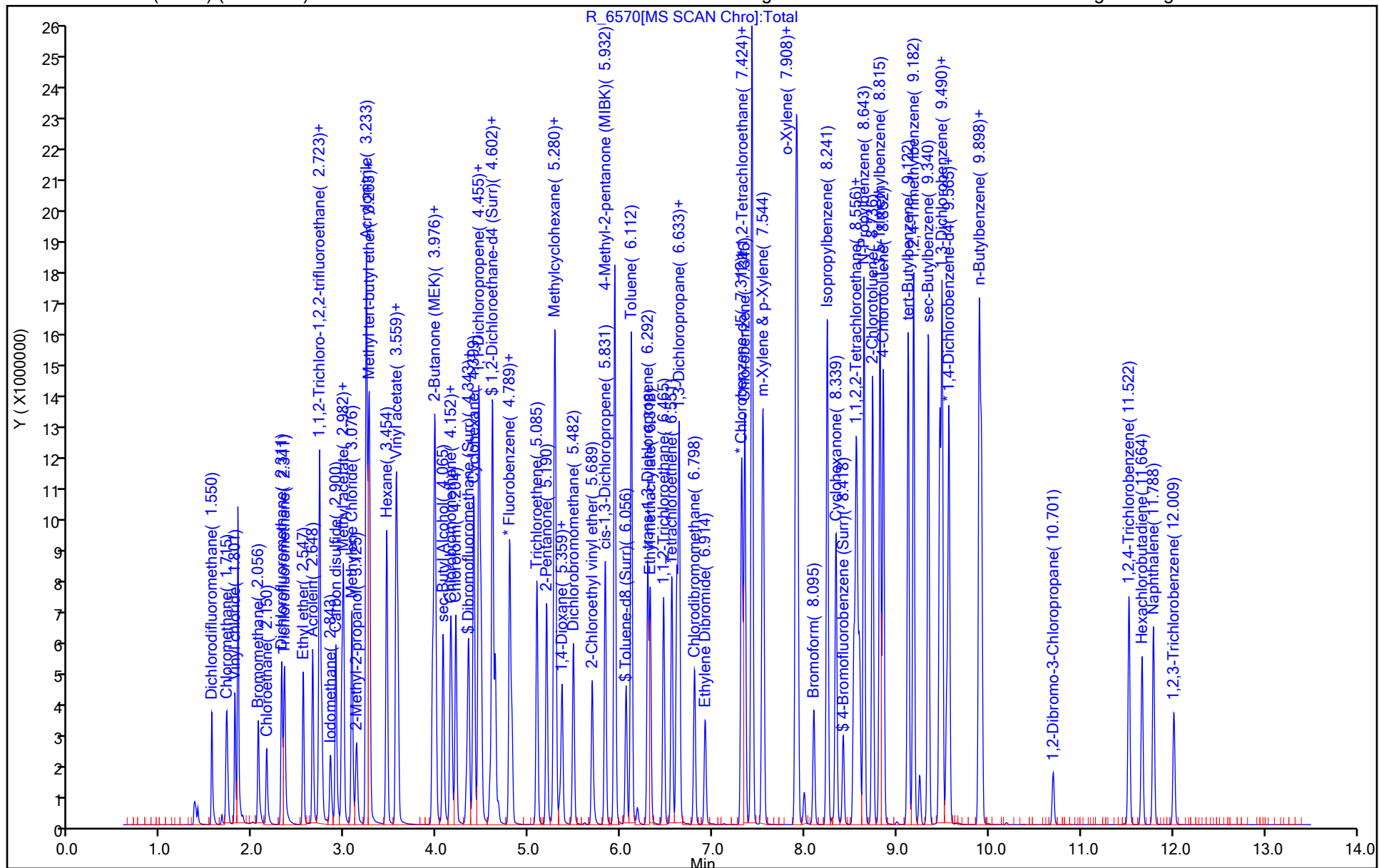
ALS Bottle#: 3

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6570.D

Injection Date: 30-Jul-2023 16:32:30

Instrument ID: VMS_R1

Lims ID: ic

Client ID:

Operator ID: bustillose

ALS Bottle#:

3

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

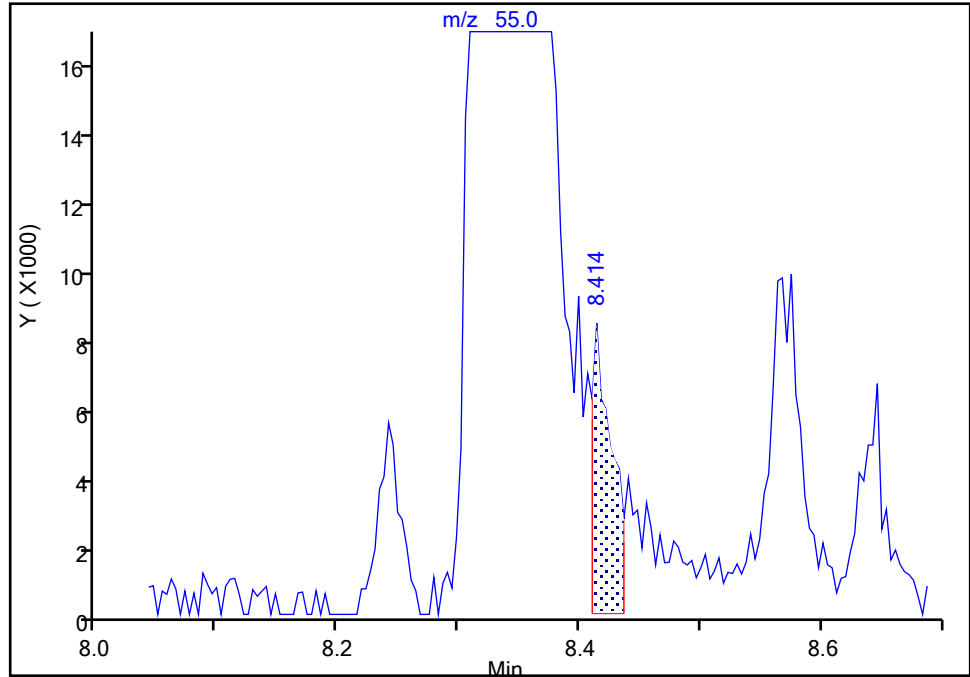
Detector: MS SCAN

97 Cyclohexanone, CAS: 108-94-1

Signal: 1

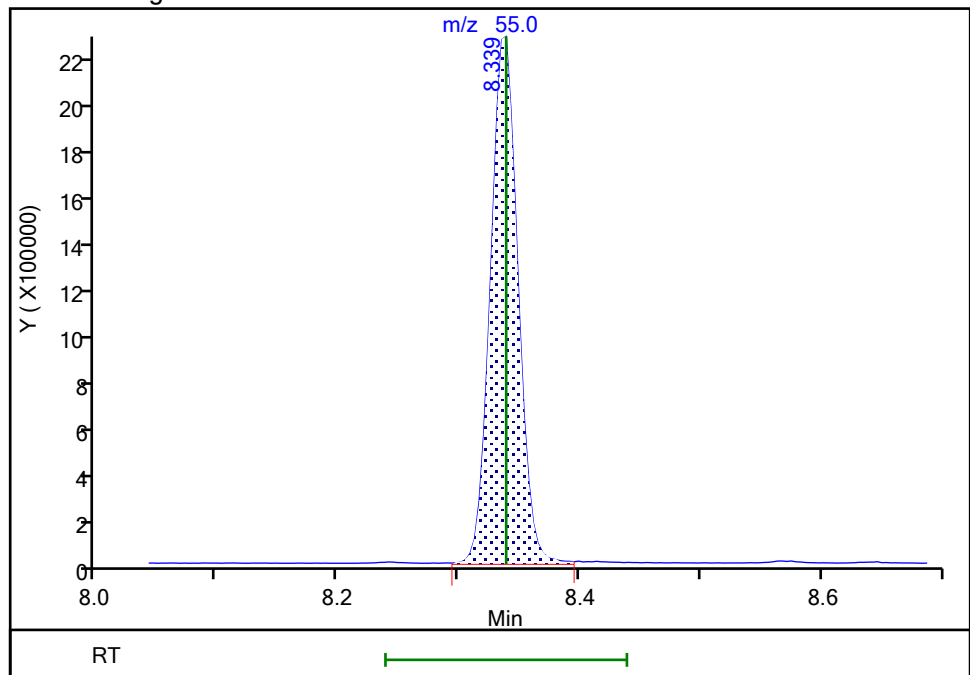
RT: 8.41
Area: 9478
Amount: 27.083125
Amount Units: ug/l

Processing Integration Results



RT: 8.34
Area: 3539601
Amount: 5539.2557
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:45:13 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver

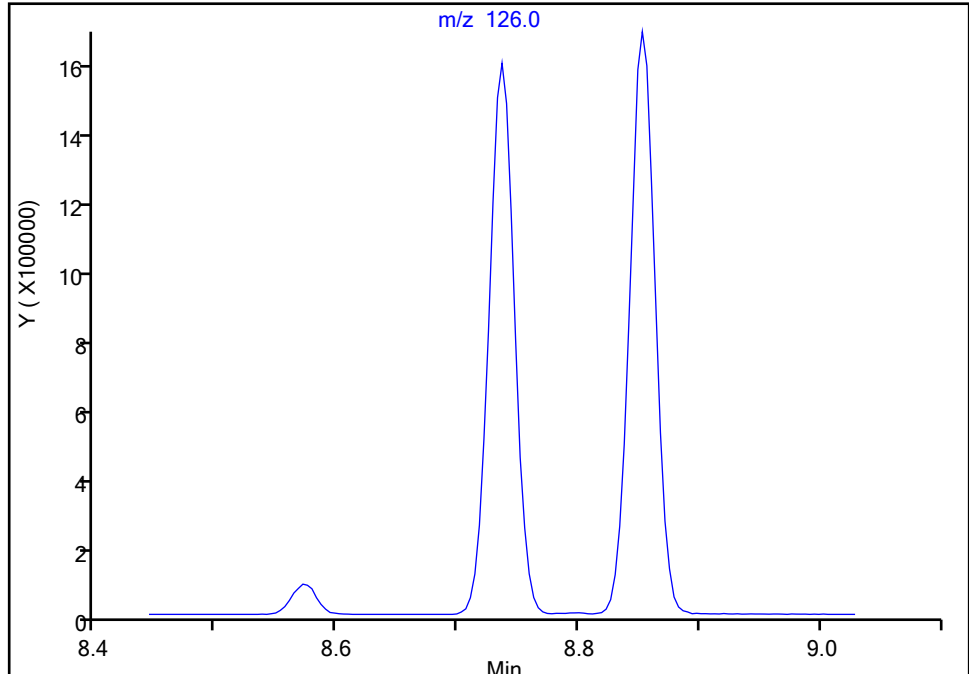
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6570.D
Injection Date: 30-Jul-2023 16:32:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 3 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

103 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

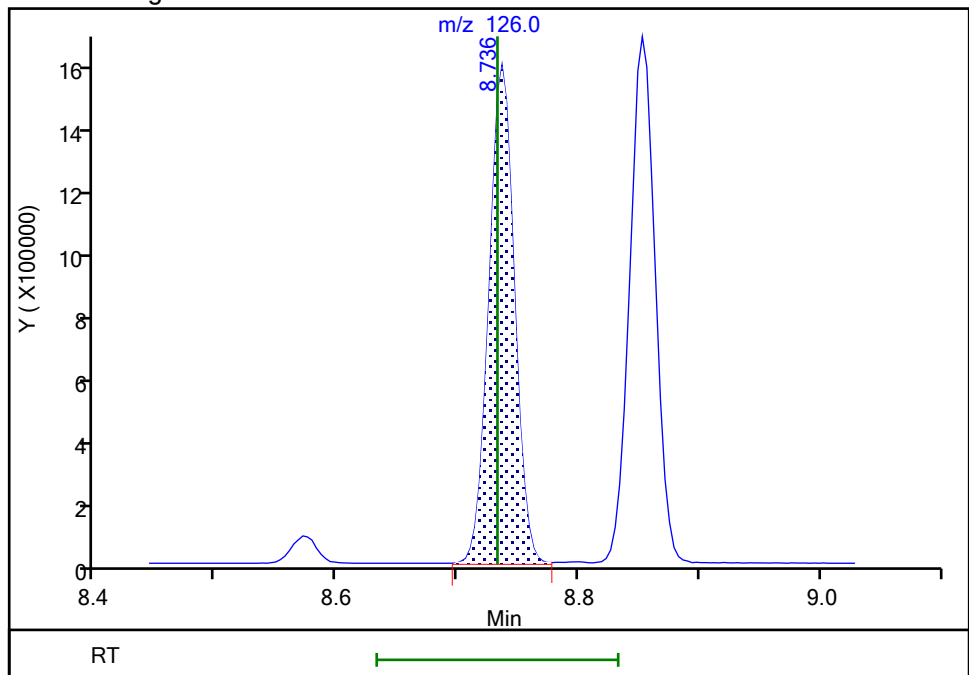
Not Detected
Expected RT: 8.73

Processing Integration Results



RT: 8.74
Area: 2327205
Amount: 194.0647
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:45:23 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6571.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 30-Jul-2023 16:53:30 ALS Bottle#: 4 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 100
 Misc. Info.: 280-0124001-014
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:50:55 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:46:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2263977	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	570801	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.538	9.542	-0.004	96	909439	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	585411	50.0	49.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.579	-0.004	0	704789	50.0	49.6	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2418443	50.0	49.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	84	877534	50.0	49.8	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	1031654	100.0	94.9	
10 Chloromethane	50	1.715	1.715	0.000	99	1664980	100.0	97.0	
11 Vinyl chloride	62	1.805	1.805	0.000	98	1329538	100.0	96.4	
13 Bromomethane	94	2.064	2.071	-0.007	91	824738	100.0	91.1	
14 Chloroethane	64	2.154	2.157	-0.003	100	803546	100.0	90.1	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	97	1915693	100.0	91.2	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	1457036	100.0	96.1	
18 Ethyl ether	59	2.547	2.547	0.000	96	962214	100.0	101.3	
20 Acrolein	56	2.648	2.652	-0.004	99	1702729	987.5	1069.2	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.723	2.723	0.000	97	619288	100.0	98.7	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	95	841357	100.0	96.3	
23 Acetone	43	2.746	2.746	0.000	99	1546410	400.0	405.1	
25 Iodomethane	142	2.843	2.843	0.000	99	1134380	100.0	93.0	
26 Carbon disulfide	76	2.900	2.903	-0.003	100	3108561	100.0	89.9	
28 Methyl acetate	43	2.967	2.967	0.000	99	2014503	200.0	217.5	
29 3-Chloro-1-propene	41	2.982	2.986	-0.004	91	1943342	100.0	89.8	
30 Methylene Chloride	84	3.076	3.076	0.000	99	1125025	100.0	95.1	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	97	1169599	1000.0	1153.0	
32 Acrylonitrile	53	3.233	3.233	0.000	98	4909182	1000.0	1080.0	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	3085246	100.0	107.4	
34 trans-1,2-Dichloroethene	96	3.267	3.271	-0.004	95	974383	100.0	93.6	
35 Hexane	57	3.454	3.454	0.000	96	1538153	100.0	103.7	
37 Vinyl acetate	43	3.556	3.559	-0.003	97	5144856	200.0	206.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	2088576	100.0	95.7	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	2510535	400.0	441.6	
45 cis-1,2-Dichloroethene	96	3.972	3.975	-0.003	85	1120130	100.0	97.7	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	90	1569220	100.0	101.8	
48 sec-Butyl Alcohol	45	4.065	4.065	0.000	100	2663600	2400.0	2574.1	
50 Chlorobromomethane	128	4.148	4.148	0.000	93	472520	100.0	98.0	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	92	828860	200.0	223.3	
52 Chloroform	83	4.204	4.208	-0.004	95	1873112	100.0	96.8	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	98	1468330	100.0	96.9	
54 Cyclohexane	56	4.399	4.403	-0.004	95	1922460	100.0	101.8	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	98	1505976	100.0	98.4	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	98	1267862	100.0	97.8	
57 Isobutyl alcohol	41	4.478	4.478	0.000	95	1142966	2500.0	2613.1	
58 Benzene	78	4.605	4.601	0.004	97	4440913	100.0	98.0	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	97	1548263	100.0	99.7	
63 n-Heptane	43	4.793	4.793	0.000	97	1433082	100.0	106.2	
65 Trichloroethene	95	5.085	5.089	-0.004	97	1042765	100.0	94.7	
66 2-Pentanone	43	5.190	5.194	-0.004	98	3128162	320.0	341.3	
67 Methylcyclohexane	55	5.276	5.280	-0.004	94	1409440	100.0	103.6	
68 1,2-Dichloropropane	63	5.288	5.291	-0.003	95	1290602	100.0	102.1	
70 1,4-Dioxane	88	5.336	5.344	-0.008	97	320839	2000.0	2026.9	
71 Dibromomethane	93	5.359	5.362	-0.003	91	680405	100.0	100.1	
72 Dichlorobromomethane	83	5.482	5.486	-0.004	98	1530828	100.0	103.0	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	796708	100.0	104.9	
75 cis-1,3-Dichloropropene	75	5.827	5.831	-0.004	93	1968123	100.0	104.8	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	99	5383926	400.0	420.5	
77 Toluene	91	6.112	6.112	0.000	97	4571984	100.0	97.4	
78 trans-1,3-Dichloropropene	75	6.292	6.296	-0.004	92	1800512	100.0	108.5	
79 Ethyl methacrylate	69	6.318	6.322	-0.004	92	1506316	100.0	103.1	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	963287	100.0	103.8	
81 Tetrachloroethene	164	6.555	6.555	0.000	95	728834	100.0	97.1	
82 1,3-Dichloropropane	76	6.607	6.611	-0.004	94	1831349	100.0	102.9	
83 2-Hexanone	43	6.633	6.633	0.000	98	3685378	400.0	426.1	
84 Chlorodibromomethane	129	6.802	6.802	0.000	91	1082615	100.0	102.0	
86 Ethylene Dibromide	107	6.914	6.918	-0.004	98	1011739	100.0	104.7	
87 1-Chlorohexane	91	7.312	7.312	0.000	95	1130721	80.0	78.8	
88 Chlorobenzene	112	7.346	7.349	-0.003	93	2904541	100.0	97.3	
89 1,1,1,2-Tetrachloroethane	131	7.420	7.420	0.000	95	1023755	100.0	101.5	
90 Ethylbenzene	106	7.424	7.424	0.000	99	1582081	100.0	100.3	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	1912768	100.0	100.0	
92 o-Xylene	106	7.900	7.904	-0.004	97	1932392	100.0	104.4	
93 Styrene	104	7.919	7.919	0.000	95	3296701	100.0	107.4	
94 Bromoform	173	8.095	8.099	-0.004	94	716609	100.0	104.4	
95 Isopropylbenzene	105	8.241	8.241	0.000	96	4731687	100.0	102.5	
97 Cyclohexanone	55	8.339	8.339	0.000	96	2036537	3000.0	3211.9	a
98 1,1,2,2-Tetrachloroethane	83	8.530	8.534	-0.004	94	1384139	100.0	102.2	
99 Bromobenzene	156	8.556	8.560	-0.004	97	1163113	100.0	100.7	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.575	-0.004	76	465433	100.0	113.6	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	86	373197	100.0	99.2	
102 N-Propylbenzene	120	8.643	8.643	0.001	100	1289540	100.0	101.2	
103 2-Chlorotoluene	126	8.736	8.732	0.004	95	1136637	100.0	99.2	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	94	3925819	100.0	102.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.852	8.852	0.000	98	1203492	100.0	101.3	
106 tert-Butylbenzene	119	9.122	9.122	0.000	94	3187698	100.0	101.8	
107 1,2,4-Trimethylbenzene	105	9.182	9.182	0.000	98	4135989	100.0	97.5	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	911962	100.0	103.4	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	97	2161403	100.0	98.8	
111 4-Isopropyltoluene	119	9.490	9.493	-0.003	97	4074345	100.0	96.8	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	93	2223906	100.0	96.3	
114 n-Butylbenzene	91	9.895	9.898	-0.003	98	3811906	100.0	97.2	
115 1,2-Dichlorobenzene	146	9.917	9.921	-0.004	96	2078418	100.0	101.3	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	81	237642	100.0	111.5	
118 1,2,4-Trichlorobenzene	180	11.525	11.525	0.000	94	1080141	100.0	105.9	
119 Hexachlorobutadiene	225	11.664	11.668	-0.004	97	455388	100.0	94.7	
120 Naphthalene	128	11.788	11.791	-0.003	98	2947363	100.0	104.1	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	835581	100.0	101.6	
S 143 1,3-Dichloropropene, Total	1				0		200.0	213.3	
S 142 Trihalomethanes, Total	1				0		400.0	406.3	
S 141 Xylenes, Total	106				0		200.0	204.4	
S 140 1,2-Dichloroethene, Total	1				0		200.0	191.3	
S 139 Total BTEX	1				0			500.1	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MV-MegaMainA_00092

Amount Added: 50.00

Units: uL

MV-Gas A_00160

Amount Added: 20.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6571.D

Injection Date: 30-Jul-2023 16:53:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

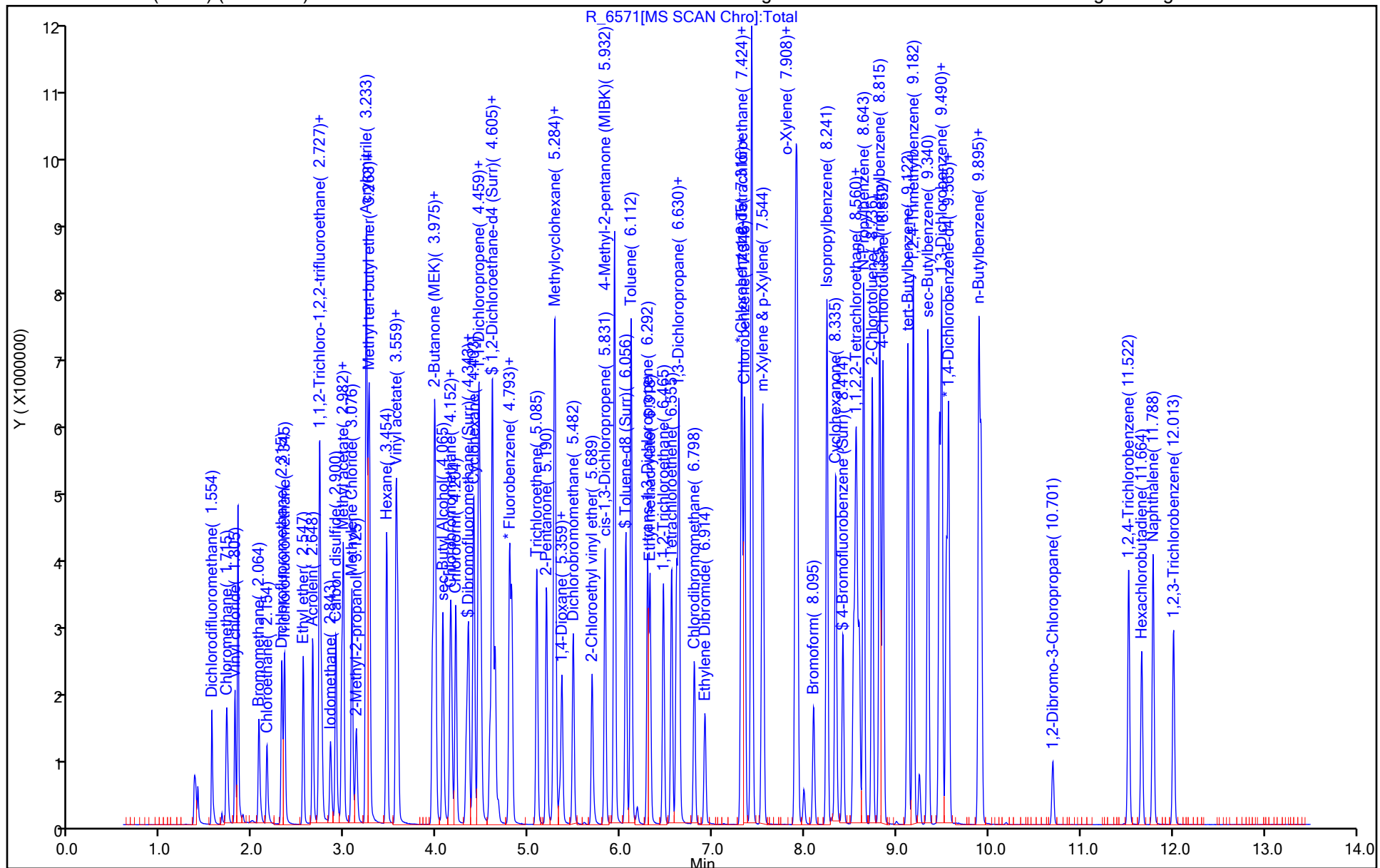
ALS Bottle#: 4

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

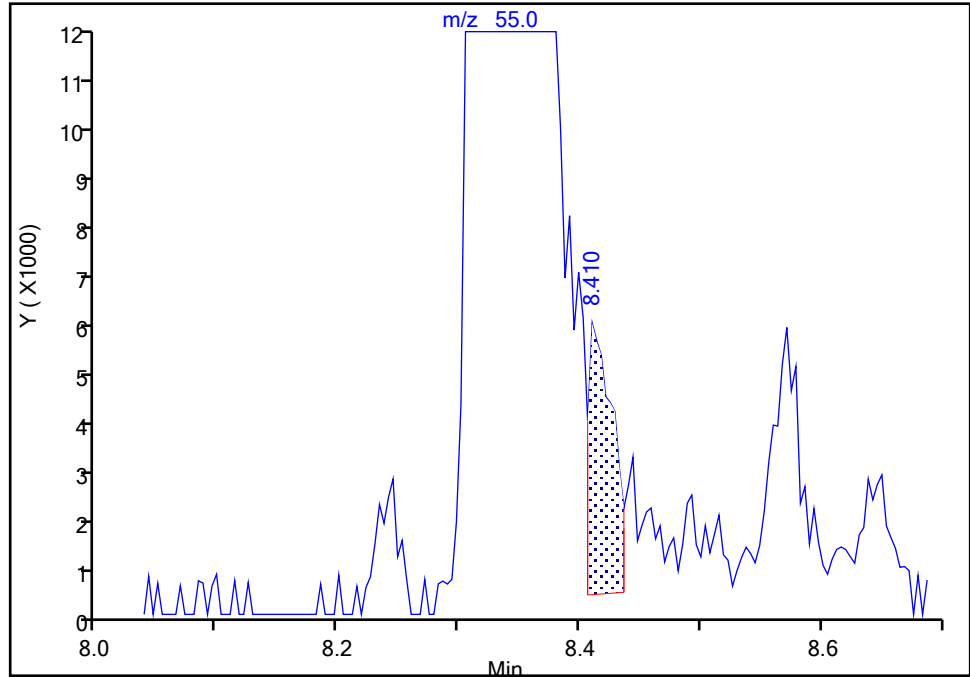
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6571.D
Injection Date: 30-Jul-2023 16:53:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 4 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

97 Cyclohexanone, CAS: 108-94-1

Signal: 1

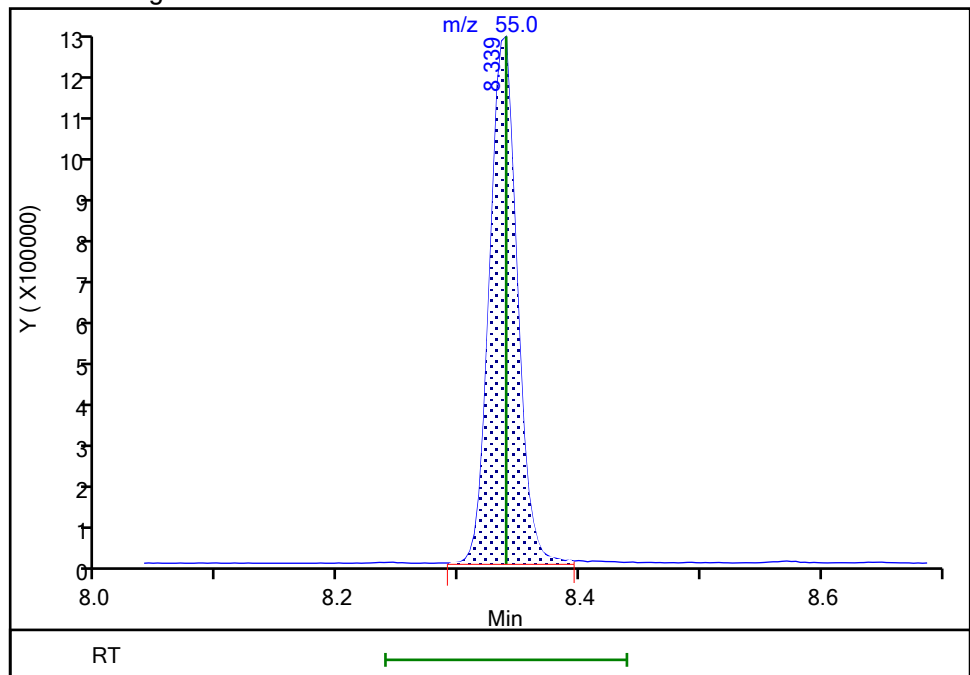
RT: 8.41
Area: 7310
Amount: 17.710384
Amount Units: ug/l

Processing Integration Results



RT: 8.34
Area: 2036537
Amount: 3211.8960
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:46:29 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Wrong peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6572.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 30-Jul-2023 17:14:30 ALS Bottle#: 5 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 75
 Misc. Info.: 280-0124001-015
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:50:57 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:47:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2262624	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	573514	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	902314	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.320	0.001	92	591676	50.0	49.8	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.579	-0.004	0	707774	50.0	49.8	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	95	2432638	50.0	49.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	85	873420	50.0	50.0	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	766217	75.0	70.5	
10 Chloromethane	50	1.711	1.715	-0.004	99	1194541	75.0	69.5	
11 Vinyl chloride	62	1.805	1.805	0.000	98	980486	75.0	71.1	
13 Bromomethane	94	2.068	2.071	-0.003	91	597574	75.0	66.0	
14 Chloroethane	64	2.154	2.157	-0.003	100	588652	75.0	66.0	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	97	1400941	75.0	66.7	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	1031109	75.0	68.0	
18 Ethyl ether	59	2.547	2.547	0.000	95	716676	75.0	75.5	
20 Acrolein	56	2.649	2.652	-0.003	99	1233556	740.6	775.1	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.724	2.723	0.001	96	498080	75.0	79.4	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	95	650818	75.0	74.5	
23 Acetone	43	2.746	2.746	0.000	99	1131804	300.0	293.8	
25 Iodomethane	142	2.844	2.843	0.001	99	892854	75.0	73.2	
26 Carbon disulfide	76	2.900	2.903	-0.003	100	2424170	75.0	70.1	
28 Methyl acetate	43	2.967	2.967	0.000	99	1456924	150.0	157.4	
29 3-Chloro-1-propene	41	2.982	2.986	-0.004	91	1485205	75.0	68.7	
30 Methylene Chloride	84	3.076	3.076	0.000	99	839681	75.0	71.1	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	97	835074	750.0	823.7	
32 Acrylonitrile	53	3.230	3.233	-0.003	99	3572836	750.0	786.5	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	2268293	75.0	79.0	
34 trans-1,2-Dichloroethene	96	3.267	3.271	-0.004	95	752281	75.0	72.3	
35 Hexane	57	3.455	3.454	0.001	96	1194899	75.0	80.2	
37 Vinyl acetate	43	3.556	3.559	-0.003	97	3722513	150.0	149.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.575	3.574	0.001	96	1585426	75.0	72.7	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1809265	300.0	318.4	
45 cis-1,2-Dichloroethene	96	3.972	3.975	-0.003	85	842235	75.0	73.5	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	90	1186989	75.0	77.1	
48 sec-Butyl Alcohol	45	4.066	4.065	0.001	100	1911783	1800.0	1852.2	
50 Chlorobromomethane	128	4.148	4.148	0.000	93	361127	75.0	74.9	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	91	611656	150.0	164.9	
52 Chloroform	83	4.204	4.208	-0.004	95	1412512	75.0	73.1	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	97	1134362	75.0	74.9	
54 Cyclohexane	56	4.399	4.403	-0.004	95	1528914	75.0	81.0	
55 1,1-Dichloropropene	75	4.452	4.455	-0.003	97	1184180	75.0	77.4	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	97	999173	75.0	77.1	
57 Isobutyl alcohol	41	4.478	4.478	0.000	94	857785	1875.0	1964.8	
58 Benzene	78	4.605	4.601	0.004	97	3352499	75.0	74.0	
59 1,2-Dichloroethane	62	4.632	4.635	-0.003	97	1144315	75.0	73.8	
63 n-Heptane	43	4.789	4.793	-0.004	97	1083746	75.0	80.4	
65 Trichloroethene	95	5.085	5.089	-0.004	97	803857	75.0	72.6	
66 2-Pentanone	43	5.194	5.194	0.000	98	2257078	240.0	246.9	
67 Methylcyclohexane	55	5.276	5.280	-0.004	94	1099640	75.0	80.8	
68 1,2-Dichloropropane	63	5.288	5.291	-0.003	96	958355	75.0	75.9	
70 1,4-Dioxane	88	5.336	5.344	-0.008	97	226630	1500.0	1435.8	
71 Dibromomethane	93	5.359	5.362	-0.003	91	498786	75.0	73.5	
72 Dichlorobromomethane	83	5.483	5.486	-0.003	98	1133538	75.0	76.3	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	90	586331	75.0	77.4	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	93	1450482	75.0	76.9	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	98	3862274	300.0	302.3	
77 Toluene	91	6.112	6.112	0.000	97	3461200	75.0	73.8	
78 trans-1,3-Dichloropropene	75	6.292	6.296	-0.004	93	1319067	75.0	79.6	
79 Ethyl methacrylate	69	6.319	6.322	-0.003	91	1109241	75.0	75.7	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	711925	75.0	76.8	
81 Tetrachloroethene	164	6.555	6.555	0.000	93	561783	75.0	74.5	
82 1,3-Dichloropropane	76	6.607	6.611	-0.004	94	1365020	75.0	76.4	
83 2-Hexanone	43	6.633	6.633	0.000	97	2634190	300.0	303.7	
84 Chlorodibromomethane	129	6.798	6.802	-0.004	91	800156	75.0	75.1	
86 Ethylene Dibromide	107	6.915	6.918	-0.003	99	742397	75.0	76.5	
87 1-Chlorohexane	91	7.312	7.312	0.000	93	875683	60.0	60.7	
88 Chlorobenzene	112	7.346	7.349	-0.003	93	2168496	75.0	72.3	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.420	0.001	95	757229	75.0	74.7	
90 Ethylbenzene	106	7.424	7.424	0.000	99	1186090	75.0	74.9	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	1450363	75.0	75.5	
92 o-Xylene	106	7.900	7.904	-0.004	97	1451896	75.0	78.1	
93 Styrene	104	7.919	7.919	0.000	95	2436423	75.0	79.0	
94 Bromoform	173	8.099	8.099	0.000	94	534780	75.0	77.5	
95 Isopropylbenzene	105	8.242	8.241	0.001	96	3579071	75.0	78.2	
97 Cyclohexanone	55	8.335	8.339	-0.004	96	1435329	2250.0	2256.5	a
98 1,1,2,2-Tetrachloroethane	83	8.530	8.534	-0.004	93	1029723	75.0	76.6	
99 Bromobenzene	156	8.556	8.560	-0.004	97	862413	75.0	75.2	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.575	-0.004	76	330245	75.0	81.2	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	86	272092	75.0	73.0	
102 N-Propylbenzene	120	8.643	8.643	0.001	99	982181	75.0	77.7	
103 2-Chlorotoluene	126	8.736	8.732	0.004	96	856999	75.0	75.4	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	94	2960232	75.0	77.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.853	8.852	0.001	98	894813	75.0	75.9	
106 tert-Butylbenzene	119	9.123	9.122	0.001	95	2430544	75.0	78.3	
107 1,2,4-Trimethylbenzene	105	9.183	9.182	0.000	98	3076103	75.0	73.1	
108 sec-Butylbenzene	134	9.344	9.340	0.004	95	688939	75.0	78.8	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	97	1595004	75.0	73.5	
111 4-Isopropyltoluene	119	9.490	9.493	-0.003	98	3068901	75.0	73.6	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	93	1664489	75.0	72.6	
114 n-Butylbenzene	91	9.895	9.898	-0.003	98	2873279	75.0	73.9	
115 1,2-Dichlorobenzene	146	9.917	9.921	-0.004	96	1530264	75.0	75.1	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	79	163021	75.0	77.1	
118 1,2,4-Trichlorobenzene	180	11.525	11.525	0.000	94	767923	75.0	75.9	
119 Hexachlorobutadiene	225	11.664	11.668	-0.004	97	335148	75.0	70.3	
120 Naphthalene	128	11.788	11.791	-0.003	98	1985671	75.0	70.8	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	538767	75.0	71.1	
S 143 1,3-Dichloropropene, Total	1				0		150.0	156.4	
S 142 Trihalomethanes, Total	1				0		300.0	302.0	
S 141 Xylenes, Total	106				0		150.0	153.5	
S 140 1,2-Dichloroethene, Total	1				0		150.0	145.8	
S 139 Total BTEX	1				0			376.2	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

MV-MegaMainA_00092

Amount Added: 37.50

Units: uL

MV-Gas A_00160

Amount Added: 15.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6572.D

Injection Date: 30-Jul-2023 17:14:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

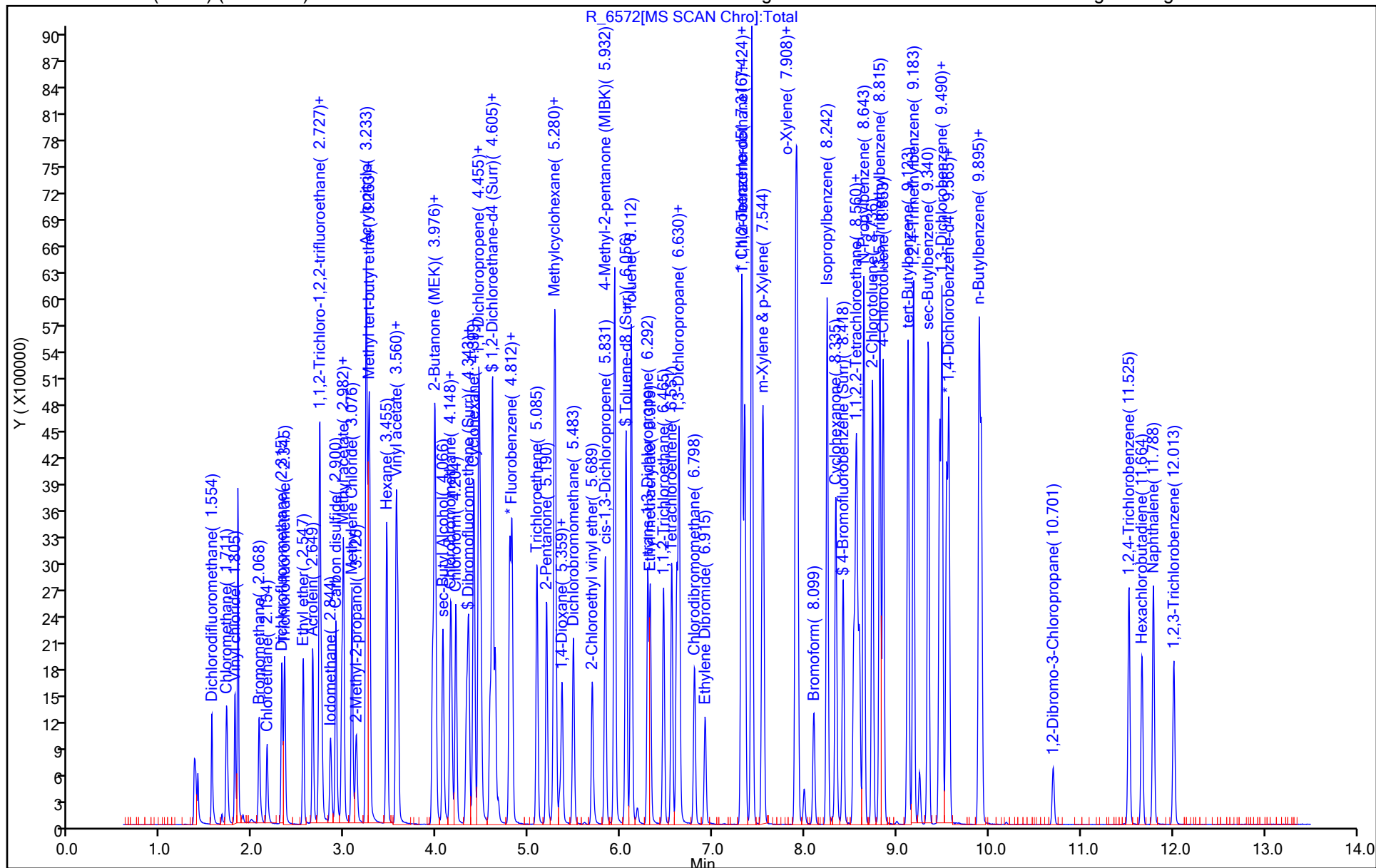
ALS Bottle#: 5

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6572.D

Injection Date: 30-Jul-2023 17:14:30

Instrument ID: VMS_R1

Lims ID: ic

Client ID:

Operator ID: bustillose

ALS Bottle#:

5

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

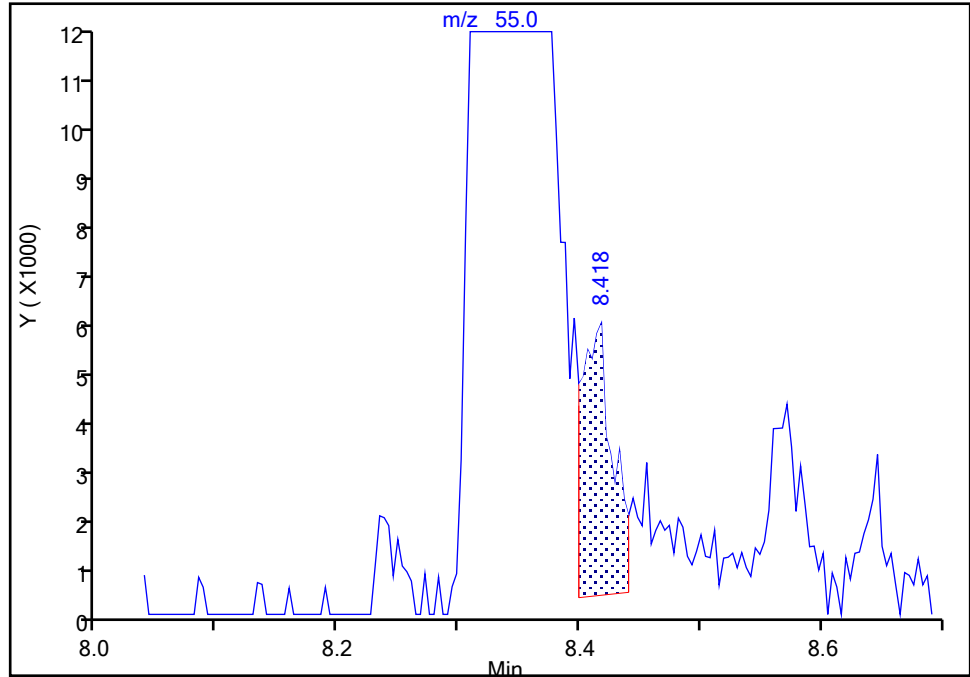
MS SCAN

97 Cyclohexanone, CAS: 108-94-1

Signal: 1

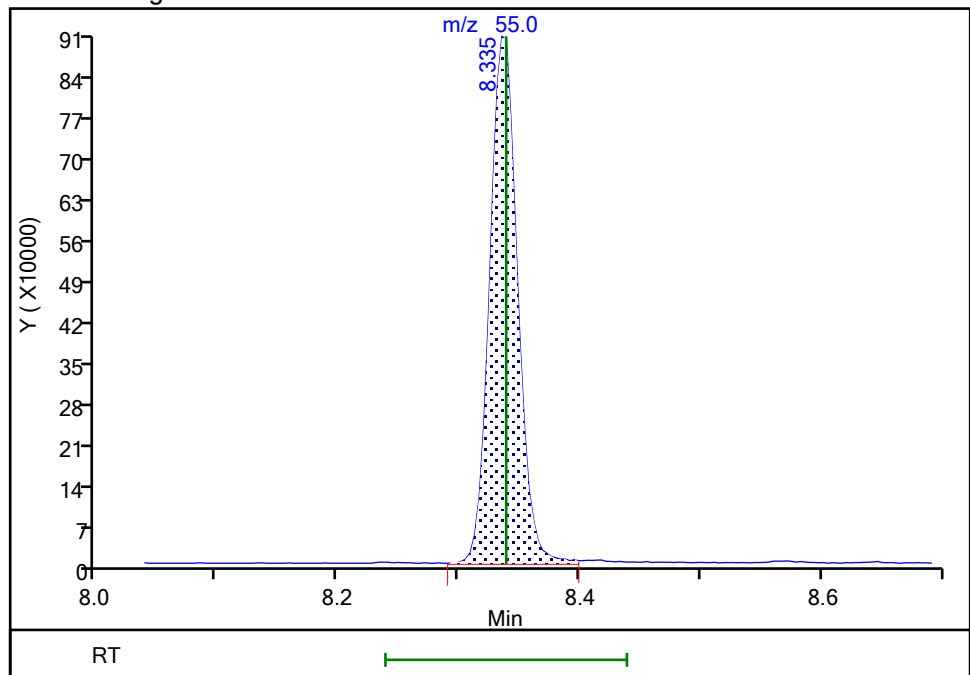
RT: 8.42
Area: 9308
Amount: 18.987092
Amount Units: ug/l

Processing Integration Results



RT: 8.34
Area: 1435329
Amount: 2256.4894
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:47:36 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Wrong peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6573.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 30-Jul-2023 17:35:30 ALS Bottle#: 6 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icis
 Misc. Info.: 280-0124001-016
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:50:59 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:48:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	99	2317582	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.319	0.000	88	571323	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	917352	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	603951	50.0	49.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	719542	50.0	49.4	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2484696	50.0	50.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	85	881473	50.0	49.6	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	548334	50.0	49.3	
10 Chloromethane	50	1.715	1.715	0.000	99	859120	50.0	48.8	
11 Vinyl chloride	62	1.805	1.805	0.000	98	707184	50.0	50.0	
13 Bromomethane	94	2.068	2.068	0.000	91	415621	50.0	44.8	
14 Chloroethane	64	2.154	2.154	0.000	99	423539	50.0	46.4	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	97	1007920	50.0	46.9	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	715490	50.0	46.1	
18 Ethyl ether	59	2.547	2.547	0.000	95	488077	50.0	50.2	
20 Acrolein	56	2.649	2.649	0.000	99	855254	493.8	524.6	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.727	2.727	0.000	95	323952	50.0	50.4	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	94	430475	50.0	48.1	
23 Acetone	43	2.746	2.746	0.000	99	802061	200.0	199.9	
25 Iodomethane	142	2.843	2.843	0.000	99	619730	50.0	49.6	
26 Carbon disulfide	76	2.903	2.903	0.000	100	1591721	50.0	45.0	
28 Methyl acetate	43	2.967	2.967	0.000	99	1016078	100.0	107.2	
29 3-Chloro-1-propene	41	2.986	2.986	0.000	91	1002023	50.0	45.3	
30 Methylene Chloride	84	3.076	3.076	0.000	99	564598	50.0	46.6	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	97	556892	500.0	536.3	
32 Acrylonitrile	53	3.230	3.230	0.000	99	2453164	500.0	527.2	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	1515605	50.0	51.5	
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	94	498341	50.0	46.8	
35 Hexane	57	3.455	3.455	0.000	95	760611	50.0	51.2	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2546613	100.0	100.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	1070040	50.0	47.9	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1274194	200.0	218.9	
45 cis-1,2-Dichloroethene	96	3.976	3.976	0.000	85	571830	50.0	48.7	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	91	781566	50.0	49.5	
48 sec-Butyl Alcohol	45	4.066	4.066	0.000	99	1279159	1200.0	1214.3	
50 Chlorobromomethane	128	4.144	4.144	0.000	93	250866	50.0	50.8	
51 Tetrahydrofuran	42	4.159	4.159	0.000	92	421494	100.0	110.9	
52 Chloroform	83	4.208	4.208	0.000	95	966168	50.0	48.8	
53 1,1,1-Trichloroethane	97	4.347	4.347	0.000	97	746314	50.0	48.1	
54 Cyclohexane	56	4.399	4.399	0.000	94	959529	50.0	49.6	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	97	767187	50.0	48.9	
56 Carbon tetrachloride	117	4.459	4.459	0.000	97	640170	50.0	48.2	
57 Isobutyl alcohol	41	4.478	4.478	0.000	96	575910	1250.0	1291.4	
58 Benzene	78	4.605	4.605	0.000	97	2249126	50.0	48.5	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	785810	50.0	49.5	
63 n-Heptane	43	4.793	4.793	0.000	96	683710	50.0	49.5	
65 Trichloroethene	95	5.089	5.089	0.000	97	527324	50.0	47.8	
66 2-Pentanone	43	5.190	5.190	0.000	98	1530656	160.0	164.0	
67 Methylcyclohexane	55	5.276	5.276	0.000	94	694844	50.0	49.9	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	96	639681	50.0	49.5	
70 1,4-Dioxane	88	5.336	5.336	0.000	97	158279	1000.0	982.5	
71 Dibromomethane	93	5.363	5.363	0.000	92	344598	50.0	49.5	
72 Dichlorobromomethane	83	5.486	5.486	0.000	98	763899	50.0	50.2	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	93	392791	50.0	50.8	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	93	998764	50.0	53.1	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.932	0.000	98	2641791	200.0	202.4	
77 Toluene	91	6.112	6.112	0.000	98	2313578	50.0	48.2	
78 trans-1,3-Dichloropropene	75	6.292	6.292	0.000	92	896343	50.0	52.8	
79 Ethyl methacrylate	69	6.318	6.318	0.000	92	766834	50.0	52.7	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	485834	50.0	51.1	
81 Tetrachloroethene	164	6.551	6.551	0.000	93	372700	50.0	49.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	94	930686	50.0	52.3	
83 2-Hexanone	43	6.633	6.633	0.000	98	1811684	200.0	210.3	
84 Chlorodibromomethane	129	6.802	6.802	0.000	90	545680	50.0	51.4	
86 Ethylene Dibromide	107	6.918	6.918	0.000	99	504040	50.0	52.1	
87 1-Chlorohexane	91	7.312	7.312	0.000	93	562640	40.0	39.2	
88 Chlorobenzene	112	7.349	7.349	0.000	93	1456681	50.0	48.7	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.421	0.000	95	507502	50.0	50.3	
90 Ethylbenzene	106	7.424	7.424	0.000	99	777251	50.0	49.2	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	956654	50.0	50.0	
92 o-Xylene	106	7.900	7.900	0.000	97	960855	50.0	51.9	
93 Styrene	104	7.919	7.919	0.000	95	1622960	50.0	52.8	
94 Bromoform	173	8.099	8.099	0.000	94	366937	50.0	53.4	
95 Isopropylbenzene	105	8.242	8.242	0.000	96	2358022	50.0	50.7	
97 Cyclohexanone	55	8.335	8.335	0.000	96	987745	1500.0	1562.4	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	702218	50.0	51.4	
99 Bromobenzene	156	8.556	8.556	0.000	97	580341	50.0	49.8	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.571	0.000	88	221952	50.0	53.7	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	86	187920	50.0	49.7	
102 N-Propylbenzene	120	8.643	8.643	0.000	100	644130	50.0	50.1	
103 2-Chlorotoluene	126	8.736	8.736	0.000	95	570282	50.0	49.3	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	94	1965960	50.0	50.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.853	8.853	0.000	99	599944	50.0	50.1	
106 tert-Butylbenzene	119	9.122	9.122	0.000	95	1593556	50.0	50.5	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	98	2056135	50.0	48.2	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	452586	50.0	50.9	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	97	1072692	50.0	48.6	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1999249	50.0	47.3	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	93	1098799	50.0	47.2	
114 n-Butylbenzene	91	9.895	9.895	0.000	98	1881966	50.0	47.8	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	1042034	50.0	50.3	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.701	0.000	79	113504	50.0	52.8	
118 1,2,4-Trichlorobenzene	180	11.525	11.525	0.000	94	524831	50.0	51.0	
119 Hexachlorobutadiene	225	11.668	11.668	0.000	97	221636	50.0	45.7	
120 Naphthalene	128	11.788	11.788	0.000	97	1376775	50.0	48.3	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	380888	50.0	51.5	
S 143 1,3-Dichloropropene, Total	1				0		100.0	105.9	
S 142 Trihalomethanes, Total	1				0		200.0	203.8	
S 141 Xylenes, Total	106				0		100.0	101.8	
S 140 1,2-Dichloroethene, Total	1				0		100.0	95.5	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00160

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6573.D

Injection Date: 30-Jul-2023 17:35:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ics

Worklist Smp#: 16

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

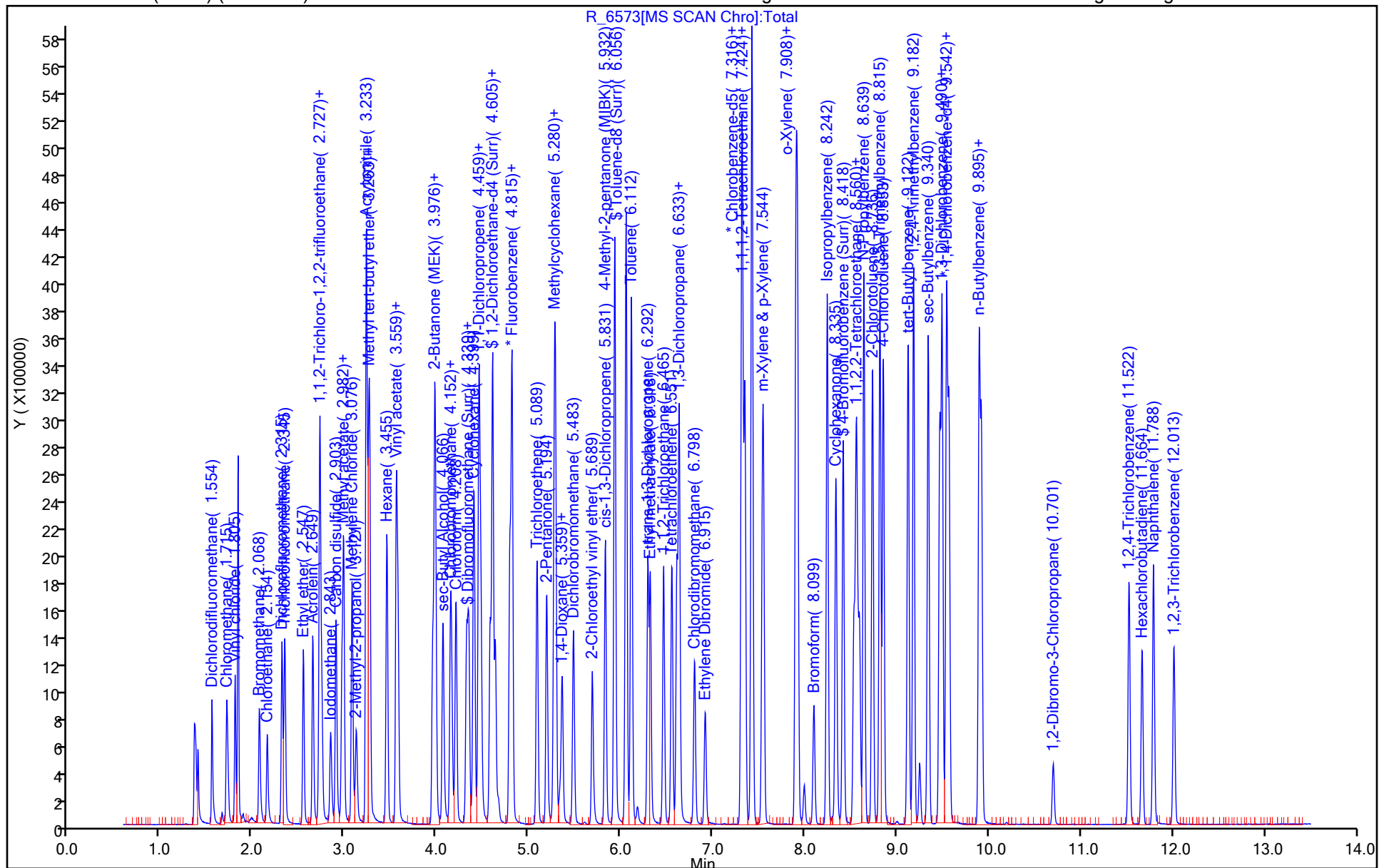
ALS Bottle#: 6

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6574.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 30-Jul-2023 17:56:30 ALS Bottle#: 7 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 10
 Misc. Info.: 280-0124001-017
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:51:01 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:49:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2216038	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.323	7.323	0.000	88	540571	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	852261	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	581727	50.0	50.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.579	4.579	0.000	0	698218	50.0	50.2	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2361298	50.0	50.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	86	834644	50.0	50.6	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	98	113811	10.0	10.8	
10 Chloromethane	50	1.715	1.715	0.000	99	188369	10.0	11.0	
11 Vinyl chloride	62	1.805	1.805	0.000	97	156488	10.0	11.4	
13 Bromomethane	94	2.071	2.071	0.000	91	93726	10.0	10.6	
14 Chloroethane	64	2.157	2.157	0.000	99	94553	10.0	10.8	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	97	211074	10.0	10.3	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	155446	10.0	10.5	
18 Ethyl ether	59	2.547	2.547	0.000	95	90791	10.0	9.77	
20 Acrolein	56	2.652	2.652	0.000	98	153444	98.8	98.4	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.723	2.723	0.000	62	63442	10.0	10.3	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	94	92629	10.0	10.8	
23 Acetone	43	2.746	2.746	0.000	99	182170	40.0	39.1	
25 Iodomethane	142	2.843	2.843	0.000	99	124898	10.0	10.5	
26 Carbon disulfide	76	2.903	2.903	0.000	100	358214	10.0	10.6	
28 Methyl acetate	43	2.967	2.967	0.000	99	179016	20.0	19.7	
29 3-Chloro-1-propene	41	2.986	2.986	0.000	92	212717	10.0	10.0	
30 Methylene Chloride	84	3.076	3.076	0.000	98	115656	10.0	10.0	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	96	100677	100.0	101.4	
32 Acrylonitrile	53	3.233	3.233	0.000	100	447455	100.0	100.6	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	279164	10.0	9.93	
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	95	106642	10.0	10.5	
35 Hexane	57	3.454	3.454	0.000	96	148854	10.0	10.6	
37 Vinyl acetate	43	3.559	3.559	0.000	97	420980	20.0	18.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	97	218815	10.0	10.2	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	201803	40.0	36.3	
45 cis-1,2-Dichloroethene	96	3.975	3.975	0.000	85	112706	10.0	10.0	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	91	157647	10.0	10.5	
48 sec-Butyl Alcohol	45	4.065	4.065	0.000	99	216271	240.0	225.1	
50 Chlorobromomethane	128	4.148	4.148	0.000	92	47468	10.0	10.1	
51 Tetrahydrofuran	42	4.163	4.163	0.000	94	73805	20.0	20.3	
52 Chloroform	83	4.208	4.208	0.000	95	189739	10.0	10.0	
53 1,1,1-Trichloroethane	97	4.347	4.347	0.000	97	155362	10.0	10.5	
54 Cyclohexane	56	4.403	4.403	0.000	94	193127	10.0	10.4	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	96	154249	10.0	10.3	
56 Carbon tetrachloride	117	4.463	4.463	0.000	94	131213	10.0	10.3	
57 Isobutyl alcohol	41	4.478	4.478	0.000	93	96074	250.0	233.7	
58 Benzene	78	4.601	4.601	0.000	97	456571	10.0	10.3	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	97	150604	10.0	9.91	
63 n-Heptane	43	4.793	4.793	0.000	96	127626	10.0	9.67	
65 Trichloroethene	95	5.089	5.089	0.000	97	112641	10.0	10.8	
66 2-Pentanone	43	5.194	5.194	0.000	98	245765	32.0	29.0	
67 Methylcyclohexane	55	5.280	5.280	0.000	95	136641	10.0	10.3	
68 1,2-Dichloropropane	63	5.291	5.291	0.000	97	127611	10.0	10.3	
70 1,4-Dioxane	88	5.344	5.344	0.000	86	31266	200.0	211.6	
71 Dibromomethane	93	5.362	5.362	0.000	91	66367	10.0	9.98	
72 Dichlorobromomethane	83	5.486	5.486	0.000	98	142796	10.0	9.82	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	63225	10.0	8.94	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	93	178003	10.0	10.0	
76 4-Methyl-2-pentanone (MIBK)	43	5.936	5.936	0.000	98	441994	40.0	36.7	
77 Toluene	91	6.112	6.112	0.000	97	464525	10.0	10.1	
78 trans-1,3-Dichloropropene	75	6.296	6.296	0.000	92	159104	10.0	9.80	
79 Ethyl methacrylate	69	6.322	6.322	0.000	91	123415	10.0	9.41	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	90498	10.0	9.96	
81 Tetrachloroethene	164	6.555	6.555	0.000	94	73658	10.0	10.4	
82 1,3-Dichloropropane	76	6.611	6.611	0.000	95	167922	10.0	9.96	
83 2-Hexanone	43	6.633	6.633	0.000	99	288294	40.0	36.9	
84 Chlorodibromomethane	129	6.802	6.802	0.000	90	101920	10.0	10.1	
86 Ethylene Dibromide	107	6.918	6.918	0.000	96	90874	10.0	9.93	
87 1-Chlorohexane	91	7.312	7.312	0.000	87	104743	8.00	7.71	
88 Chlorobenzene	112	7.349	7.349	0.000	93	285626	10.0	10.1	
89 1,1,1,2-Tetrachloroethane	131	7.420	7.420	0.000	94	96439	10.0	10.1	
90 Ethylbenzene	106	7.424	7.424	0.000	99	153297	10.0	10.3	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	187510	10.0	10.4	
92 o-Xylene	106	7.904	7.904	0.000	97	179582	10.0	10.2	
93 Styrene	104	7.919	7.919	0.000	95	295970	10.0	10.2	
94 Bromoform	173	8.099	8.099	0.000	93	64033	10.0	9.85	
95 Isopropylbenzene	105	8.241	8.241	0.000	96	456379	10.0	10.6	
97 Cyclohexanone	55	8.339	8.339	0.000	96	188883	300.0	325.1	
98 1,1,2,2-Tetrachloroethane	83	8.534	8.534	0.000	93	127980	10.0	10.1	
99 Bromobenzene	156	8.560	8.560	0.000	96	107428	10.0	9.92	
100 trans-1,4-Dichloro-2-butene	53	8.575	8.575	0.000	75	38713	10.0	10.1	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	84	34230	10.0	10.0	
102 N-Propylbenzene	120	8.643	8.643	0.000	99	127369	10.0	10.7	
103 2-Chlorotoluene	126	8.732	8.732	0.000	96	112532	10.0	10.5	
104 1,3,5-Trimethylbenzene	105	8.819	8.819	0.000	96	379363	10.0	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.852	8.852	0.000	98	116560	10.0	10.5	
106 tert-Butylbenzene	119	9.122	9.122	0.000	94	307203	10.0	10.5	
107 1,2,4-Trimethylbenzene	105	9.182	9.182	0.000	98	388533	10.0	10.1	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	92941	10.0	11.2	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	97	209616	10.0	10.2	
111 4-Isopropyltoluene	119	9.493	9.493	0.000	97	388476	10.0	10.2	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	94	214777	10.0	9.92	
114 n-Butylbenzene	91	9.898	9.898	0.000	99	350991	10.0	9.96	
115 1,2-Dichlorobenzene	146	9.921	9.921	0.000	96	198648	10.0	10.3	
116 1,2-Dibromo-3-Chloropropane	157	10.704	10.704	0.000	79	22842	10.0	11.4	
118 1,2,4-Trichlorobenzene	180	11.525	11.525	0.000	94	103227	10.0	10.8	
119 Hexachlorobutadiene	225	11.668	11.668	0.000	95	46668	10.0	10.4	
120 Naphthalene	128	11.791	11.791	0.000	98	319121	10.0	12.2	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	95	124142	10.0	17.7	
S 143 1,3-Dichloropropene, Total	1				0		20.0	19.8	
S 142 Trihalomethanes, Total	1				0		40.0	39.8	
S 141 Xylenes, Total	106				0		20.0	20.6	
S 140 1,2-Dichloroethene, Total	1				0		20.0	20.5	
S 139 Total BTEX	1				0			51.3	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 5.00

Units: uL

MV-Gas A_00160

Amount Added: 2.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6574.D

Injection Date: 30-Jul-2023 17:56:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

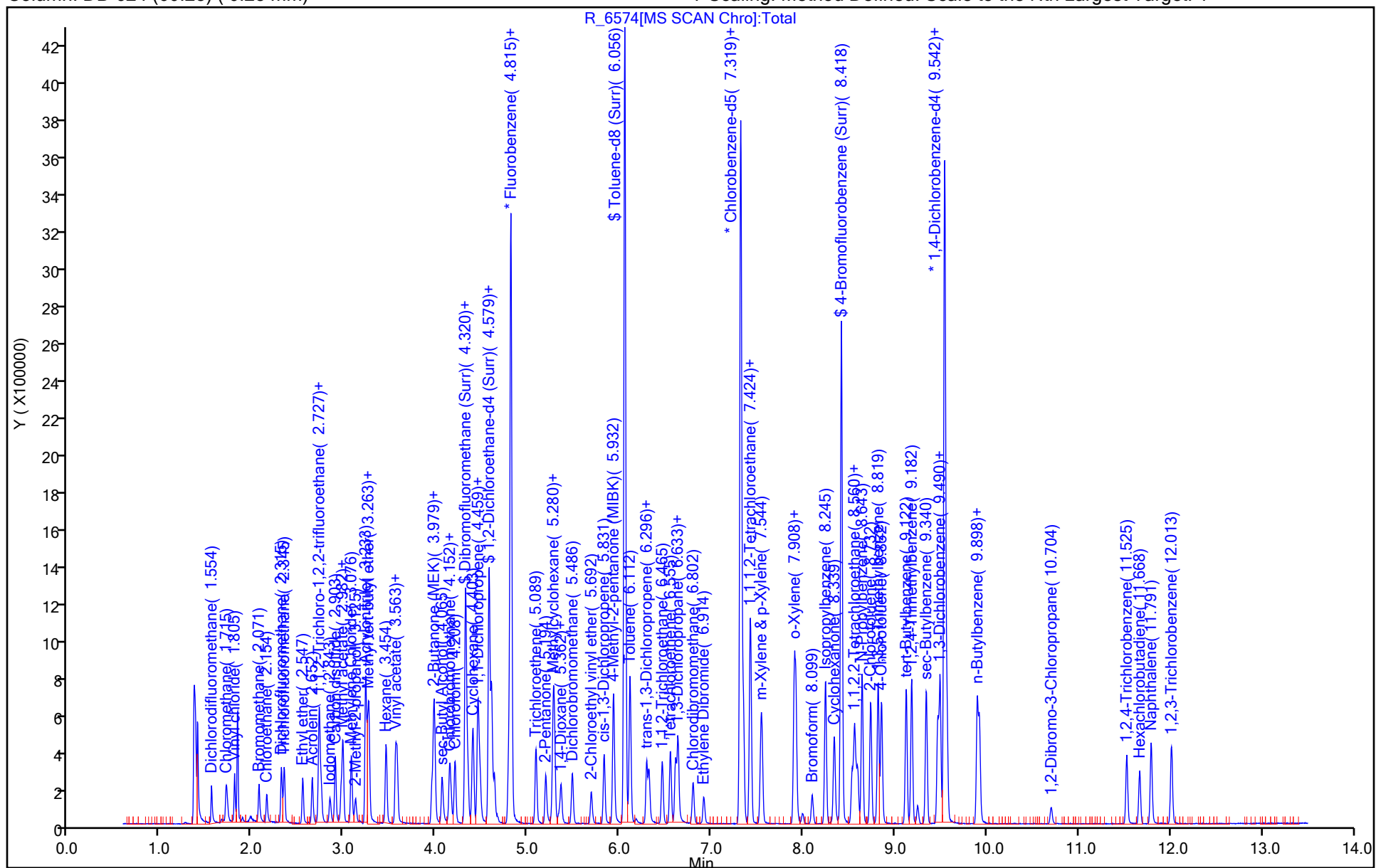
ALS Bottle#: 7

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6575.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 30-Jul-2023 18:16:30 ALS Bottle#: 8 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 5
 Misc. Info.: 280-0124001-018
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:51:03 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:52:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2161519	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	530920	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	841338	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.320	0.001	92	569705	50.0	50.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.579	4.579	0.000	0	683676	50.0	50.4	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2314856	50.0	50.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	85	818556	50.0	50.2	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	61186	5.00	6.02	
10 Chloromethane	50	1.715	1.715	0.000	99	114452	5.00	6.78	
11 Vinyl chloride	62	1.805	1.805	0.000	97	94067	5.00	6.90	
13 Bromomethane	94	2.071	2.071	0.000	91	54940	5.00	6.36	
14 Chloroethane	64	2.154	2.157	-0.003	99	53484	5.00	6.28	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	97	129853	5.00	6.48	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	87559	5.00	6.05	
18 Ethyl ether	59	2.547	2.547	0.000	93	49874	5.00	5.50	
20 Acrolein	56	2.652	2.652	0.000	98	75486	49.4	49.6	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.724	2.723	0.001	59	35957	5.00	6.00	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	93	52020	5.00	6.24	
23 Acetone	43	2.746	2.746	0.000	99	110795	20.0	20.3	
25 Iodomethane	142	2.844	2.843	0.001	99	70900	5.00	6.09	
26 Carbon disulfide	76	2.904	2.903	0.001	100	213941	5.00	6.48	
28 Methyl acetate	43	2.967	2.967	0.000	98	86749	10.0	9.81	
29 3-Chloro-1-propene	41	2.986	2.986	0.000	91	128009	5.00	6.20	
30 Methylene Chloride	84	3.076	3.076	0.000	98	68405	5.00	6.06	
31 2-Methyl-2-propanol	59	3.121	3.125	-0.004	96	43391	50.0	44.8	
32 Acrylonitrile	53	3.233	3.233	0.000	99	215091	50.0	49.6	
33 Methyl tert-butyl ether	73	3.260	3.256	0.004	97	143551	5.00	5.23	
34 trans-1,2-Dichloroethene	96	3.267	3.271	-0.004	94	64452	5.00	6.49	
35 Hexane	57	3.451	3.454	-0.003	95	77719	5.00	5.63	
37 Vinyl acetate	43	3.560	3.559	0.001	98	209098	10.0	9.77	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.575	3.574	0.001	96	128955	5.00	6.19	
43 2-Butanone (MEK)	43	3.957	3.953	0.004	99	99435	20.0	18.3	
45 cis-1,2-Dichloroethene	96	3.976	3.975	0.001	86	66080	5.00	6.04	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	91	89579	5.00	6.09	
48 sec-Butyl Alcohol	45	4.066	4.065	0.001	99	91744	120.0	105.0	
50 Chlorobromomethane	128	4.148	4.148	0.000	92	25398	5.00	5.52	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	91	32518	10.0	9.18	
52 Chloroform	83	4.208	4.208	0.000	94	113049	5.00	6.12	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	98	94276	5.00	6.52	
54 Cyclohexane	56	4.399	4.403	-0.004	96	104440	5.00	5.79	
55 1,1-Dichloropropene	75	4.456	4.455	0.001	94	90479	5.00	6.19	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	92	73876	5.00	5.97	
57 Isobutyl alcohol	41	4.482	4.478	0.004	90	42989	125.0	112.7	
58 Benzene	78	4.605	4.601	0.004	98	270519	5.00	6.25	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	96	81888	5.00	5.53	
63 n-Heptane	43	4.789	4.793	-0.004	87	66579	5.00	5.17	
65 Trichloroethene	95	5.085	5.089	-0.004	95	66968	5.00	6.54	
66 2-Pentanone	43	5.198	5.194	0.004	98	113217	16.0	14.6	
67 Methylcyclohexane	55	5.276	5.280	-0.004	97	75253	5.00	5.79	
68 1,2-Dichloropropane	63	5.291	5.291	0.000	95	69351	5.00	5.75	
70 1,4-Dioxane	88	5.340	5.344	-0.004	90	14449	100.0	106.0	
71 Dibromomethane	93	5.363	5.362	0.001	91	35897	5.00	5.53	
72 Dichlorobromomethane	83	5.486	5.486	0.000	98	81197	5.00	5.72	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	30964	5.00	4.73	
75 cis-1,3-Dichloropropene	75	5.835	5.831	0.004	94	97399	5.00	5.58	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	98	213872	20.0	19.0	
77 Toluene	91	6.112	6.112	0.000	98	274576	5.00	6.13	
78 trans-1,3-Dichloropropene	75	6.292	6.296	-0.004	92	82262	5.00	5.19	
79 Ethyl methacrylate	69	6.319	6.322	-0.003	91	55885	5.00	4.63	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	47759	5.00	5.39	
81 Tetrachloroethene	164	6.555	6.555	0.000	94	43399	5.00	6.22	
82 1,3-Dichloropropane	76	6.607	6.611	-0.004	89	92034	5.00	5.56	
83 2-Hexanone	43	6.637	6.633	0.004	99	133361	20.0	18.4	
84 Chlorodibromomethane	129	6.798	6.802	-0.004	91	53337	5.00	5.41	
86 Ethylene Dibromide	107	6.915	6.918	-0.003	96	46017	5.00	5.12	
87 1-Chlorohexane	91	7.308	7.312	-0.004	88	60610	4.00	4.54	
88 Chlorobenzene	112	7.346	7.349	-0.003	94	167285	5.00	6.02	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.420	0.001	95	53181	5.00	5.67	
90 Ethylbenzene	106	7.428	7.424	0.004	99	89495	5.00	6.10	
91 m-Xylene & p-Xylene	106	7.541	7.544	-0.003	0	107828	5.00	6.06	
92 o-Xylene	106	7.904	7.904	0.000	98	100357	5.00	5.83	
93 Styrene	104	7.923	7.919	0.004	97	160118	5.00	5.61	
94 Bromoform	173	8.099	8.099	0.000	93	32713	5.00	5.12	
95 Isopropylbenzene	105	8.245	8.241	0.004	96	257514	5.00	6.03	
97 Cyclohexanone	55	8.339	8.339	0.000	96	74435	150.0	137.4	
98 1,1,2,2-Tetrachloroethane	83	8.534	8.534	0.000	93	67770	5.00	5.41	
99 Bromobenzene	156	8.560	8.560	0.000	97	60912	5.00	5.70	
100 trans-1,4-Dichloro-2-butene	53	8.575	8.575	0.000	85	18458	5.00	4.87	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	85	17422	5.00	5.36	
102 N-Propylbenzene	120	8.639	8.643	-0.003	100	71656	5.00	6.08	
103 2-Chlorotoluene	126	8.736	8.732	0.004	95	63157	5.00	5.96	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	94	217693	5.00	6.14	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.856	8.852	0.004	98	65936	5.00	6.00	
106 tert-Butylbenzene	119	9.123	9.122	0.001	94	174154	5.00	6.01	
107 1,2,4-Trimethylbenzene	105	9.183	9.182	0.001	98	219968	5.00	5.92	
108 sec-Butylbenzene	134	9.344	9.340	0.004	95	47548	5.00	5.83	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	98	116868	5.00	5.78	
111 4-Isopropyltoluene	119	9.494	9.493	0.001	97	212668	5.00	5.82	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	93	121829	5.00	5.70	
114 n-Butylbenzene	91	9.899	9.898	0.001	98	189903	5.00	5.66	
115 1,2-Dichlorobenzene	146	9.921	9.921	0.000	97	107544	5.00	5.66	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	78	9831	5.00	4.99	
118 1,2,4-Trichlorobenzene	180	11.529	11.525	0.004	92	51045	5.00	5.41	
119 Hexachlorobutadiene	225	11.664	11.668	-0.004	95	27285	5.00	6.13	
120 Naphthalene	128	11.795	11.791	0.004	98	119645	5.00	4.76	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	95	45763	5.00	4.27	
S 143 1,3-Dichloropropene, Total	1				0		10.0	10.8	
S 142 Trihalomethanes, Total	1				0		20.0	22.4	
S 141 Xylenes, Total	106				0		10.0	11.9	
S 140 1,2-Dichloroethene, Total	1				0		10.0	12.5	
S 139 Total BTEX	1				0			30.4	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 2.50

Units: uL

MV-Gas A_00160

Amount Added: 1.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6575.D

Injection Date: 30-Jul-2023 18:16:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 18

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

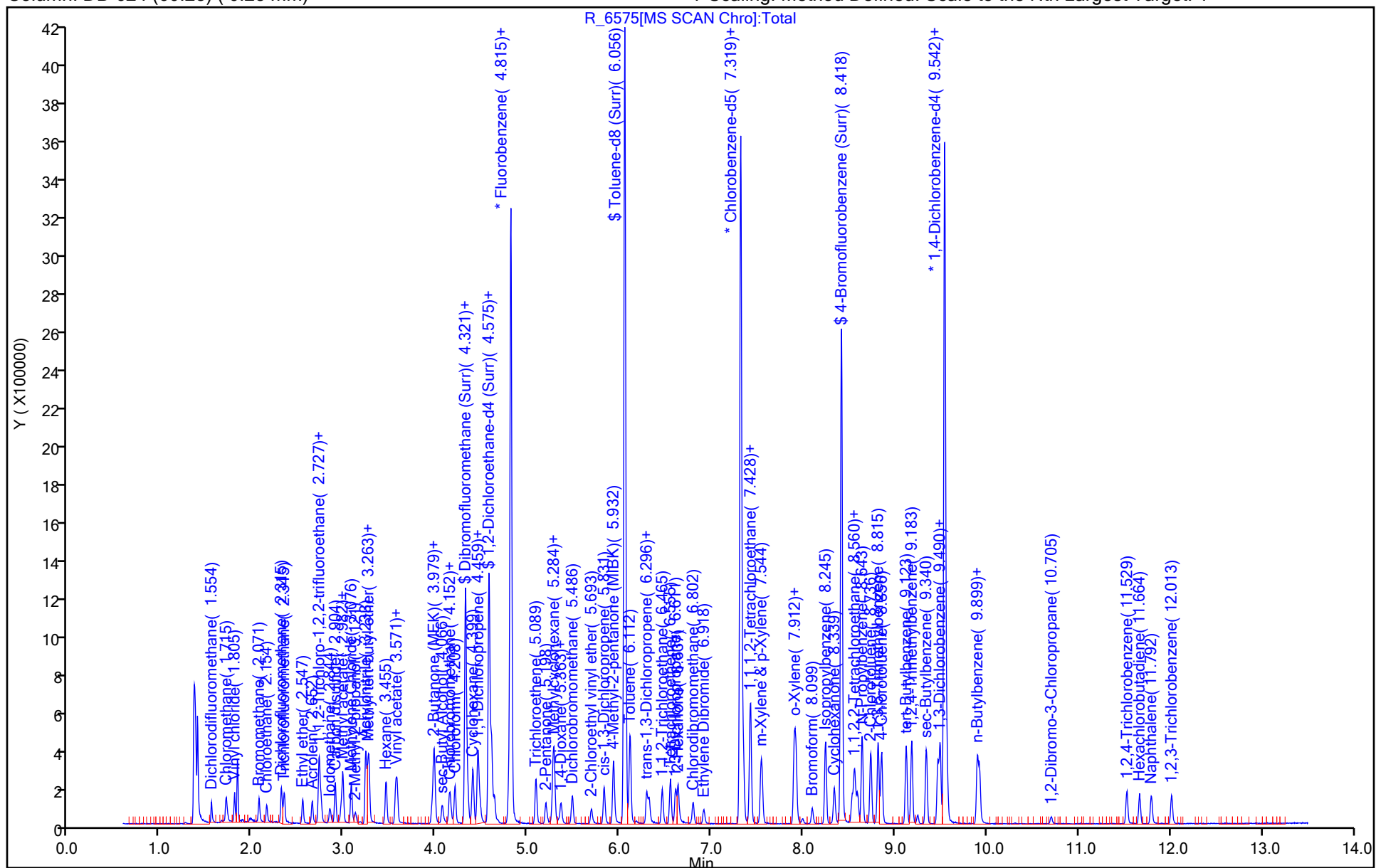
ALS Bottle#: 8

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6576.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 30-Jul-2023 18:37:30 ALS Bottle#: 9 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 2
 Misc. Info.: 280-0124001-019
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:51:04 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:53:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2179494	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	532739	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	834854	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	578558	50.0	50.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.579	-0.004	0	699506	50.0	51.1	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	95	2320241	50.0	50.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.418	8.418	0.000	85	821693	50.0	50.8	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	98	19853	2.00	2.02	
10 Chloromethane	50	1.715	1.715	0.000	97	35575	2.00	1.94	
11 Vinyl chloride	62	1.805	1.805	0.000	96	26808	2.00	1.76	
13 Bromomethane	94	2.067	2.071	-0.004	91	18232	2.00	2.09	
14 Chloroethane	64	2.154	2.157	-0.003	98	18555	2.00	2.16	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	96	42905	2.00	2.12	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	31031	2.00	2.12	
18 Ethyl ether	59	2.543	2.547	-0.004	95	17467	2.00	1.91	
20 Acrolein	56	2.648	2.652	-0.004	99	28663	19.8	18.7	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.727	2.723	0.004	61	11153	2.00	1.85	
22 1,1-Dichloroethene	96	2.731	2.727	0.004	95	15881	2.00	1.89	
23 Acetone	43	2.746	2.746	0.000	99	68921	8.00	8.33	
25 Iodomethane	142	2.840	2.843	-0.003	98	23950	2.00	2.04	
26 Carbon disulfide	76	2.900	2.903	-0.003	99	68130	2.00	2.05	
28 Methyl acetate	43	2.967	2.967	0.000	98	35079	4.00	3.93	
29 3-Chloro-1-propene	41	2.982	2.986	-0.004	91	43513	2.00	2.09	
30 Methylene Chloride	84	3.076	3.076	0.000	98	23805	2.00	2.09	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	96	17585	20.0	18.0	
32 Acrylonitrile	53	3.237	3.233	0.004	100	83404	20.0	19.1	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	49670	2.00	1.80	
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	95	18595	2.00	1.86	
35 Hexane	57	3.454	3.454	0.000	95	24488	2.00	1.77	
37 Vinyl acetate	43	3.563	3.559	0.004	98	61193	4.00	3.55	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	39196	2.00	1.87	
43 2-Butanone (MEK)	43	3.957	3.953	0.004	99	39792	8.00	7.27	
45 cis-1,2-Dichloroethene	96	3.975	3.975	0.000	84	21643	2.00	1.96	
46 2,2-Dichloropropane	77	3.979	3.983	-0.004	72	27174	2.00	1.83	
48 sec-Butyl Alcohol	45	4.069	4.065	0.004	98	34401	48.0	47.0	
50 Chlorobromomethane	128	4.148	4.148	0.000	93	8831	2.00	1.90	
51 Tetrahydrofuran	42	4.163	4.163	0.000	91	12203	4.00	3.42	
52 Chloroform	83	4.208	4.208	0.000	94	36242	2.00	1.95	
53 1,1,1-Trichloroethane	97	4.339	4.347	-0.008	95	26827	2.00	1.84	
54 Cyclohexane	56	4.403	4.403	0.000	95	33163	2.00	1.82	
55 1,1-Dichloropropene	75	4.459	4.455	0.004	94	26135	2.00	1.77	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	92	23587	2.00	1.89	
57 Isobutyl alcohol	41	4.482	4.478	0.004	91	13964	50.0	43.2	
58 Benzene	78	4.605	4.601	0.004	95	81329	2.00	1.86	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	96	28202	2.00	1.89	
63 n-Heptane	43	4.789	4.793	-0.004	73	23619	2.00	1.82	
65 Trichloroethene	95	5.093	5.089	0.004	97	21019	2.00	2.04	
66 2-Pentanone	43	5.198	5.194	0.004	98	37402	6.40	5.92	
67 Methylcyclohexane	55	5.276	5.280	-0.004	92	22565	2.00	1.72	
68 1,2-Dichloropropane	63	5.287	5.291	-0.004	93	22131	2.00	1.82	
70 1,4-Dioxane	88	5.344	5.344	0.000	27	5021	40.0	43.7	
71 Dibromomethane	93	5.359	5.362	-0.003	94	13348	2.00	2.04	
72 Dichlorobromomethane	83	5.486	5.486	0.000	98	26308	2.00	1.84	
74 2-Chloroethyl vinyl ether	63	5.696	5.689	0.007	90	10785	2.00	1.95	
75 cis-1,3-Dichloropropene	75	5.835	5.831	0.004	94	31725	2.00	1.81	
76 4-Methyl-2-pentanone (MIBK)	43	5.936	5.936	0.000	97	76213	8.00	7.69	
77 Toluene	91	6.116	6.112	0.004	96	86643	2.00	1.92	
78 trans-1,3-Dichloropropene	75	6.296	6.296	0.000	95	26091	2.00	1.63	
79 Ethyl methacrylate	69	6.318	6.322	-0.004	89	18523	2.00	1.89	
80 1,1,2-Trichloroethane	97	6.468	6.465	0.003	91	17015	2.00	1.90	
81 Tetrachloroethene	164	6.555	6.555	0.000	92	13231	2.00	1.89	
82 1,3-Dichloropropane	76	6.611	6.611	0.000	94	30261	2.00	1.82	
83 2-Hexanone	43	6.637	6.633	0.004	97	41835	8.00	7.04	
84 Chlorodibromomethane	129	6.802	6.802	0.000	88	19266	2.00	1.95	
86 Ethylene Dibromide	107	6.922	6.918	0.004	95	18776	2.00	2.08	
87 1-Chlorohexane	91	7.316	7.312	0.004	34	21134	1.60	1.58	
88 Chlorobenzene	112	7.345	7.349	-0.004	93	53183	2.00	1.91	
89 1,1,1,2-Tetrachloroethane	131	7.424	7.420	0.004	91	17176	2.00	1.83	
90 Ethylbenzene	106	7.432	7.424	0.008	99	26902	2.00	1.83	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	32780	2.00	1.84	
92 o-Xylene	106	7.900	7.904	-0.004	97	29132	2.00	1.69	
93 Styrene	104	7.923	7.919	0.004	95	48478	2.00	1.69	
94 Bromoform	173	8.103	8.099	0.004	89	12098	2.00	1.89	
95 Isopropylbenzene	105	8.245	8.241	0.004	97	75615	2.00	1.78	
97 Cyclohexanone	55	8.339	8.339	0.000	95	25458	60.0	54.5	
98 1,1,2,2-Tetrachloroethane	83	8.534	8.534	0.000	93	24736	2.00	1.99	
99 Bromobenzene	156	8.556	8.560	-0.004	97	20729	2.00	1.95	
100 trans-1,4-Dichloro-2-butene	53	8.579	8.575	0.004	82	6441	2.00	1.71	
101 1,2,3-Trichloropropane	110	8.601	8.594	0.007	84	6141	2.00	2.15	
102 N-Propylbenzene	120	8.643	8.643	0.001	99	20966	2.00	1.79	
103 2-Chlorotoluene	126	8.736	8.732	0.004	95	19237	2.00	1.83	
104 1,3,5-Trimethylbenzene	105	8.819	8.819	0.000	93	60209	2.00	1.71	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.856	8.852	0.004	97	20572	2.00	1.89	
106 tert-Butylbenzene	119	9.126	9.122	0.004	95	50328	2.00	1.75	
107 1,2,4-Trimethylbenzene	105	9.182	9.182	0.000	99	58668	2.00	1.83	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	13731	2.00	1.70	
110 1,3-Dichlorobenzene	146	9.471	9.467	0.004	96	38033	2.00	1.89	
111 4-Isopropyltoluene	119	9.493	9.493	0.000	97	57628	2.00	1.87	
112 1,4-Dichlorobenzene	146	9.568	9.565	0.003	90	42663	2.00	2.01	
114 n-Butylbenzene	91	9.898	9.898	0.000	98	52488	2.00	1.91	
115 1,2-Dichlorobenzene	146	9.925	9.921	0.004	92	34352	2.00	1.82	
116 1,2-Dibromo-3-Chloropropane	157	10.716	10.704	0.012	71	4088	2.00	2.09	M
118 1,2,4-Trichlorobenzene	180	11.529	11.525	0.004	90	16835	2.00	1.80	
119 Hexachlorobutadiene	225	11.671	11.668	0.003	93	9548	2.00	2.16	
120 Naphthalene	128	11.795	11.791	0.004	98	43486	2.00	1.87	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	89	18298	2.00	-0.8488	
S 143 1,3-Dichloropropene, Total	1				0		4.00	3.44	
S 142 Trihalomethanes, Total	1				0		8.00	7.62	
S 141 Xylenes, Total	106				0		4.00	3.52	
S 140 1,2-Dichloroethene, Total	1				0		4.00	3.82	
S 139 Total BTEX	1				0			9.13	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

Cal Dil Std_00214

Amount Added: 20.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 31-Jul-2023 08:51:05

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6576.D

Injection Date: 30-Jul-2023 18:37:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 19

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

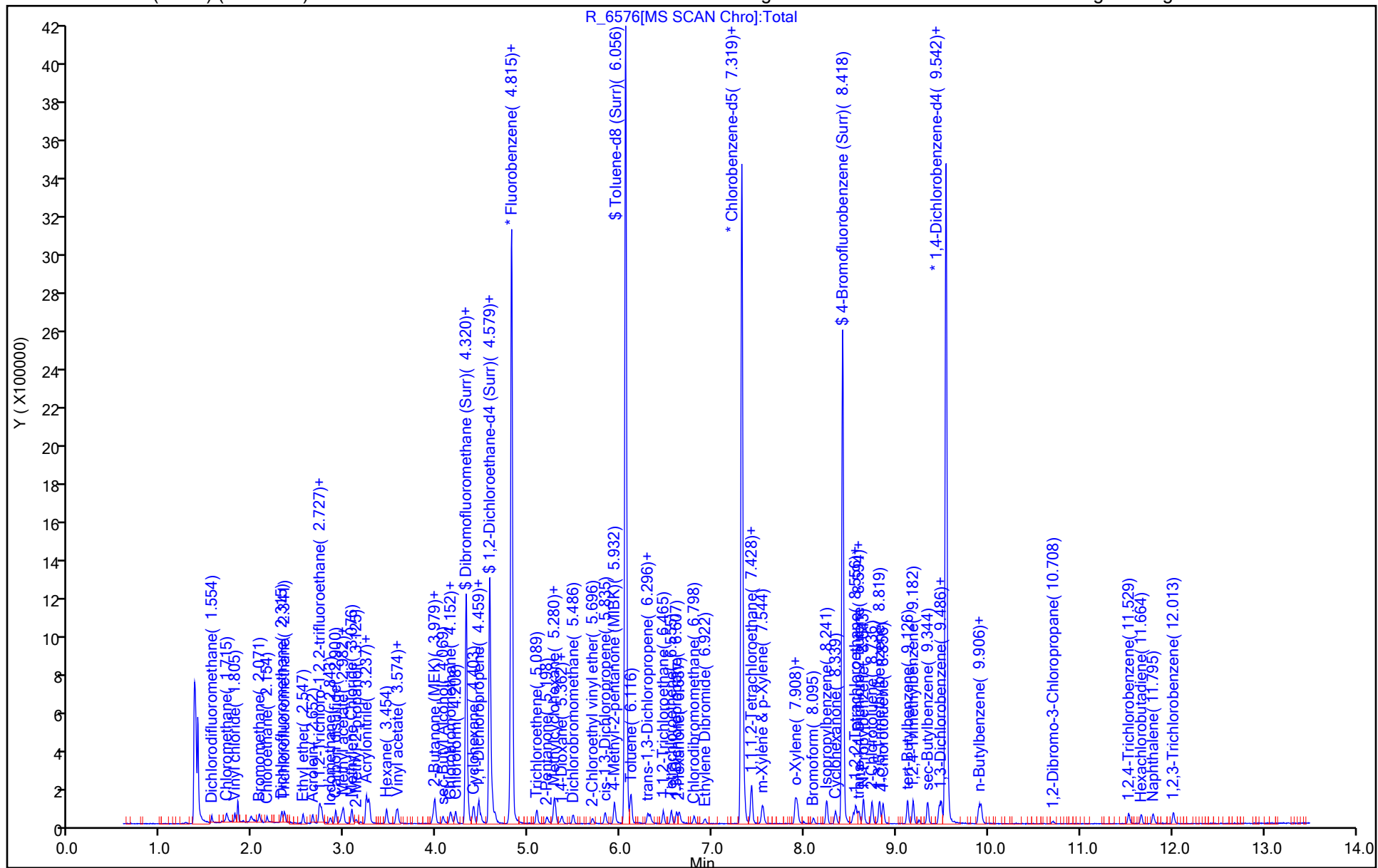
ALS Bottle#: 9

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



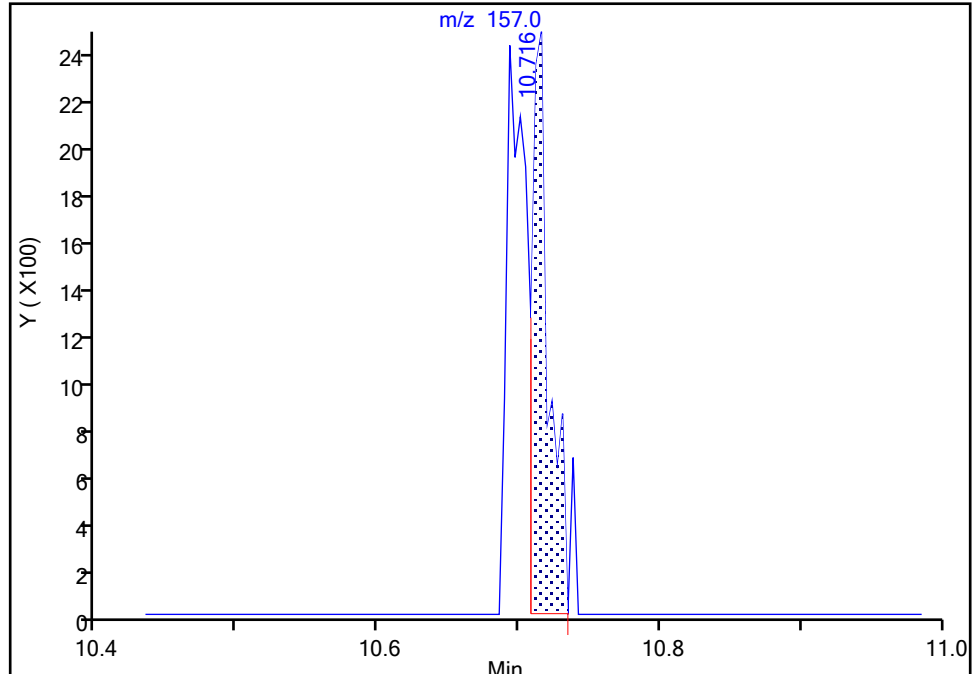
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6576.D
Injection Date: 30-Jul-2023 18:37:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 9 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

116 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

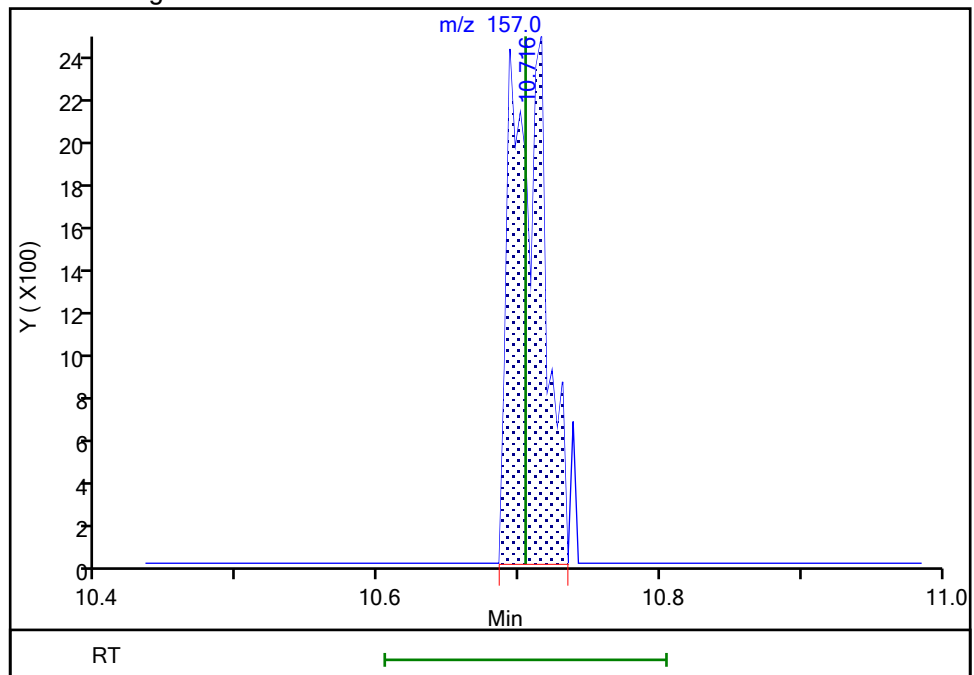
RT: 10.72
Area: 2036
Amount: 1.471945
Amount Units: ug/l

Processing Integration Results



RT: 10.72
Area: 4088
Amount: 2.089839
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:53:08 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 30-Jul-2023 18:58:30 ALS Bottle#: 10 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 1
 Misc. Info.: 280-0124001-020
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:51:06 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:57:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2130300	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	89	515326	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	789830	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	574971	50.0	51.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.579	4.579	0.000	0	660159	50.0	49.3	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	95	2249817	50.0	50.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.418	-0.004	84	787072	50.0	51.5	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	96	6696	1.00	0.7843	
10 Chloromethane	50	1.715	1.715	0.000	96	14329	1.00	0.6671	
11 Vinyl chloride	62	1.809	1.805	0.004	97	12004	1.00	0.6663	
13 Bromomethane	94	2.067	2.071	-0.004	87	8686	1.00	1.02	
14 Chloroethane	64	2.154	2.157	-0.003	96	7852	1.00	0.9352	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	98	18012	1.00	0.9115	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	96	11436	1.00	0.8012	
18 Ethyl ether	59	2.543	2.547	-0.004	97	8219	1.00	0.9198	
20 Acrolein	56	2.652	2.652	0.000	98	11446	9.88	7.64	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.723	2.723	0.000	53	4583	1.00	0.7759	M
22 1,1-Dichloroethene	96	2.731	2.727	0.004	92	6698	1.00	0.8148	
23 Acetone	43	2.750	2.746	0.004	99	51936	4.00	3.92	
25 Iodomethane	142	2.843	2.843	0.000	97	11142	1.00	0.9704	
26 Carbon disulfide	76	2.900	2.903	-0.003	100	32024	1.00	0.9839	
28 Methyl acetate	43	2.971	2.967	0.004	97	13331	2.00	1.53	
29 3-Chloro-1-propene	41	2.986	2.986	0.000	89	22225	1.00	1.09	
30 Methylene Chloride	84	3.076	3.076	0.000	96	10866	1.00	0.9766	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	89	7203	10.0	7.55	
32 Acrylonitrile	53	3.233	3.233	0.000	98	33096	10.0	7.74	
33 Methyl tert-butyl ether	73	3.259	3.256	0.003	89	21493	1.00	0.7952	M
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	96	9021	1.00	0.9211	
35 Hexane	57	3.451	3.454	-0.003	92	9556	1.00	0.7136	
37 Vinyl acetate	43	3.563	3.559	0.004	98	26510	2.00	2.14	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	95	19006	1.00	0.9258	
43 2-Butanone (MEK)	43	3.957	3.953	0.004	99	19181	4.00	3.59	M
45 cis-1,2-Dichloroethene	96	3.979	3.975	0.004	82	9468	1.00	0.8775	
46 2,2-Dichloropropane	77	3.987	3.983	0.004	73	10373	1.00	0.7154	
48 sec-Butyl Alcohol	45	4.069	4.065	0.004	94	12099	24.0	25.0	
50 Chlorobromomethane	128	4.144	4.148	-0.004	95	4450	1.00	0.9806	
51 Tetrahydrofuran	42	4.163	4.163	0.000	91	5160	2.00	1.48	
52 Chloroform	83	4.208	4.208	0.000	96	16225	1.00	0.8914	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	62	11578	1.00	0.8119	
54 Cyclohexane	56	4.399	4.403	-0.004	90	12789	1.00	0.7197	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	91	11732	1.00	0.8143	
56 Carbon tetrachloride	117	4.455	4.463	-0.008	90	9895	1.00	0.8112	M
57 Isobutyl alcohol	41	4.485	4.478	0.007	39	7066	25.0	27.3	
58 Benzene	78	4.601	4.601	0.000	96	36412	1.00	0.8538	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	94	14138	1.00	0.9680	
63 n-Heptane	43	4.796	4.793	0.003	32	9946	1.00	0.7836	M
65 Trichloroethene	95	5.089	5.089	0.000	91	7893	1.00	0.7938	
66 2-Pentanone	43	5.201	5.194	0.007	96	14749	3.20	3.40	
67 Methylcyclohexane	55	5.276	5.280	-0.004	84	9224	1.00	0.7203	
68 1,2-Dichloropropane	63	5.287	5.291	-0.004	82	9878	1.00	0.8308	
70 1,4-Dioxane	88	5.344	5.344	0.000	1	1175	20.0	18.8	
71 Dibromomethane	93	5.366	5.362	0.004	85	5609	1.00	0.8773	
72 Dichlorobromomethane	83	5.486	5.486	0.000	98	12059	1.00	0.8624	
74 2-Chloroethyl vinyl ether	63	5.692	5.689	0.003	85	3965	1.00	1.03	M
75 cis-1,3-Dichloropropene	75	5.835	5.831	0.004	94	13417	1.00	0.7913	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	98	31680	4.00	4.15	
77 Toluene	91	6.112	6.112	0.000	97	38437	1.00	0.8705	
78 trans-1,3-Dichloropropene	75	6.303	6.296	0.007	96	12761	1.00	0.8175	
79 Ethyl methacrylate	69	6.326	6.322	0.004	95	6808	1.00	1.05	
80 1,1,2-Trichloroethane	97	6.472	6.465	0.007	82	7404	1.00	0.8480	M
81 Tetrachloroethene	164	6.555	6.555	0.000	93	5656	1.00	0.8348	M
82 1,3-Dichloropropane	76	6.611	6.611	0.000	93	13647	1.00	0.8495	
83 2-Hexanone	43	6.641	6.633	0.008	97	19174	4.00	4.33	M
84 Chlorodibromomethane	129	6.806	6.802	0.004	83	8197	1.00	0.8558	
86 Ethylene Dibromide	107	6.914	6.918	-0.004	96	6950	1.00	0.7969	
87 1-Chlorohexane	91	7.319	7.312	0.007	33	9538	0.8000	0.7361	M
88 Chlorobenzene	112	7.345	7.349	-0.004	93	25339	1.00	0.9399	
89 1,1,1,2-Tetrachloroethane	131	7.420	7.420	0.000	81	8061	1.00	0.8856	
90 Ethylbenzene	106	7.432	7.424	0.008	98	11536	1.00	0.8103	
91 m-Xylene & p-Xylene	106	7.548	7.544	0.004	0	13969	1.00	0.8089	M
92 o-Xylene	106	7.904	7.904	0.000	94	12741	1.00	0.7624	
93 Styrene	104	7.927	7.919	0.008	74	19790	1.00	0.7143	
94 Bromoform	173	8.099	8.099	0.000	89	5199	1.00	0.8390	
95 Isopropylbenzene	105	8.245	8.241	0.004	97	29910	1.00	0.7463	
97 Cyclohexanone	55	8.339	8.339	0.000	90	11429	30.0	31.6	
98 1,1,2,2-Tetrachloroethane	83	8.534	8.534	0.000	90	10358	1.00	0.8804	
99 Bromobenzene	156	8.560	8.560	0.000	95	9089	1.00	0.9058	
100 trans-1,4-Dichloro-2-butene	53	8.586	8.575	0.011	60	2807	1.00	0.7886	M
101 1,2,3-Trichloropropane	110	8.598	8.594	0.004	81	1881	1.00	0.9493	
102 N-Propylbenzene	120	8.646	8.643	0.004	99	8665	1.00	0.7832	
103 2-Chlorotoluene	126	8.736	8.732	0.004	94	8891	1.00	0.8932	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	96	25247	1.00	0.7583	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.856	8.852	0.004	98	8209	1.00	0.7955	M
106 tert-Butylbenzene	119	9.126	9.122	0.004	94	21313	1.00	0.7841	
107 1,2,4-Trimethylbenzene	105	9.190	9.182	0.008	98	24869	1.00	1.01	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	5474	1.00	0.7149	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	96	18040	1.00	0.9496	
111 4-Isopropyltoluene	119	9.493	9.493	0.000	96	22544	1.00	1.00	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	89	20615	1.00	1.03	
114 n-Butylbenzene	91	9.898	9.898	0.000	97	18584	1.00	1.00	
115 1,2-Dichlorobenzene	146	9.921	9.921	0.000	94	15990	1.00	0.8969	
116 1,2-Dibromo-3-Chloropropane	157	10.689	10.704	-0.015	1	1304	1.00	0.7046	M
118 1,2,4-Trichlorobenzene	180	11.529	11.525	0.004	89	8022	1.00	0.9056	
119 Hexachlorobutadiene	225	11.660	11.668	-0.008	87	4083	1.00	0.9777	M
120 Naphthalene	128	11.803	11.791	0.012	96	18457	1.00	0.9443	M
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	90	8231	1.00	-2.71	M
S 143 1,3-Dichloropropene, Total	1				0		2.00	1.61	
S 142 Trihalomethanes, Total	1				0		4.00	3.45	
S 141 Xylenes, Total	106				0		2.00	1.57	
S 140 1,2-Dichloroethene, Total	1				0		2.00	1.80	
S 139 Total BTEX	1				0			4.11	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

Cal Dil Std_00214

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D

Injection Date: 30-Jul-2023 18:58:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

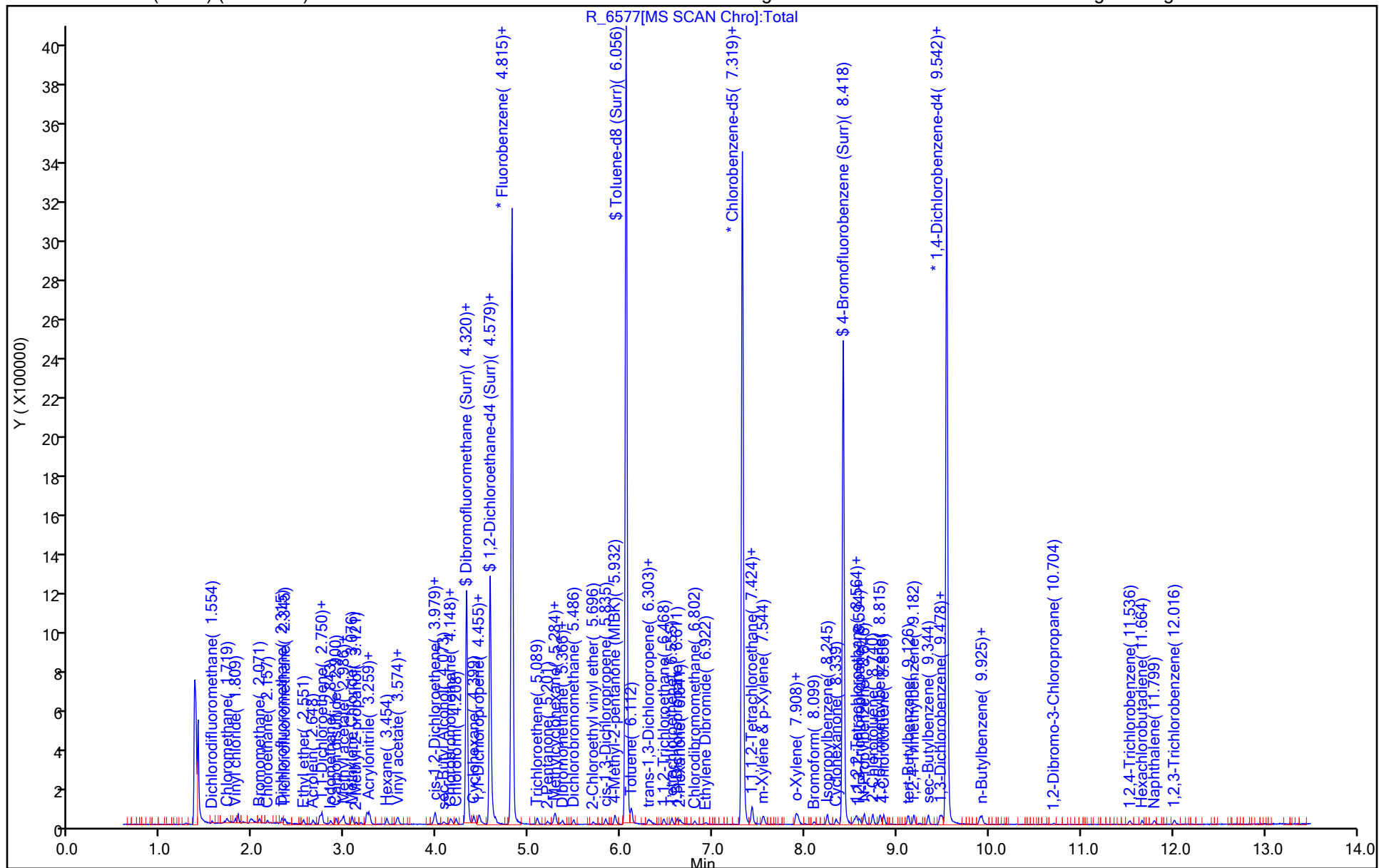
ALS Bottle#: 10

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

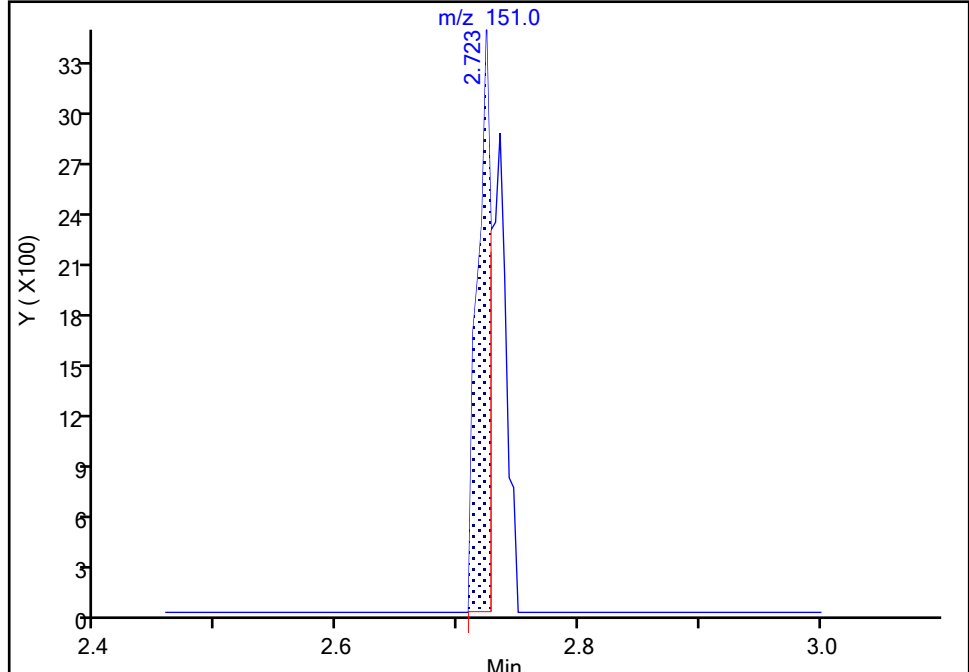
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Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

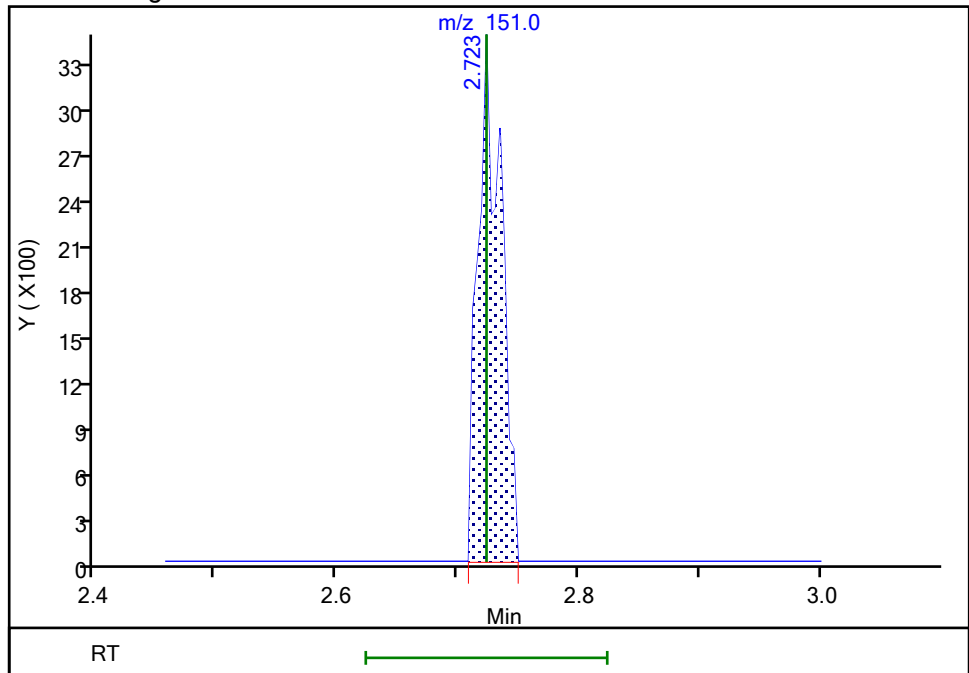
RT: 2.72
Area: 2625
Amount: 0.466257
Amount Units: ug/l

Processing Integration Results



RT: 2.72
Area: 4583
Amount: 0.775883
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:53:41 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

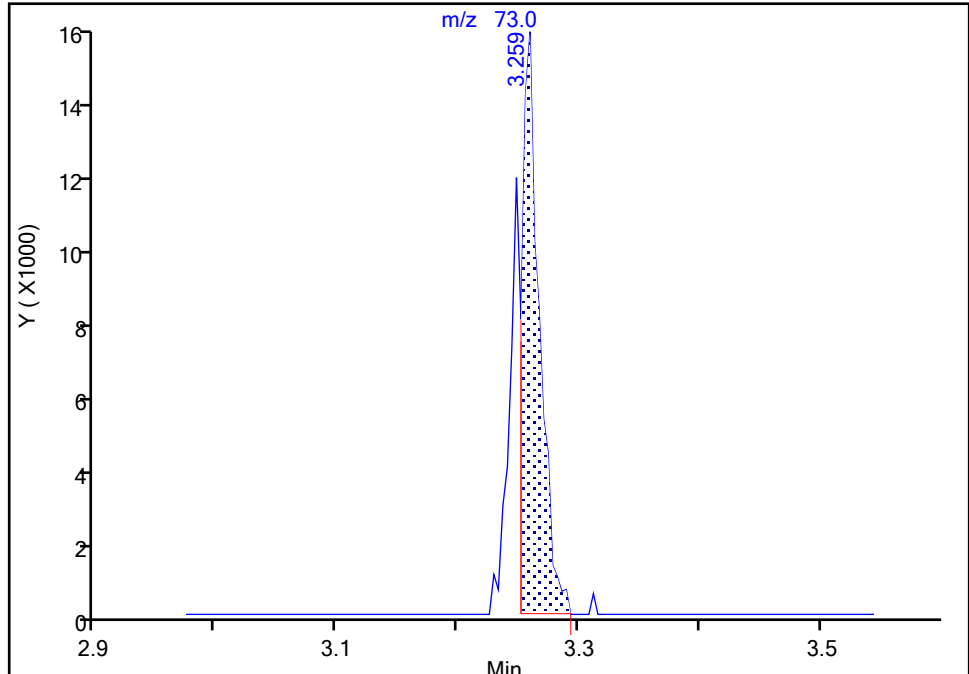
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

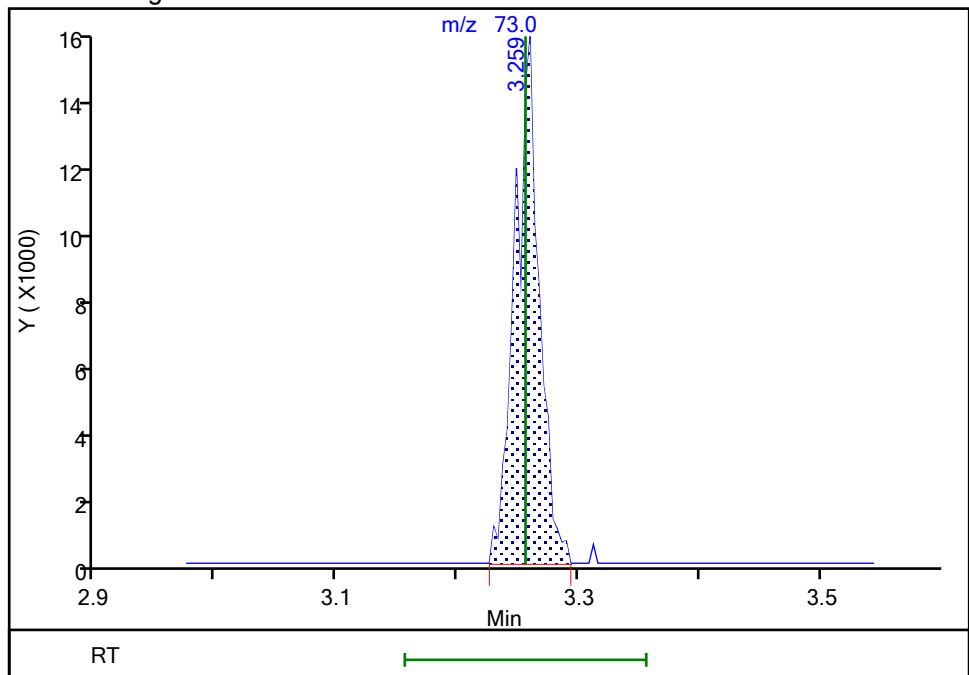
RT: 3.26
Area: 15351
Amount: 0.810646
Amount Units: ug/l

Processing Integration Results



RT: 3.26
Area: 21493
Amount: 0.795242
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:53:58 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

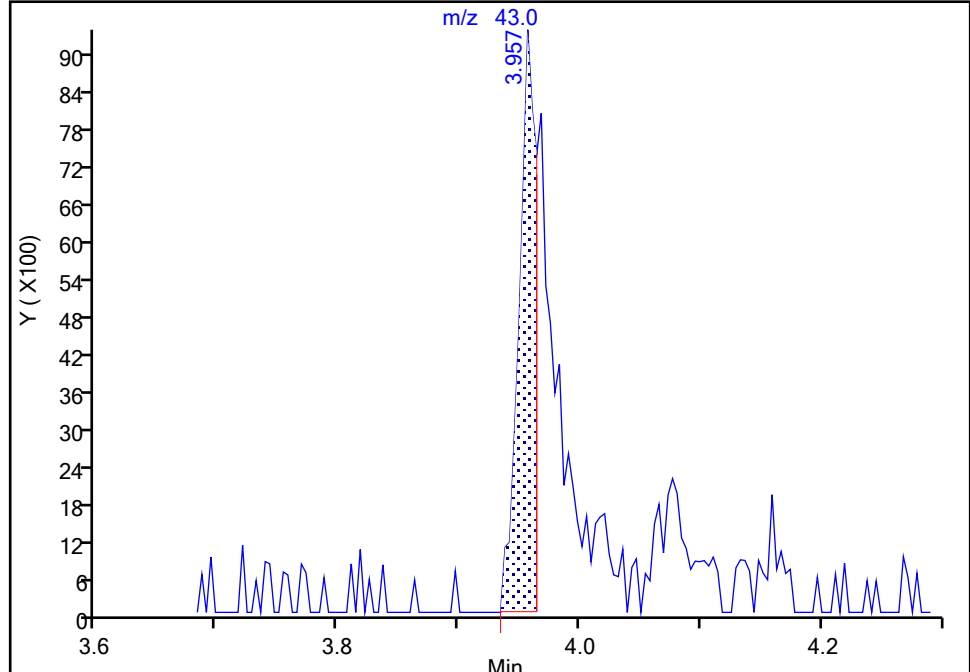
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Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

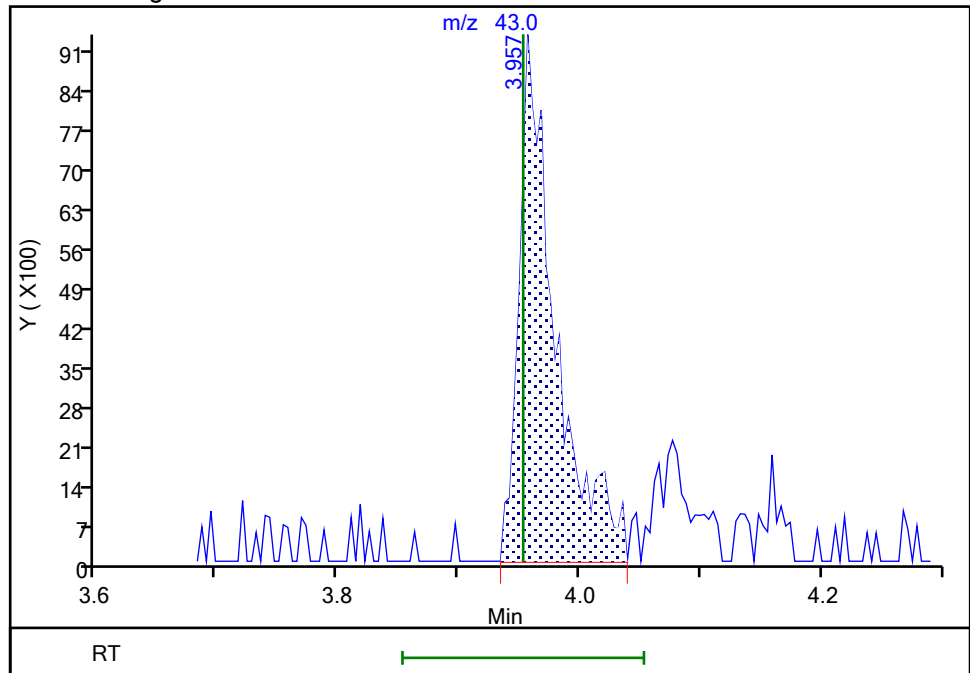
RT: 3.96
Area: 9193
Amount: 3.831590
Amount Units: ug/l

Processing Integration Results



RT: 3.96
Area: 19181
Amount: 3.585353
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:54:12 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

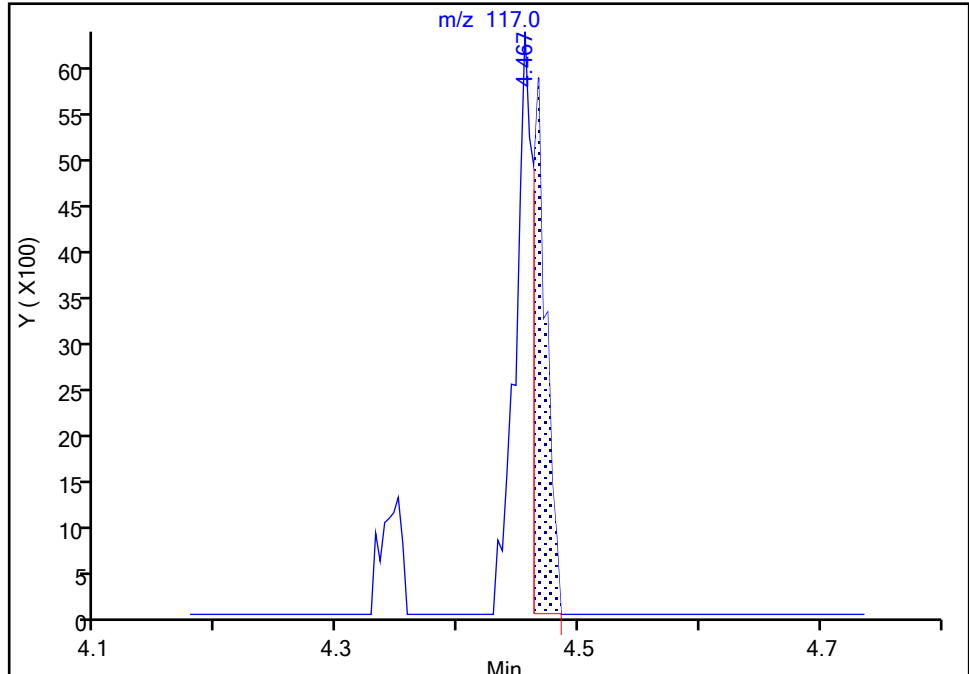
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Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

56 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

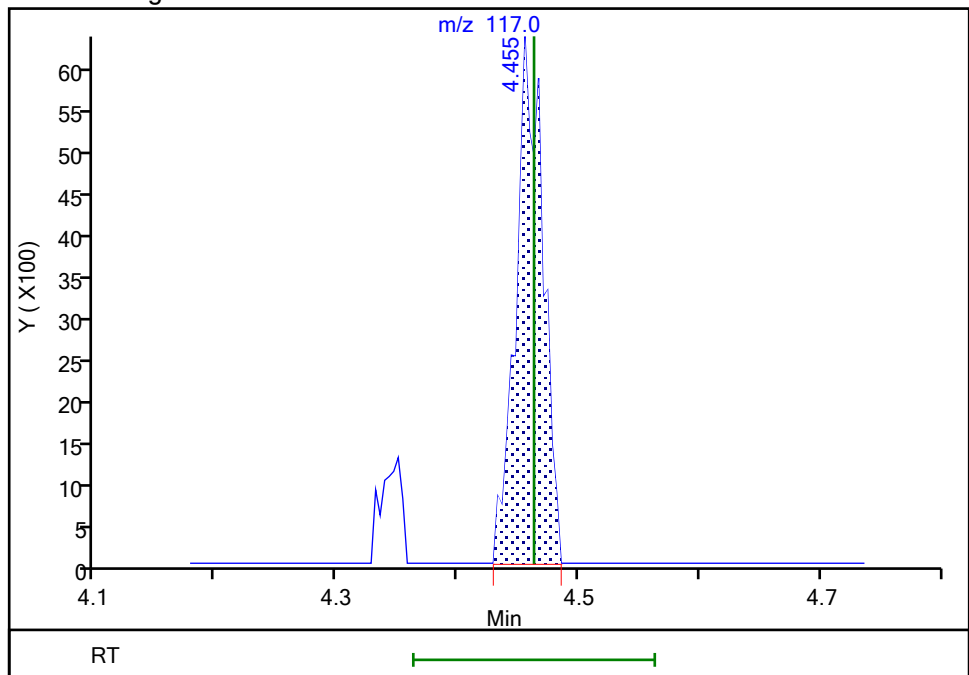
RT: 4.47
Area: 4416
Amount: 0.383671
Amount Units: ug/l

Processing Integration Results



RT: 4.46
Area: 9895
Amount: 0.811229
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:54:27 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D

Injection Date: 30-Jul-2023 18:58:30

Instrument ID: VMS_R1

Lims ID: ic

Client ID:

Operator ID: bustillose

ALS Bottle#:

10

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

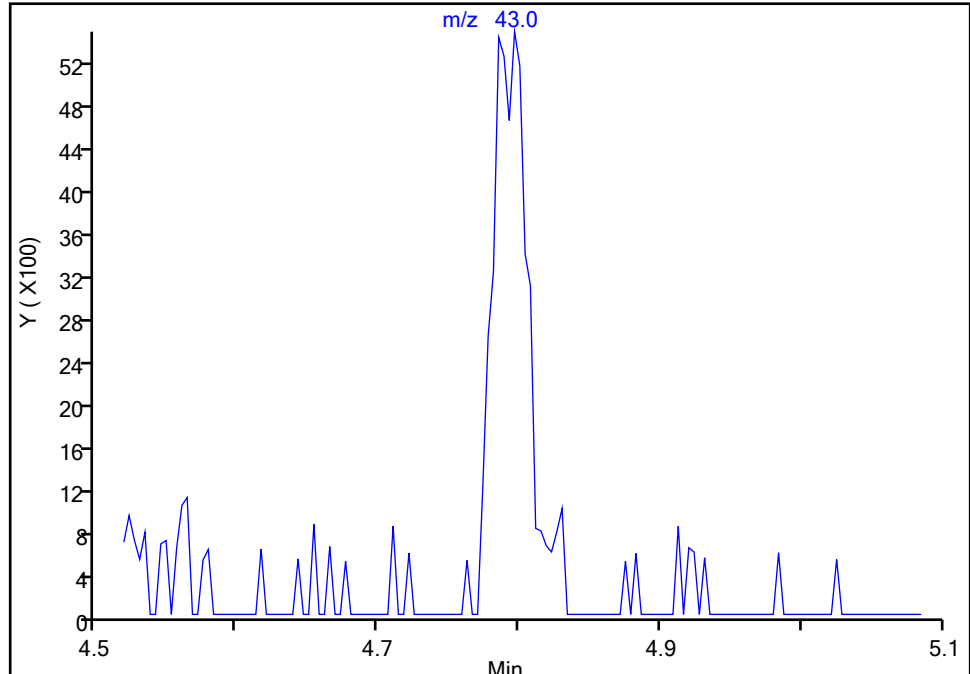
63 n-Heptane, CAS: 142-82-5

Signal: 1

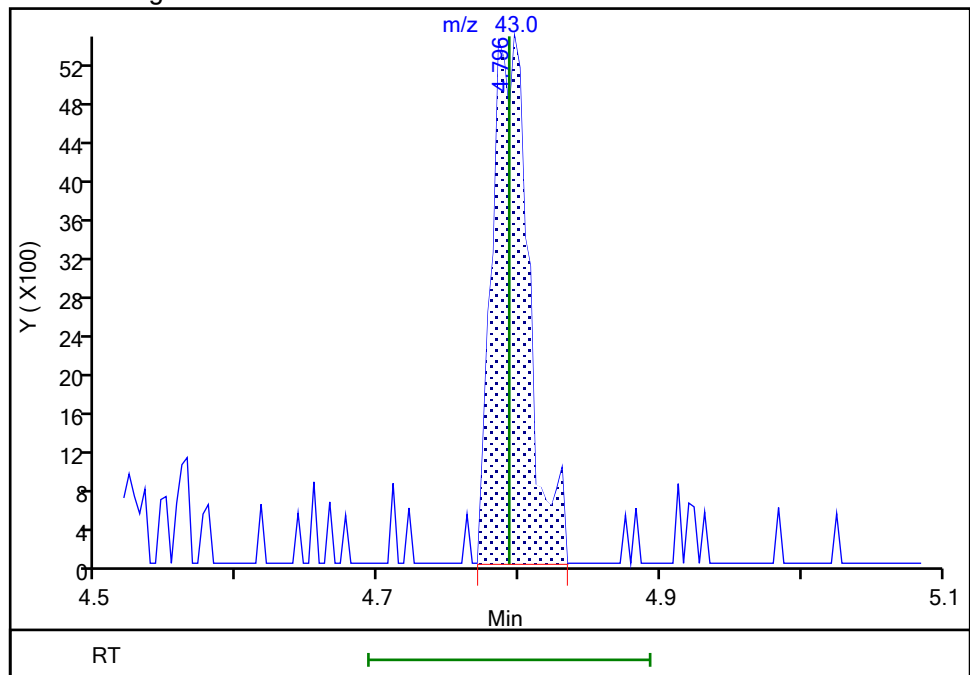
Not Detected

Expected RT: 4.79

Processing Integration Results



Manual Integration Results



RT: 4.80

Area: 9946

Amount: 0.783553

Amount Units: ug/l

Reviewer: AF7X, 31-Jul-2023 05:54:42 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

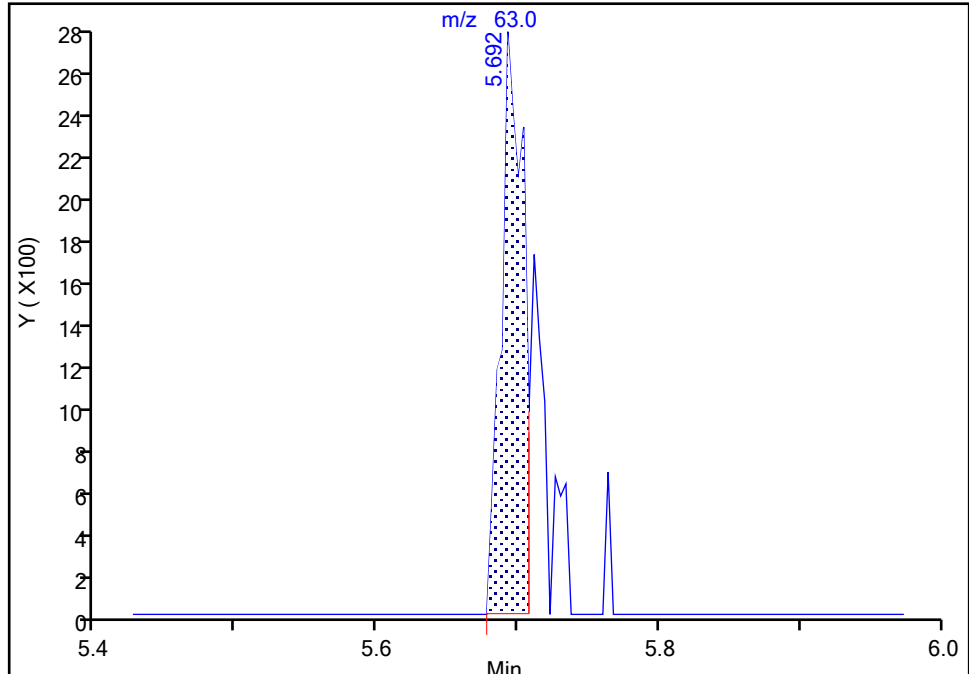
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Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

74 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

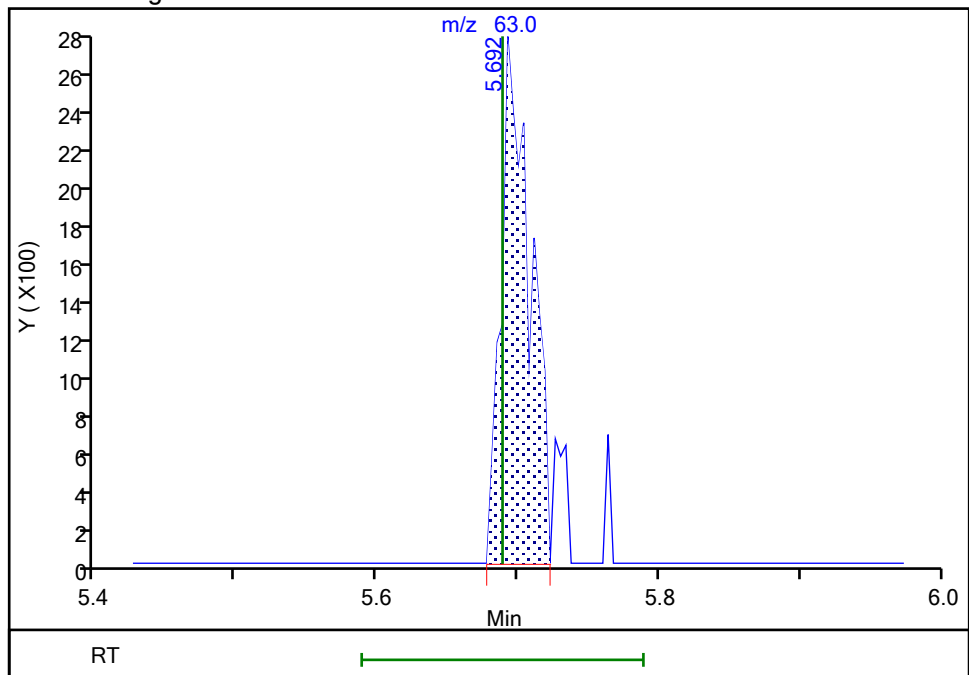
RT: 5.69
Area: 3052
Amount: 0.877614
Amount Units: ug/l

Processing Integration Results



RT: 5.69
Area: 3965
Amount: 1.032716
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:55:00 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

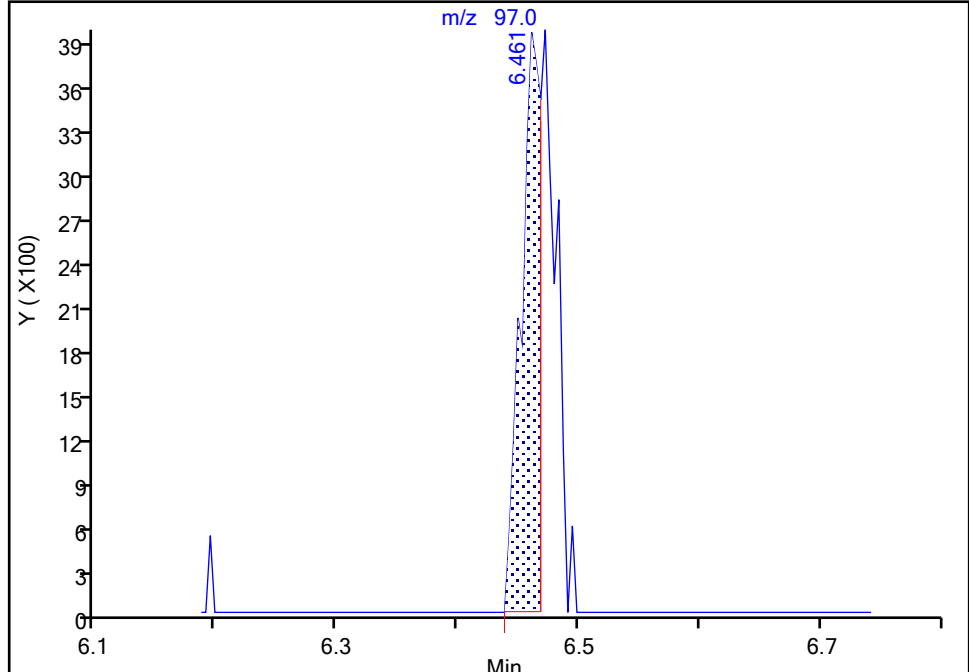
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Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

80 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

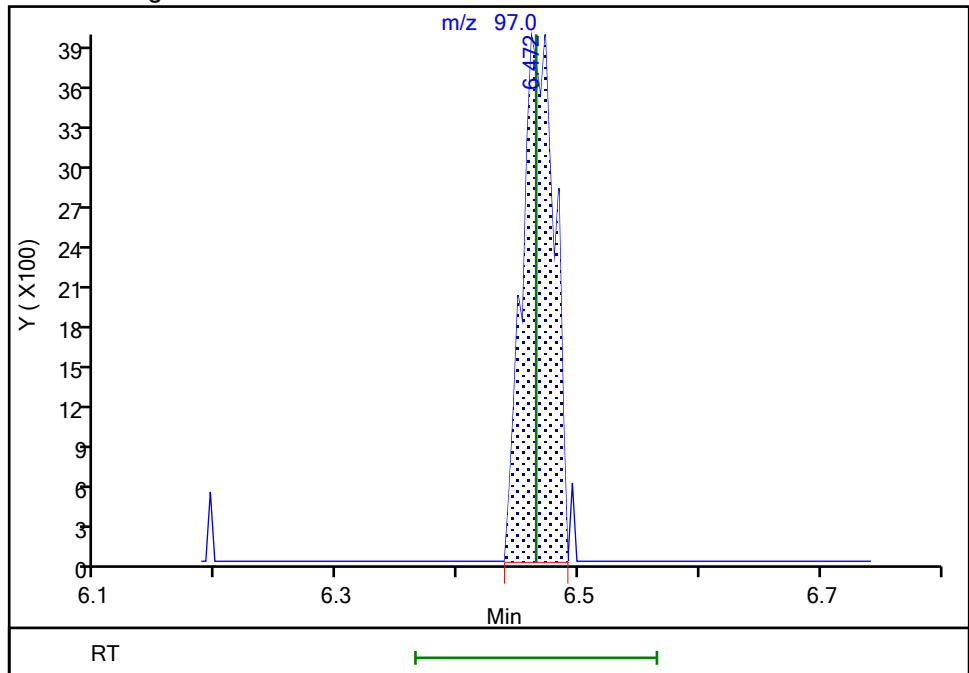
RT: 6.46
Area: 4449
Amount: 0.526765
Amount Units: ug/l

Processing Integration Results



RT: 6.47
Area: 7404
Amount: 0.848037
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:55:17 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D

Injection Date: 30-Jul-2023 18:58:30

Instrument ID: VMS_R1

Lims ID: ic

Client ID:

Operator ID: bustillose

ALS Bottle#:

10

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

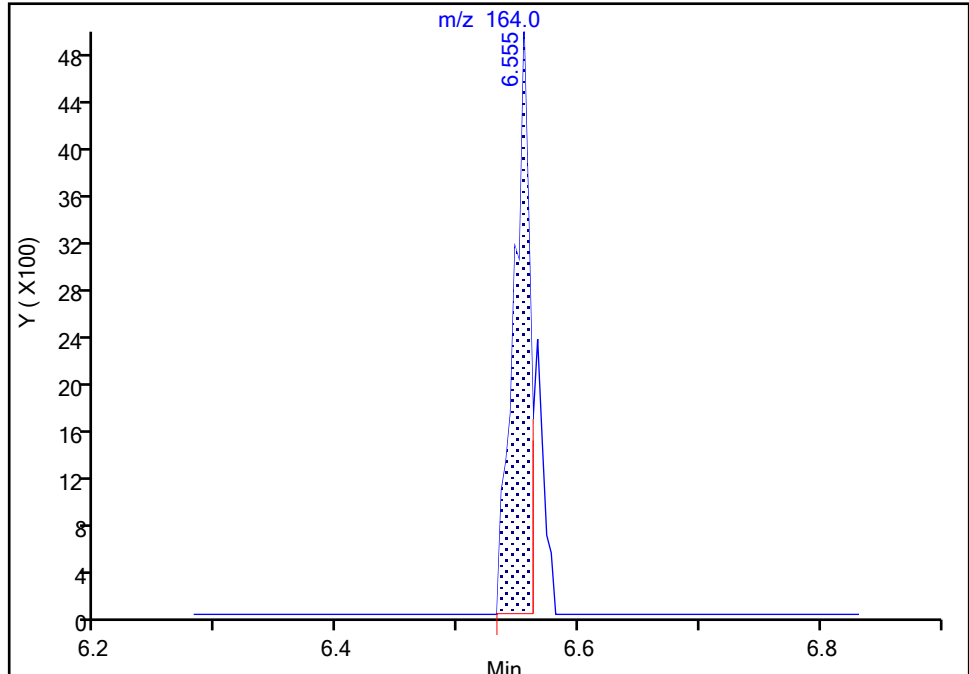
MS SCAN

81 Tetrachloroethene, CAS: 127-18-4

Signal: 1

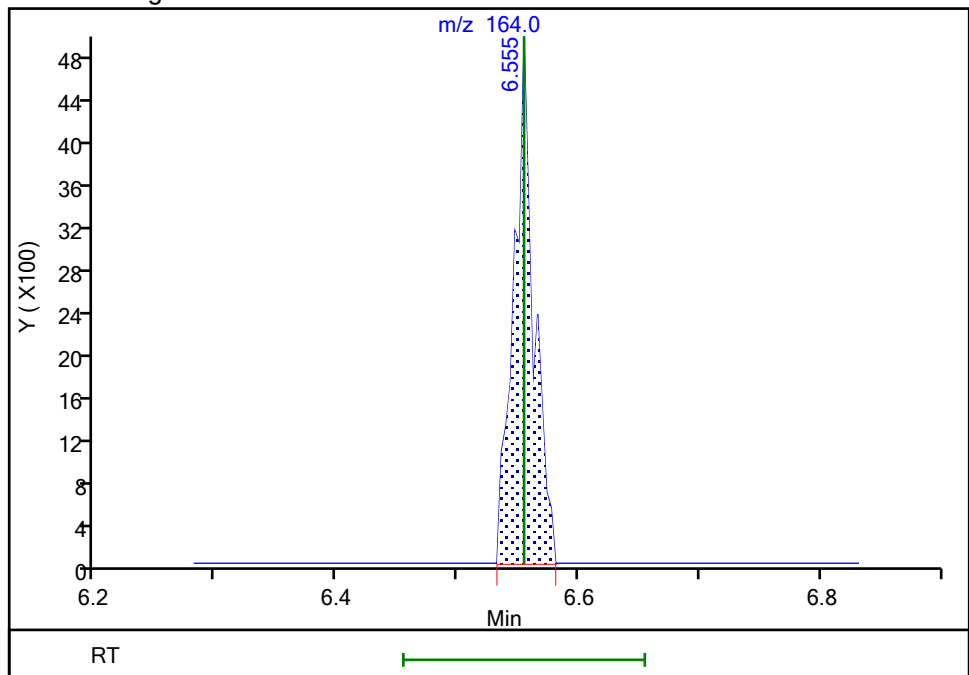
RT: 6.55
Area: 4530
Amount: 0.676774
Amount Units: ug/l

Processing Integration Results



RT: 6.55
Area: 5656
Amount: 0.834815
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:55:27 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

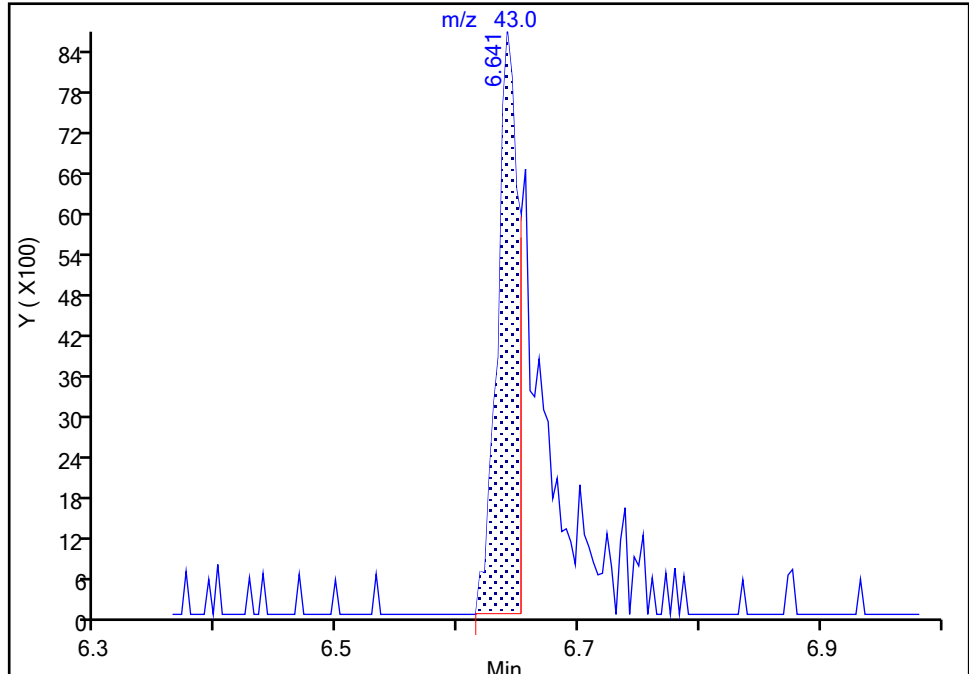
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Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

83 2-Hexanone, CAS: 591-78-6

Signal: 1

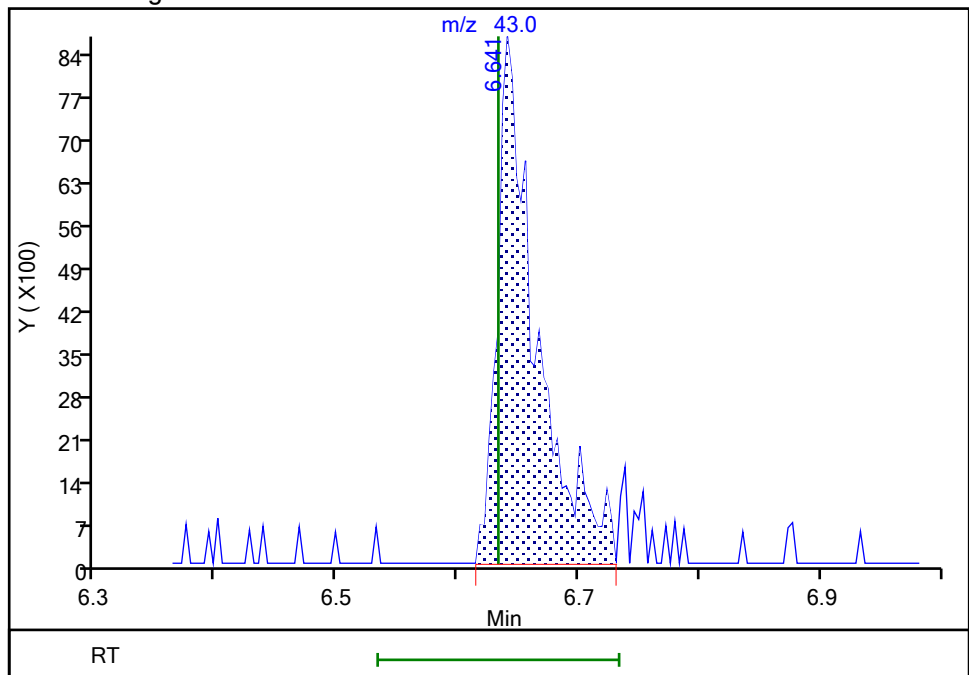
RT: 6.64
Area: 10455
Amount: 3.646466
Amount Units: ug/l

Processing Integration Results



RT: 6.64
Area: 19174
Amount: 4.326194
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:55:41 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D

Injection Date: 30-Jul-2023 18:58:30

Instrument ID: VMS_R1

Lims ID: ic

Client ID:

Operator ID: bustillose

ALS Bottle#:

10

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

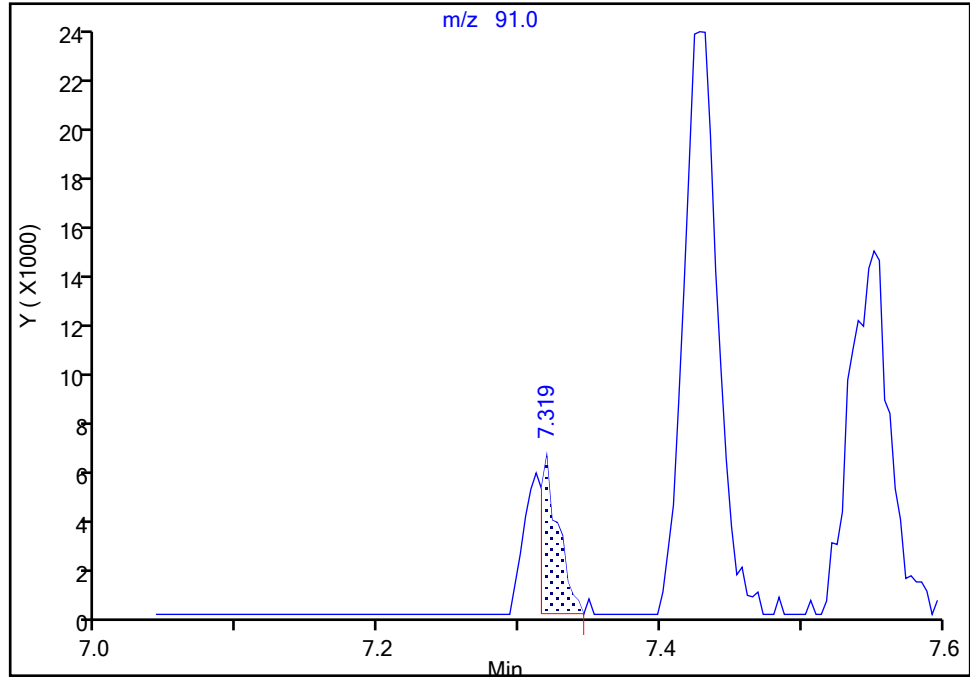
MS SCAN

87 1-Chlorohexane, CAS: 544-10-5

Signal: 1

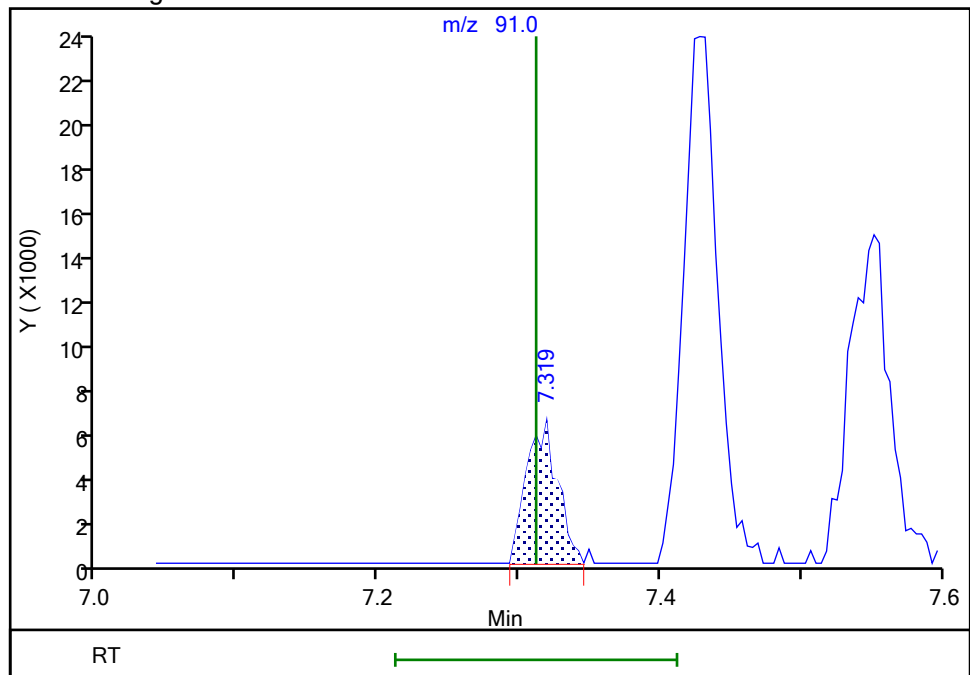
RT: 7.32
Area: 5477
Amount: 0.427258
Amount Units: ug/l

Processing Integration Results



RT: 7.32
Area: 9538
Amount: 0.736057
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:55:51 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

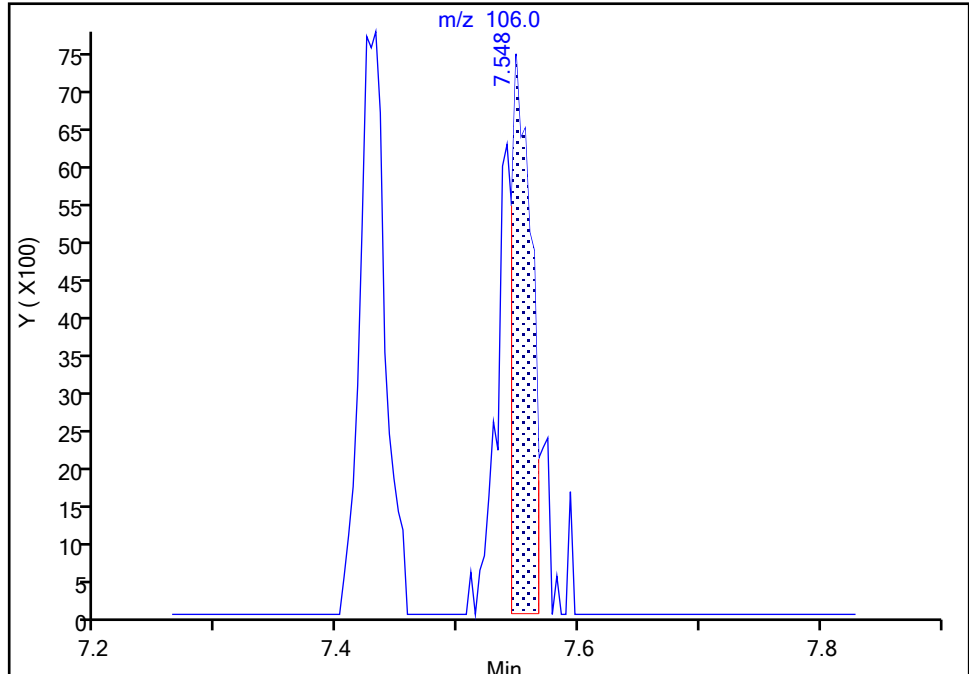
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

91 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

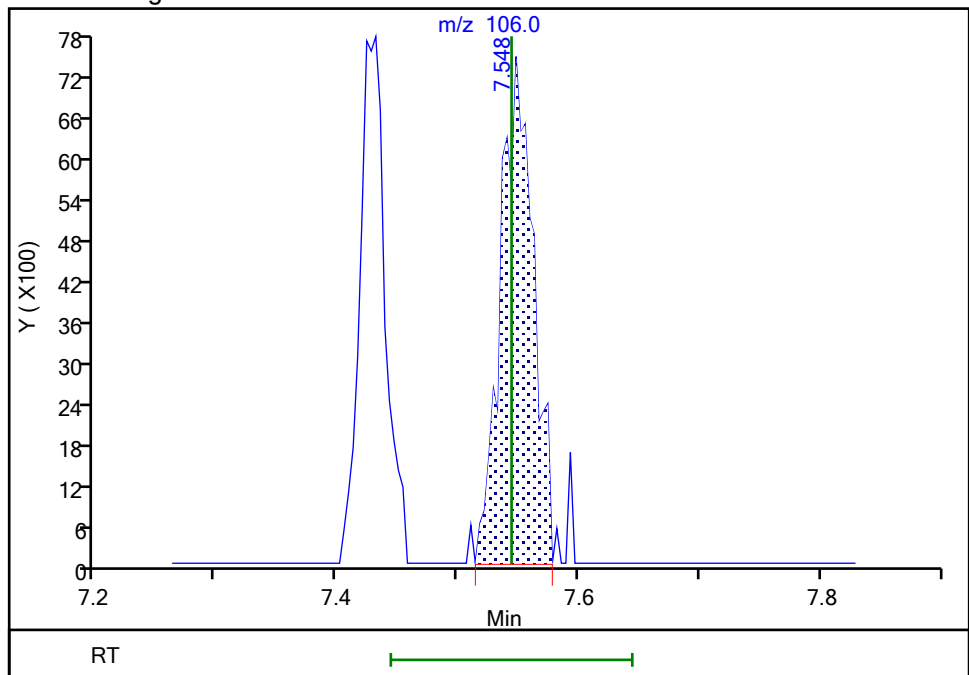
RT: 7.55
Area: 8471
Amount: 0.667369
Amount Units: ug/l

Processing Integration Results



RT: 7.55
Area: 13969
Amount: 0.808853
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:56:04 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

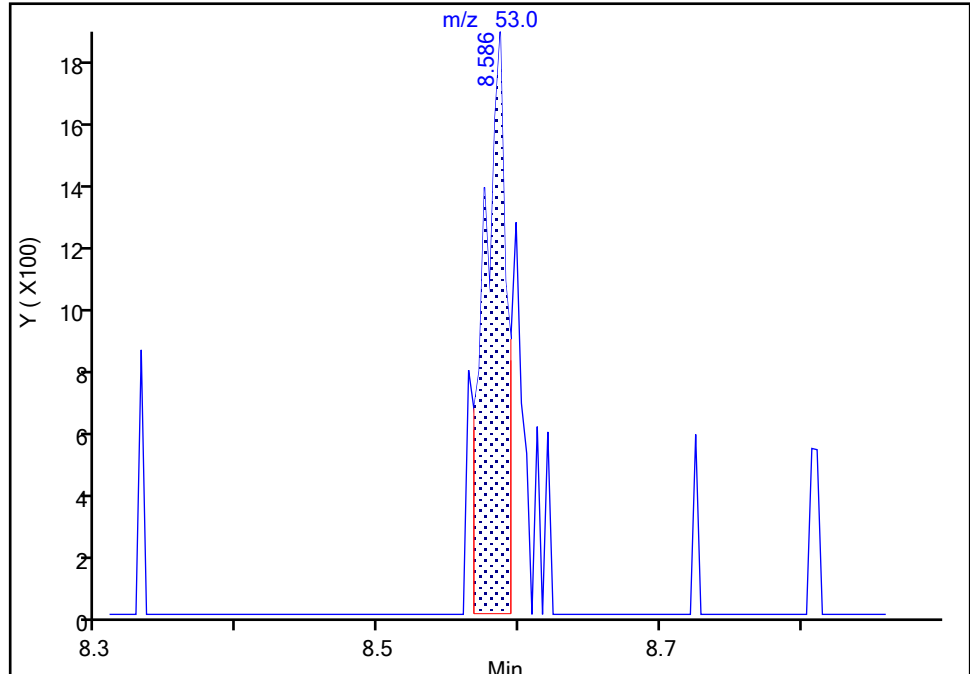
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

100 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

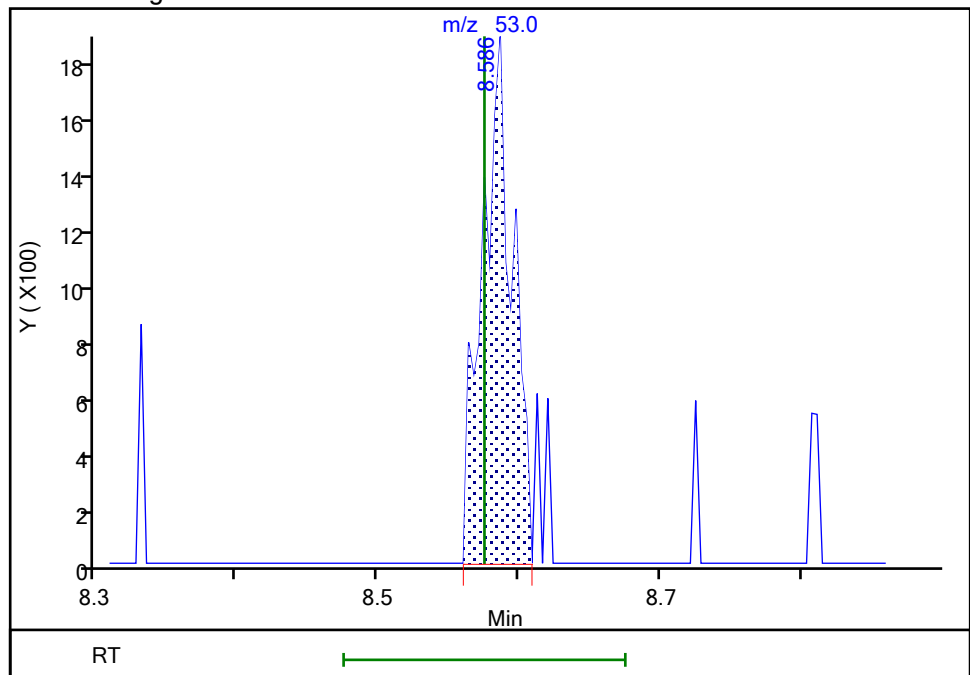
RT: 8.59
Area: 2081
Amount: 0.997898
Amount Units: ug/l

Processing Integration Results



RT: 8.59
Area: 2807
Amount: 0.788650
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:56:27 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

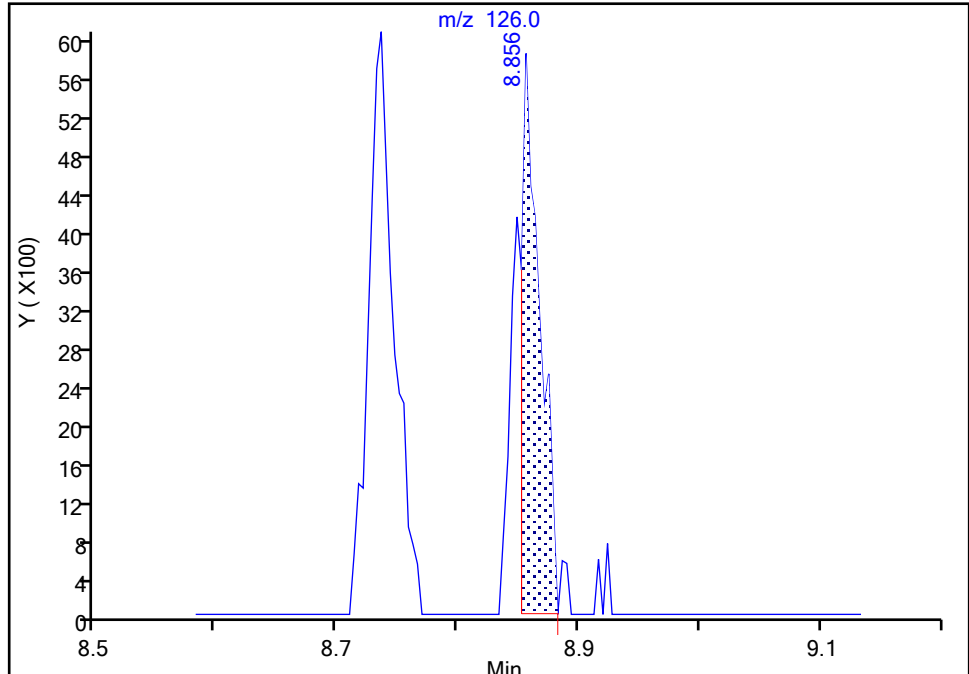
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

105 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

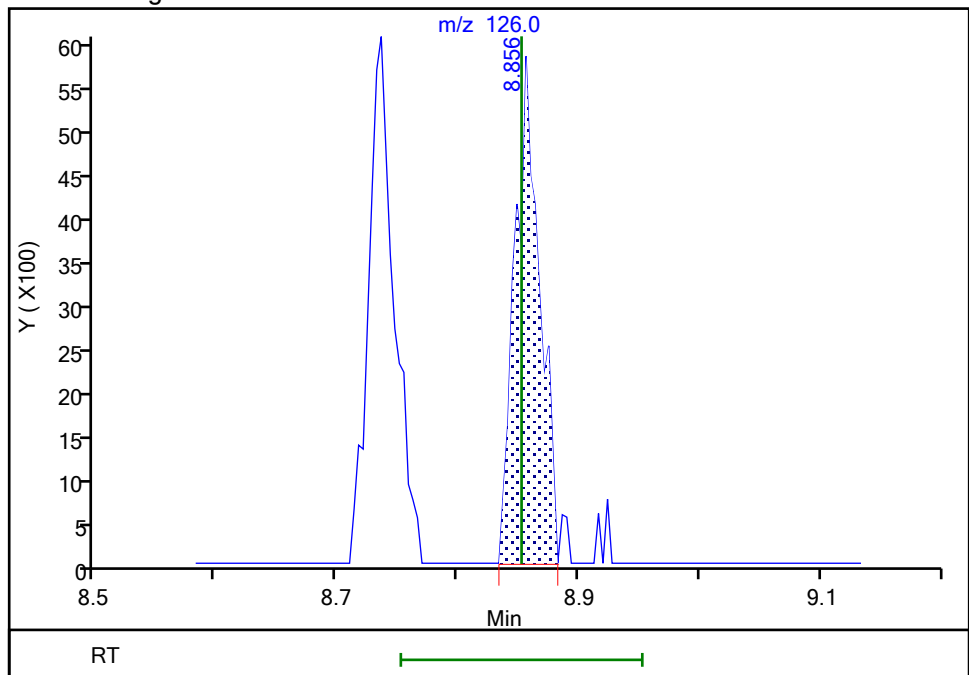
RT: 8.86
Area: 5997
Amount: 0.672601
Amount Units: ug/l

Processing Integration Results



RT: 8.86
Area: 8209
Amount: 0.795481
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:56:47 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

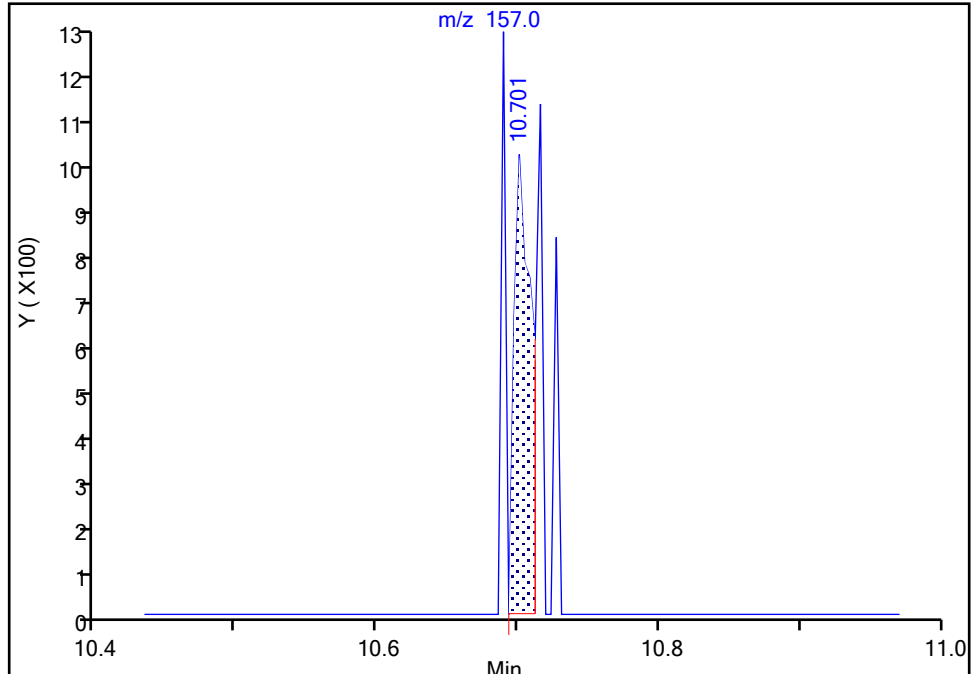
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

116 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8
Signal: 1

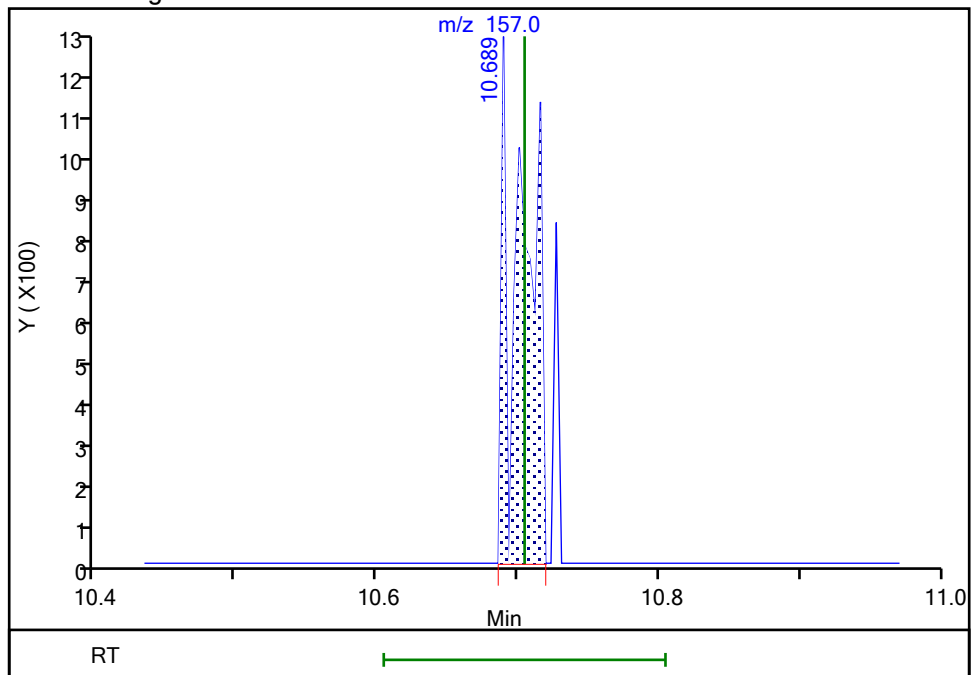
RT: 10.70
Area: 797
Amount: 0.727812
Amount Units: ug/l

Processing Integration Results



RT: 10.69
Area: 1304
Amount: 0.704622
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:57:04 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

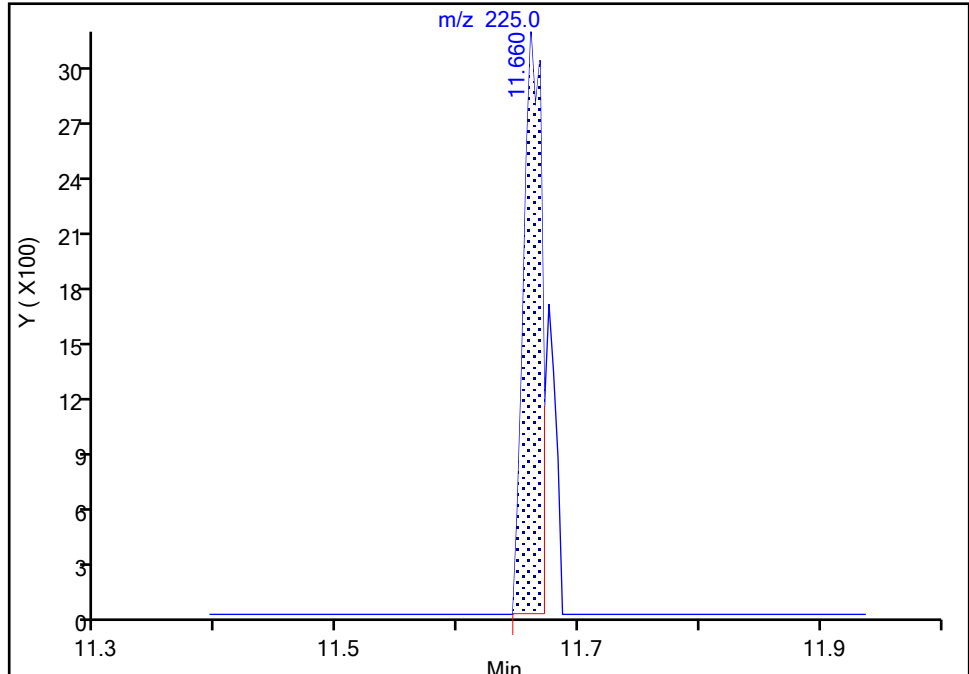
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

119 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

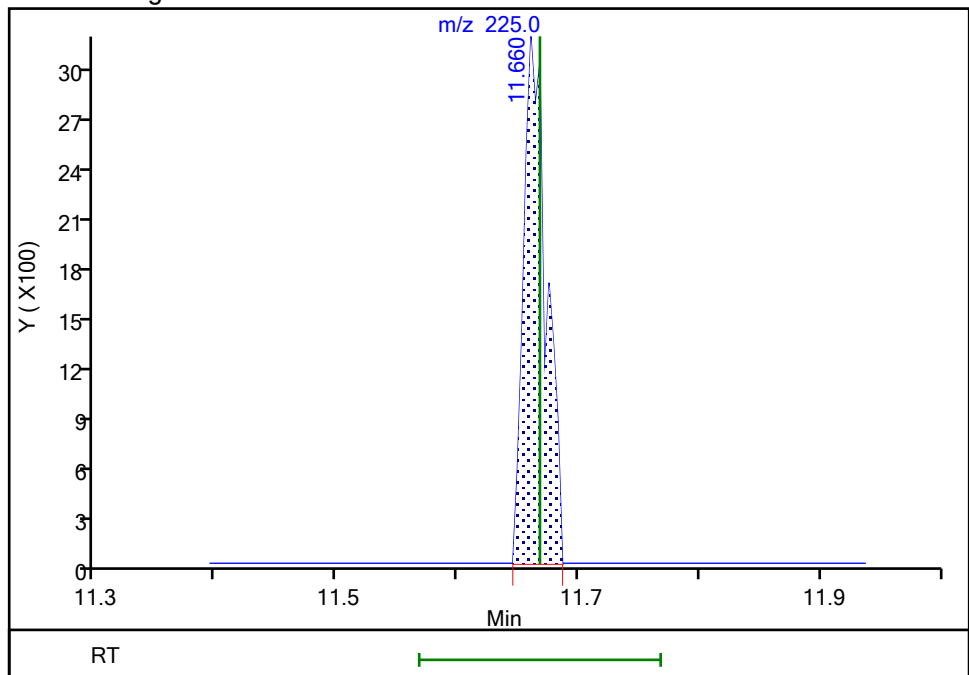
RT: 11.66
Area: 3223
Amount: 0.792179
Amount Units: ug/l

Processing Integration Results



RT: 11.66
Area: 4083
Amount: 0.977723
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:57:14 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver

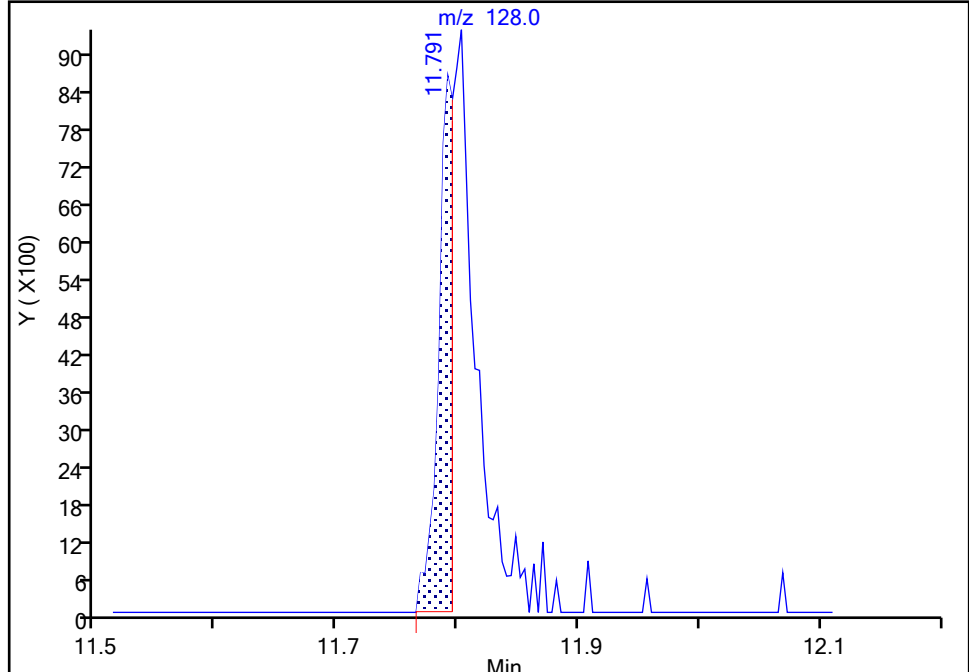
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

120 Naphthalene, CAS: 91-20-3

Signal: 1

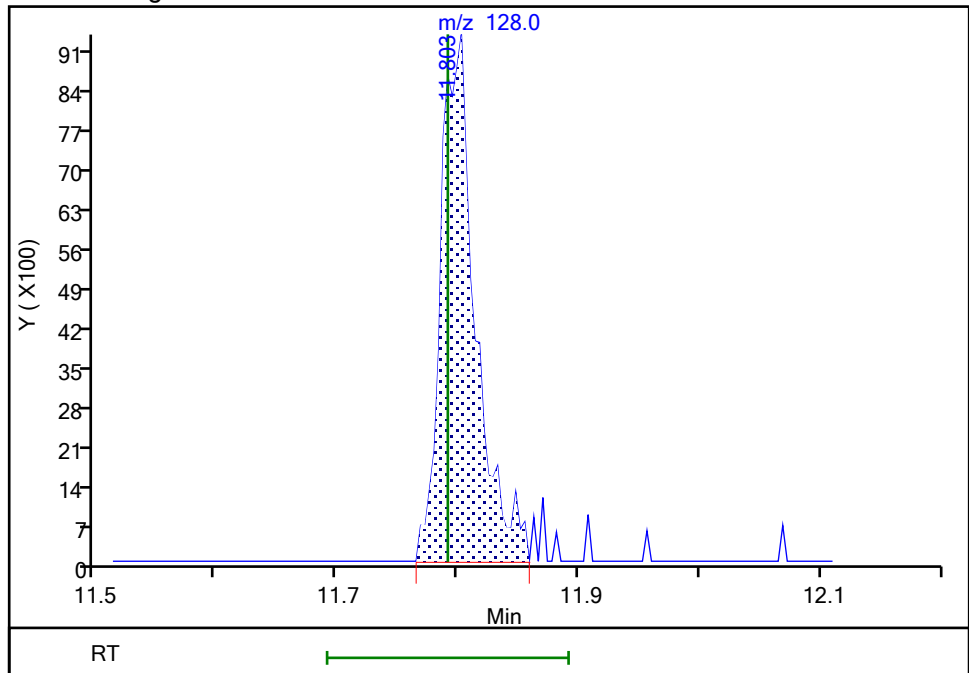
RT: 11.79
Area: 7334
Amount: 1.362161
Amount Units: ug/l

Processing Integration Results



RT: 11.80
Area: 18457
Amount: 0.944330
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:57:23 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

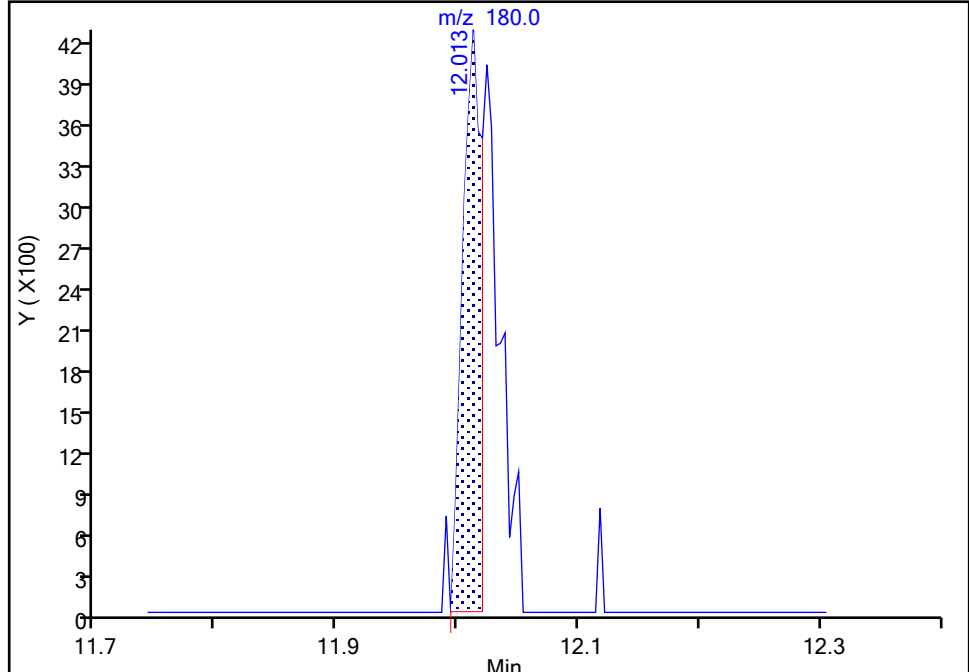
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6577.D
Injection Date: 30-Jul-2023 18:58:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 10 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

121 1,2,3-Trichlorobenzene, CAS: 87-61-6
Signal: 1

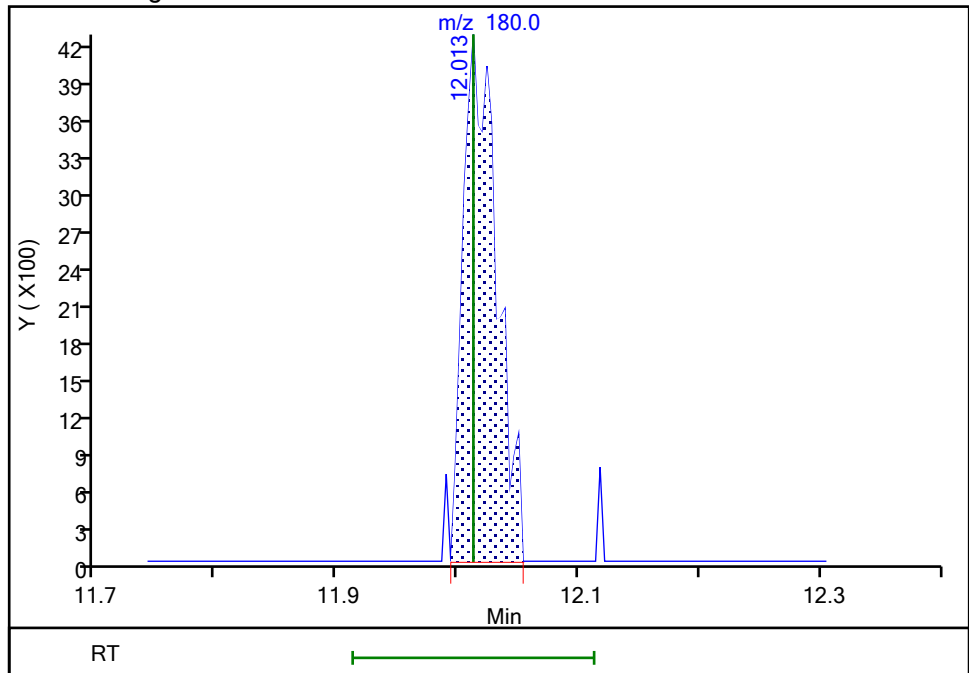
RT: 12.01
Area: 4639
Amount: 0.682825
Amount Units: ug/l

Processing Integration Results



RT: 12.01
Area: 8231
Amount: -2.711739
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:57:31 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Lims ID: ic
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 30-Jul-2023 19:19:30 ALS Bottle#: 11 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 0.5
 Misc. Info.: 280-0124001-021
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 08:51:08 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 05:59:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	2022878	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	492571	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	97	731522	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	540798	50.0	50.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.579	4.579	0.000	0	627064	50.0	49.4	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2158795	50.0	50.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.418	-0.004	83	732641	50.0	51.7	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	97	3854	0.5000	0.5268	
10 Chloromethane	50	1.715	1.715	0.000	96	8969	0.5000	0.3641	
11 Vinyl chloride	62	1.805	1.805	0.000	89	6399	0.5000	0.2595	
13 Bromomethane	94	2.071	2.071	0.000	88	4545	0.5000	0.5619	
14 Chloroethane	64	2.154	2.157	-0.003	1	3797	0.5000	0.4763	
15 Dichlorofluoromethane	67	2.315	2.315	0.000	95	9136	0.5000	0.4869	
16 Trichlorofluoromethane	101	2.349	2.345	0.004	98	6718	0.5000	0.4957	
18 Ethyl ether	59	2.551	2.547	0.004	74	2801	0.5000	0.3301	
20 Acrolein	56	2.656	2.652	0.004	92	5625	4.94	3.95	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.720	2.723	-0.003	64	2551	0.5000	0.4548	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	90	3036	0.5000	0.3889	
23 Acetone	43	2.750	2.746	0.004	99	46234	2.00	2.99	
25 Iodomethane	142	2.843	2.843	0.000	98	6247	0.5000	0.5729	
26 Carbon disulfide	76	2.903	2.903	0.000	100	18645	0.5000	0.6033	
28 Methyl acetate	43	2.971	2.967	0.004	96	5500	1.00	0.6646	
29 3-Chloro-1-propene	41	2.986	2.986	0.000	89	11339	0.5000	0.5867	
30 Methylene Chloride	84	3.076	3.076	0.000	97	6502	0.5000	0.6154	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	25	2789	5.00	3.08	
32 Acrylonitrile	53	3.237	3.233	0.004	95	15400	5.00	3.79	
33 Methyl tert-butyl ether	73	3.260	3.256	0.004	69	10027	0.5000	0.3907	
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	88	3233	0.5000	0.3476	
35 Hexane	57	3.451	3.454	-0.003	62	2799	0.5000	0.2187	
37 Vinyl acetate	43	3.567	3.559	0.008	96	14912	1.00	1.68	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	84	5618	0.5000	0.2882	
43 2-Butanone (MEK)	43	3.961	3.953	0.008	78	9179	2.00	1.81	M
45 cis-1,2-Dichloroethene	96	3.979	3.975	0.004	82	5017	0.5000	0.4897	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	37	6339	0.5000	0.4604	M
48 sec-Butyl Alcohol	45	4.080	4.065	0.015	15	5446	12.0	18.5	M
50 Chlorobromomethane	128	4.148	4.148	0.000	96	1648	0.5000	0.3825	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	27	1512	1.00	0.4560	
52 Chloroform	83	4.204	4.208	-0.004	45	5783	0.5000	0.3346	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	54	3900	0.5000	0.2880	
54 Cyclohexane	56	4.403	4.403	0.000	89	7315	0.5000	0.4335	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	87	4841	0.5000	0.3539	
56 Carbon tetrachloride	117	4.463	4.463	0.000	91	5454	0.5000	0.4709	
57 Isobutyl alcohol	41	4.485	4.478	0.007	26	2356	12.5	16.2	
58 Benzene	78	4.605	4.601	0.004	90	19345	0.5000	0.4777	
59 1,2-Dichloroethane	62	4.635	4.635	0.000	48	5169	0.5000	0.3727	
63 n-Heptane	43	4.789	4.793	-0.004	35	3861	0.5000	0.3203	
65 Trichloroethene	95	5.093	5.089	0.004	91	3450	0.5000	0.3630	
66 2-Pentanone	43	5.205	5.194	0.011	19	7735	1.60	2.64	M
67 Methylcyclohexane	55	5.276	5.280	-0.004	81	5497	0.5000	0.4520	
68 1,2-Dichloropropane	63	5.288	5.291	-0.003	42	5157	0.5000	0.4568	M
70 1,4-Dioxane	88	5.333	5.344	-0.011	6	648	10.0	15.5	M
71 Dibromomethane	93	5.363	5.362	0.001	27	1599	0.5000	0.2634	
72 Dichlorobromomethane	83	5.486	5.486	0.000	92	7191	0.5000	0.5416	
74 2-Chloroethyl vinyl ether	63	5.685	5.689	-0.004	1	624	0.5000	0.5721	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	88	6520	0.5000	0.4023	
76 4-Methyl-2-pentanone (MIBK)	43	5.936	5.936	0.000	97	13741	2.00	2.72	
77 Toluene	91	6.112	6.112	0.000	94	20506	0.5000	0.4891	
78 trans-1,3-Dichloropropene	75	6.300	6.296	0.004	42	7193	0.5000	0.4853	M
79 Ethyl methacrylate	69	6.326	6.322	0.004	70	2803	0.5000	0.7551	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	87	4331	0.5000	0.5224	
81 Tetrachloroethene	164	6.558	6.555	0.003	88	3425	0.5000	0.5289	
82 1,3-Dichloropropane	76	6.615	6.611	0.004	88	4688	0.5000	0.3053	
83 2-Hexanone	43	6.641	6.633	0.008	17	3143	2.00	2.30	
84 Chlorodibromomethane	129	6.802	6.802	0.000	84	4720	0.5000	0.5156	
86 Ethylene Dibromide	107	6.922	6.918	0.004	1	2597	0.5000	0.3115	
87 1-Chlorohexane	91	7.316	7.312	0.004	33	6416	0.4000	0.5180	
88 Chlorobenzene	112	7.349	7.349	0.000	82	13122	0.5000	0.5092	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.420	0.001	83	3953	0.5000	0.4543	
90 Ethylbenzene	106	7.428	7.424	0.004	98	5610	0.5000	0.4123	
91 m-Xylene & p-Xylene	106	7.548	7.544	0.004	0	6083	0.5000	0.3685	
92 o-Xylene	106	7.904	7.904	0.000	94	6645	0.5000	0.4160	
93 Styrene	104	7.923	7.919	0.004	63	8618	0.5000	0.3254	
94 Bromoform	173	8.099	8.099	0.000	0	2213	0.5000	0.3736	
95 Isopropylbenzene	105	8.245	8.241	0.004	95	14725	0.5000	0.3967	
97 Cyclohexanone	55	8.343	8.339	0.004	87	5037	15.0	20.9	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.534	-0.004	85	4765	0.5000	0.4373	
99 Bromobenzene	156	8.564	8.560	0.004	94	3805	0.5000	0.4094	
100 trans-1,4-Dichloro-2-butene	53	8.586	8.575	0.011	1	571	0.5000	0.1732	M
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	4	807	0.5000	0.6415	M
102 N-Propylbenzene	120	8.646	8.643	0.004	99	2885	0.5000	0.2816	
103 2-Chlorotoluene	126	8.740	8.732	0.008	94	4403	0.5000	0.4776	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	94	12321	0.5000	0.3996	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.856	8.852	0.004	96	4245	0.5000	0.4441	
106 tert-Butylbenzene	119	9.119	9.122	-0.003	34	6263	0.5000	0.2488	
107 1,2,4-Trimethylbenzene	105	9.186	9.182	0.004	94	12620	0.5000	0.7016	
108 sec-Butylbenzene	134	9.344	9.340	0.004	93	2605	0.5000	0.3673	
110 1,3-Dichlorobenzene	146	9.467	9.467	0.000	96	9435	0.5000	0.5362	
111 4-Isopropyltoluene	119	9.494	9.493	0.001	96	10575	0.5000	0.6961	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	52	11465	0.5000	0.6170	
114 n-Butylbenzene	91	9.902	9.898	0.004	94	10788	0.5000	0.7960	
115 1,2-Dichlorobenzene	146	9.925	9.921	0.004	94	8220	0.5000	0.4978	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	1	131	0.5000	0.0764	
118 1,2,4-Trichlorobenzene	180	11.537	11.525	0.012	80	2873	0.5000	0.3502	
119 Hexachlorobutadiene	225	11.668	11.668	0.000	1	2319	0.5000	0.5996	M
120 Naphthalene	128	11.806	11.791	0.015	1	9350	0.5000	0.6048	M
121 1,2,3-Trichlorobenzene	180	12.016	12.013	0.003	1	1596	0.5000	-4.06	
S 143 1,3-Dichloropropene, Total	1				0		1.00	0.8876	
S 142 Trihalomethanes, Total	1				0		2.00	1.77	
S 141 Xylenes, Total	106				0		1.00	0.7845	
S 140 1,2-Dichloroethene, Total	1				0		1.00	0.8373	
S 139 Total BTEX	1				0			2.16	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

Cal Dil Std_00214

Amount Added: 5.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D

Injection Date: 30-Jul-2023 19:19:30

Instrument ID: VMS R1

Operator ID: bustillose

Lims ID: ic

Worklist Smp#: 21

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

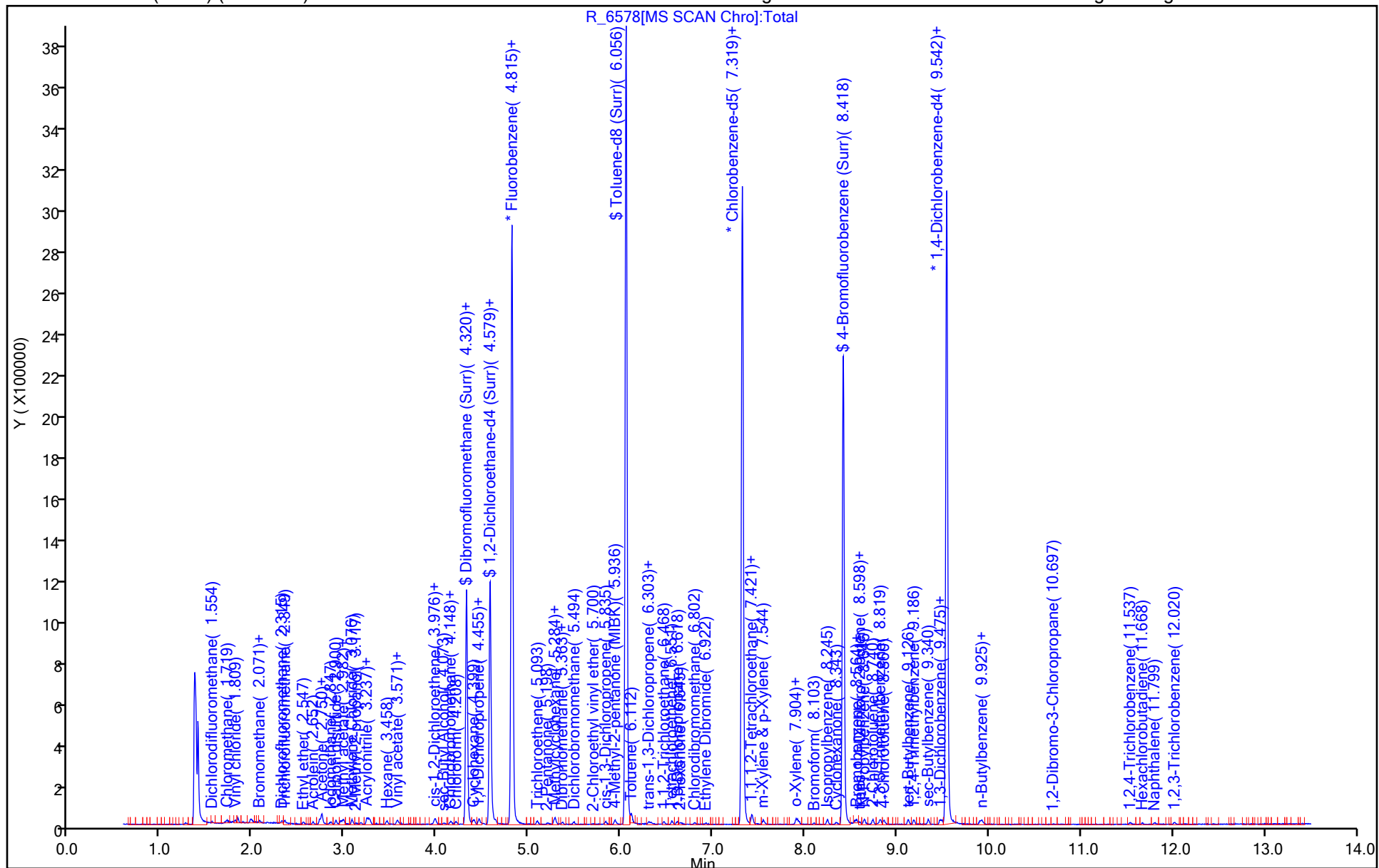
ALS Bottle#: 11

Method: AQ VMSR1 8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D

Injection Date: 30-Jul-2023 19:19:30

Instrument ID: VMS_R1

Lims ID: ic

Client ID:

Operator ID: bustillose

ALS Bottle#:

11

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

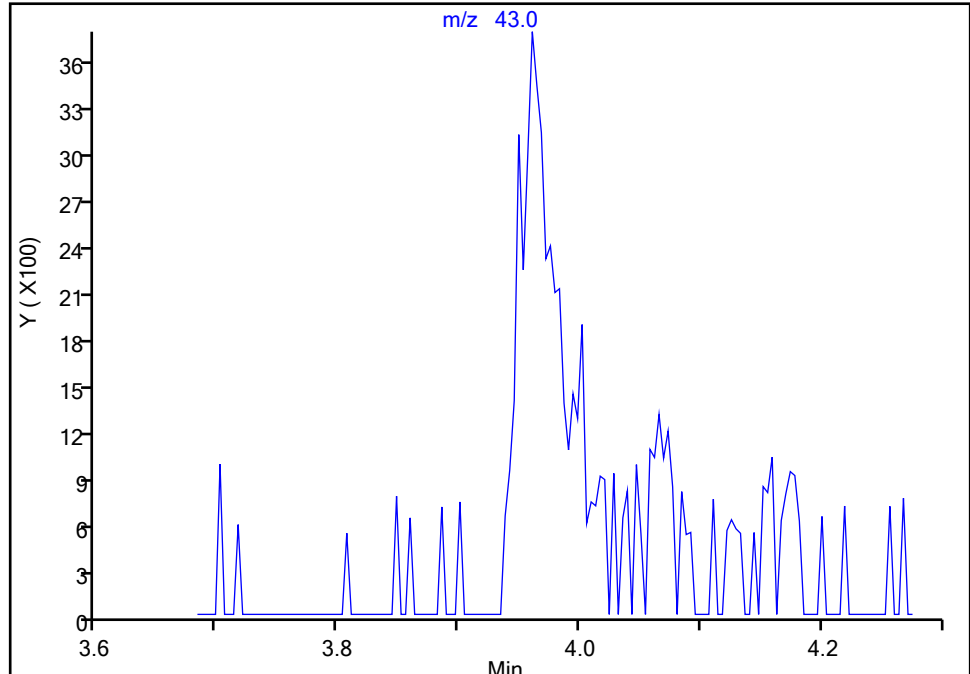
43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

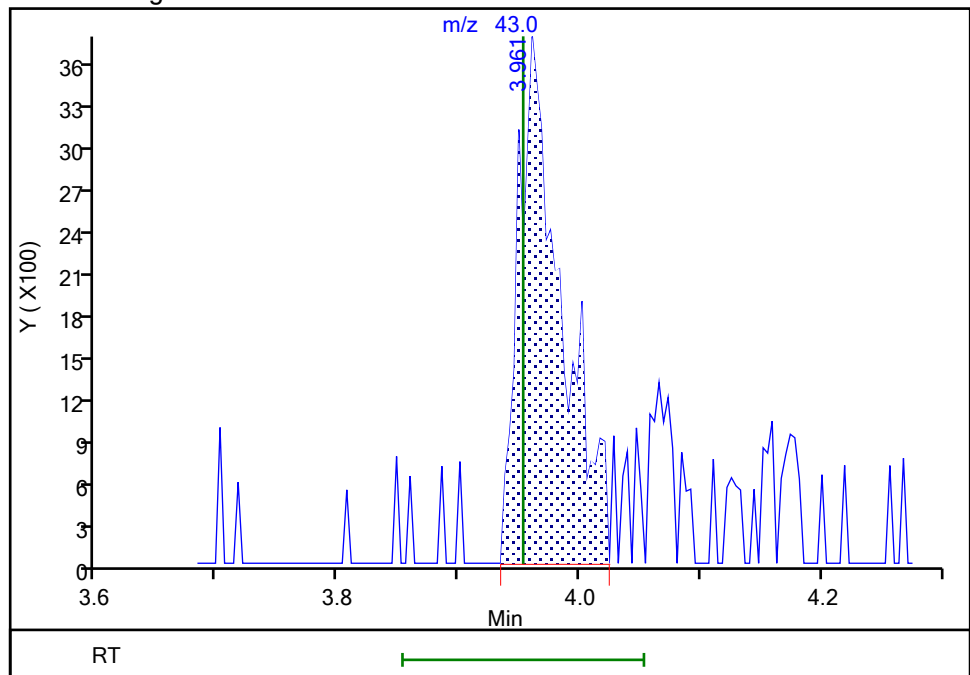
Not Detected

Expected RT: 3.95

Processing Integration Results



Manual Integration Results



RT: 3.96

Area: 9179

Amount: 1.806871

Amount Units: ug/l

Reviewer: AF7X, 31-Jul-2023 05:58:07 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

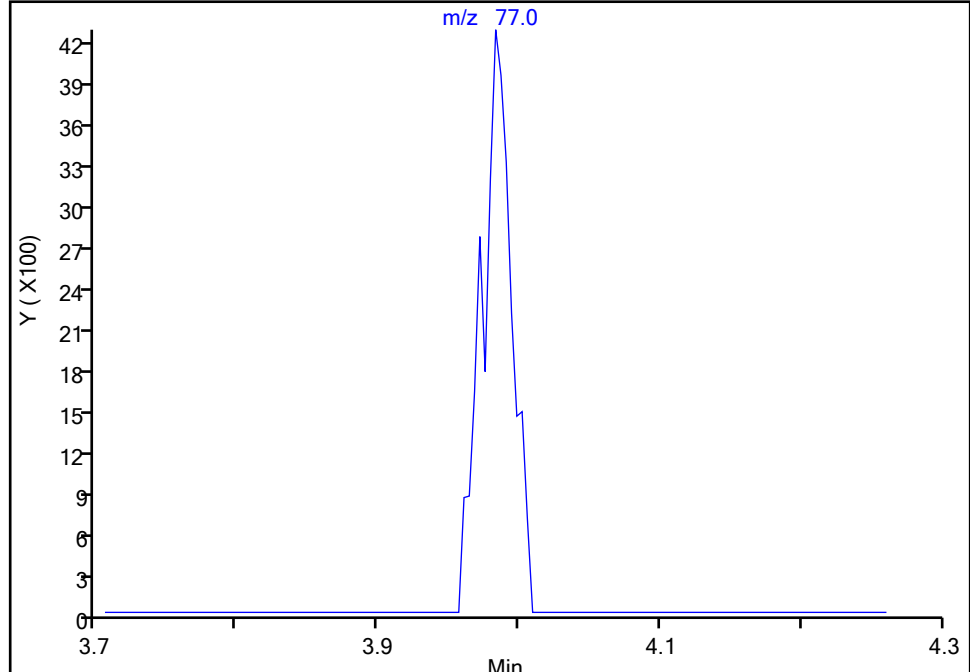
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

46 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

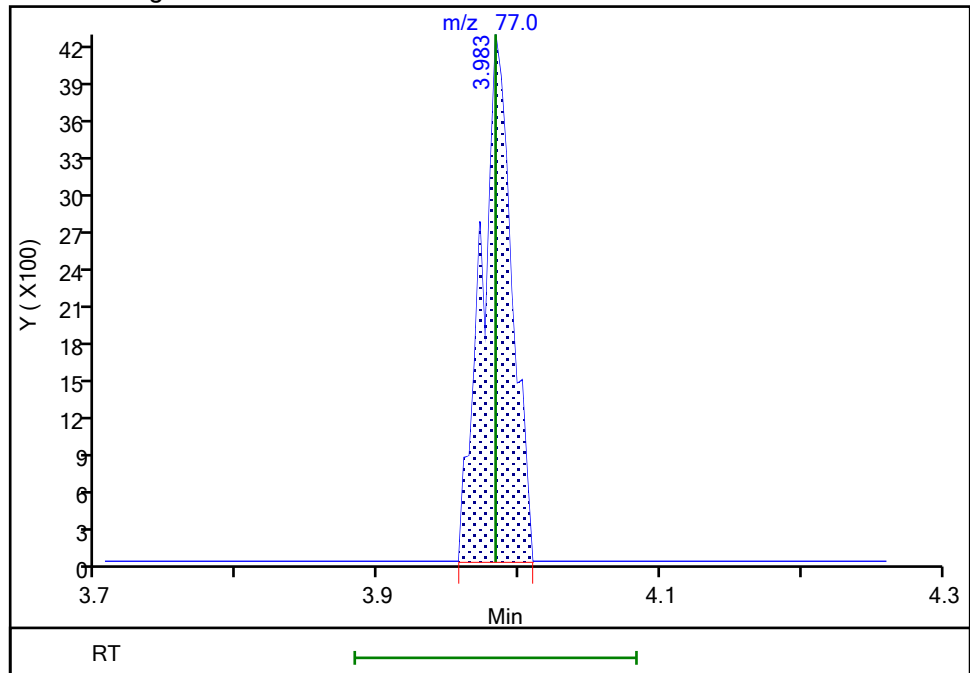
Not Detected
Expected RT: 3.98

Processing Integration Results



RT: 3.98
Area: 6339
Amount: 0.460418
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:15 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

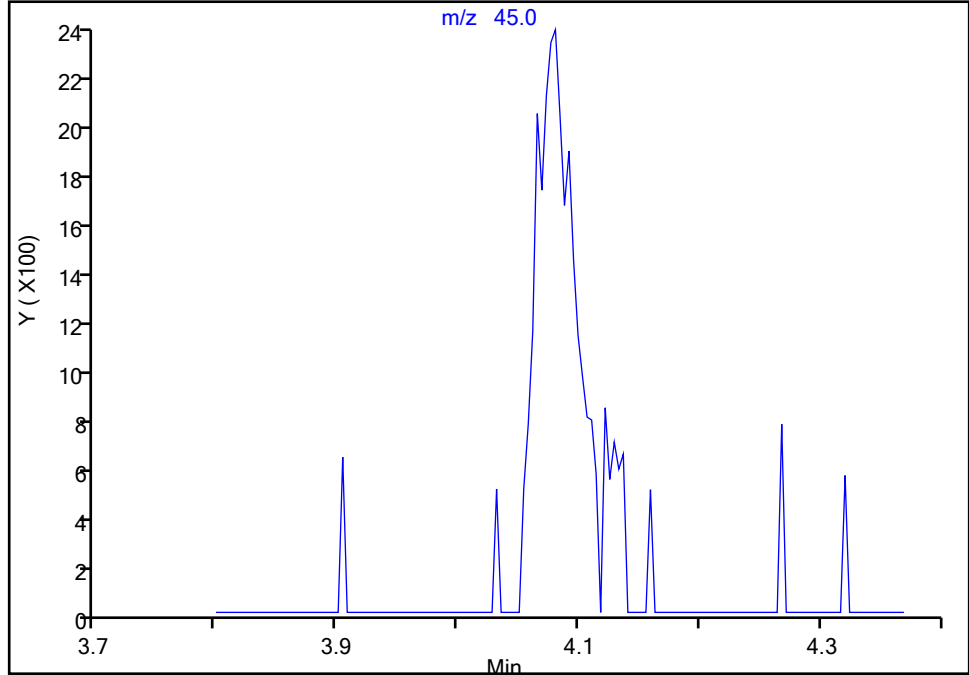
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

48 sec-Butyl Alcohol, CAS: 78-92-2

Signal: 1

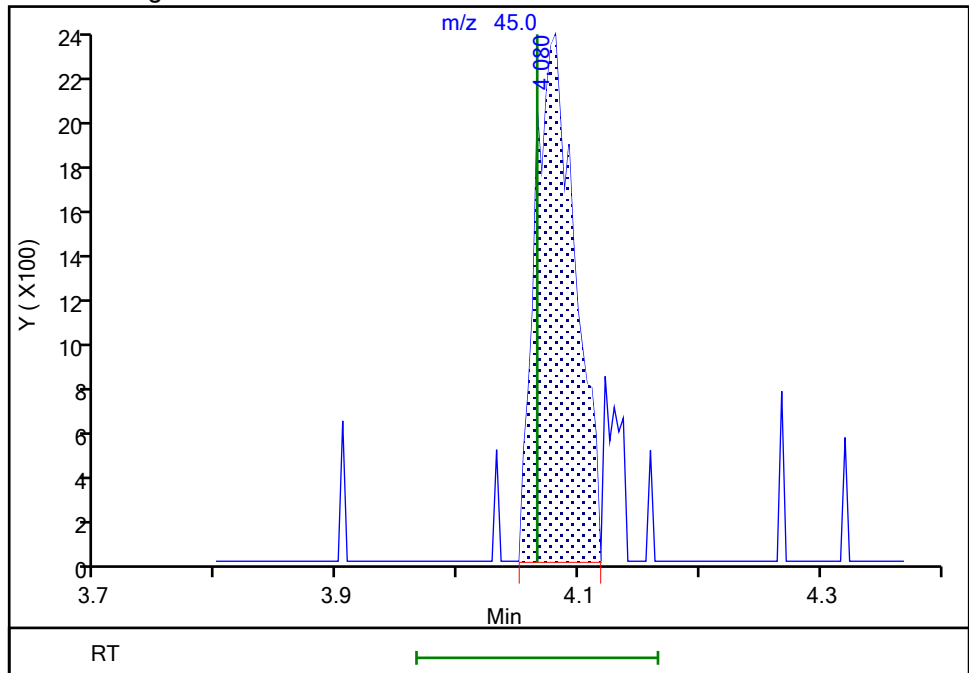
Not Detected
Expected RT: 4.07

Processing Integration Results



RT: 4.08
Area: 5446
Amount: 18.463893
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:21 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

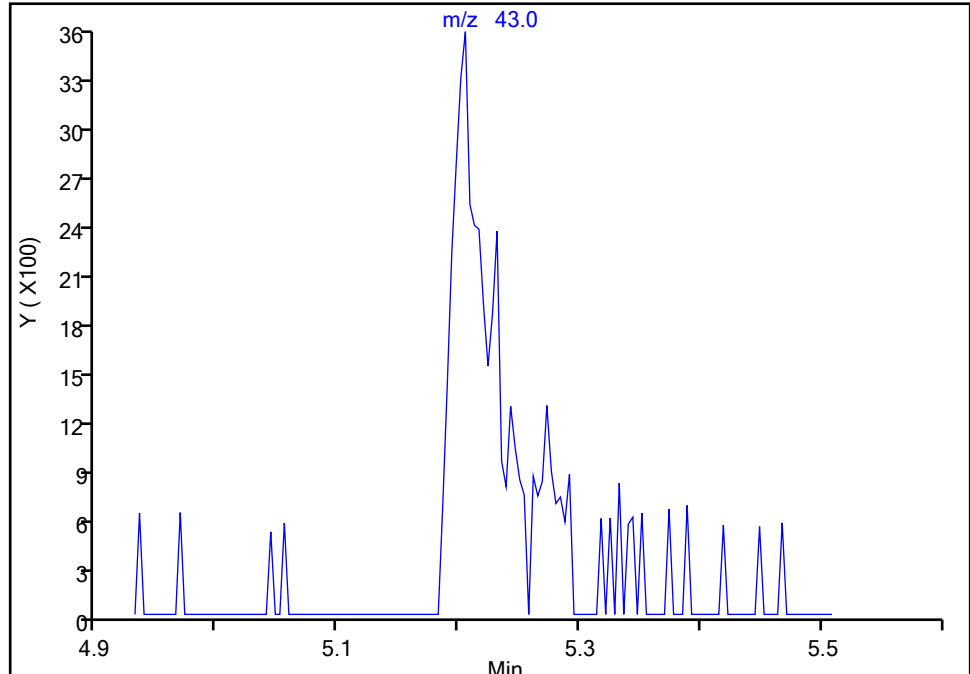
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

66 2-Pentanone, CAS: 107-87-9

Signal: 1

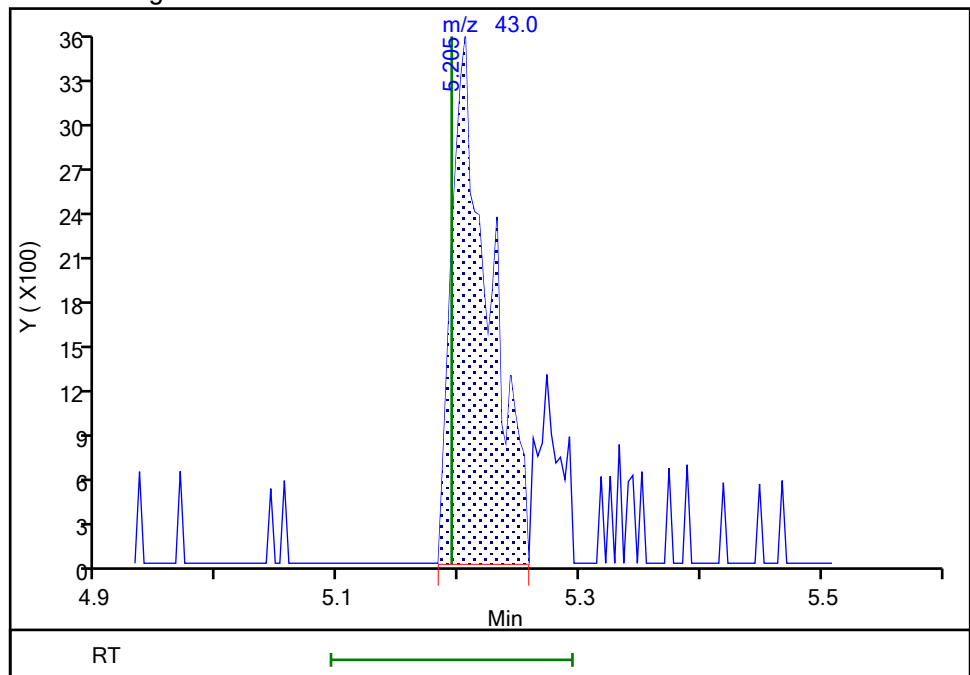
Not Detected
Expected RT: 5.19

Processing Integration Results



RT: 5.21
Area: 7735
Amount: 2.639848
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:31 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

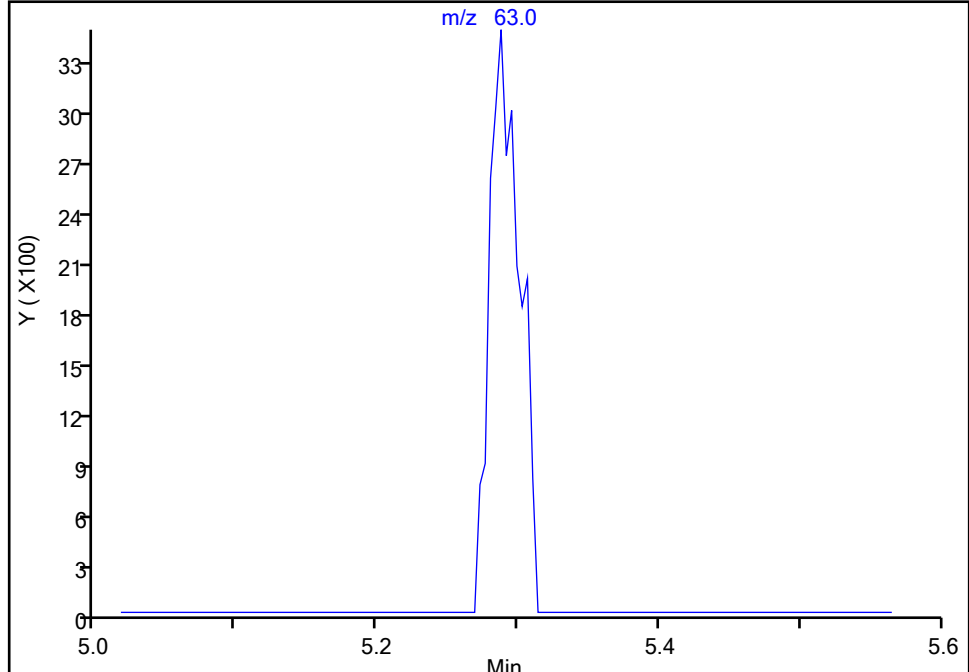
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

68 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

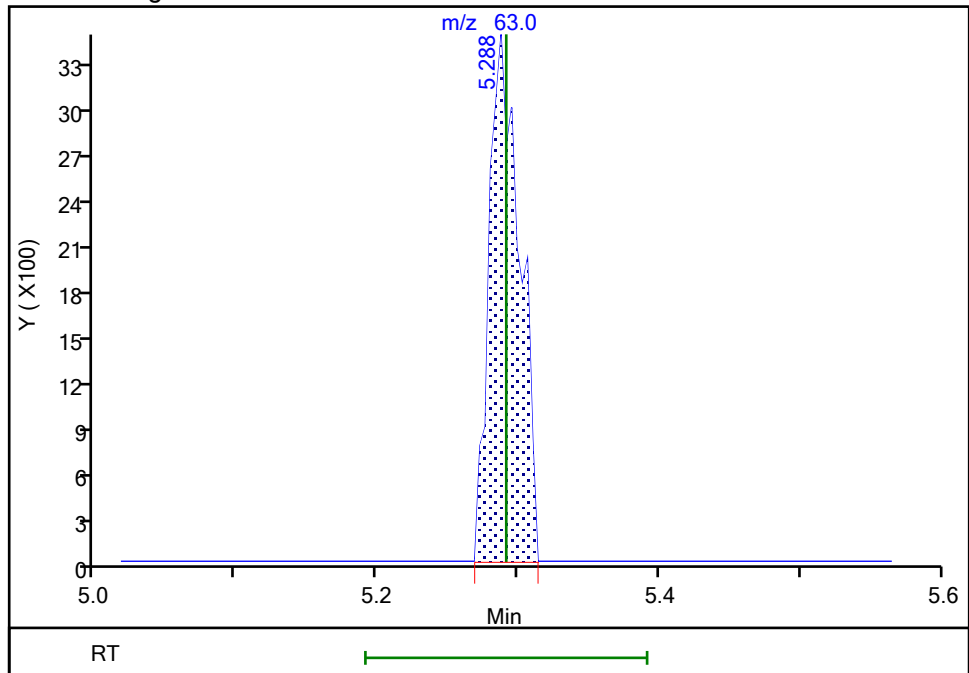
Not Detected
Expected RT: 5.29

Processing Integration Results



RT: 5.29
Area: 5157
Amount: 0.456786
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:39 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

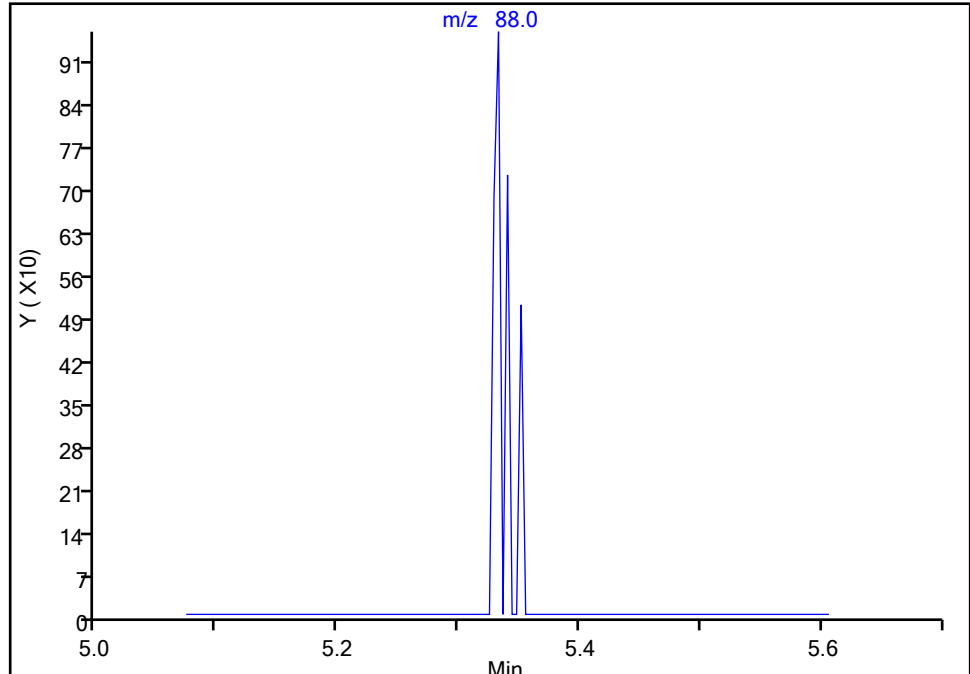
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

Signal: 1

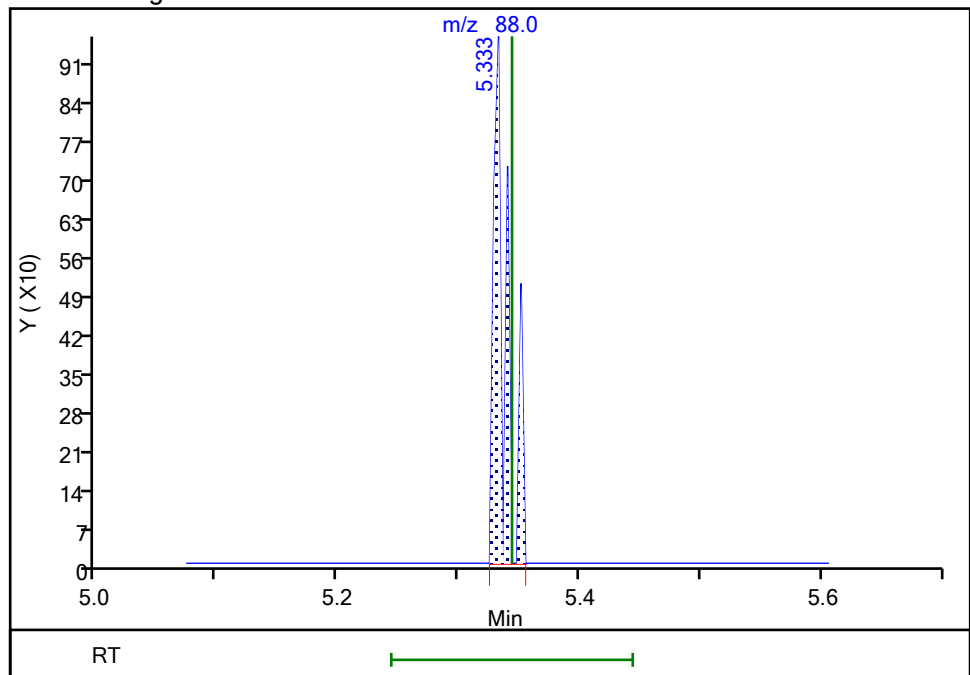
Not Detected
Expected RT: 5.34

Processing Integration Results



RT: 5.33
Area: 648
Amount: 15.460876
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:47 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

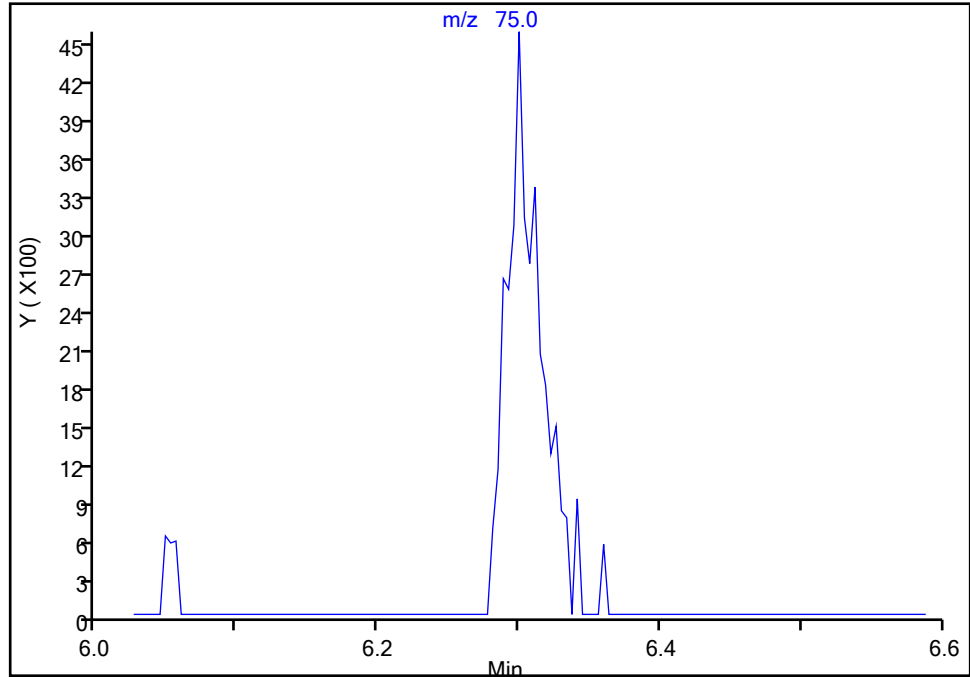
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

78 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

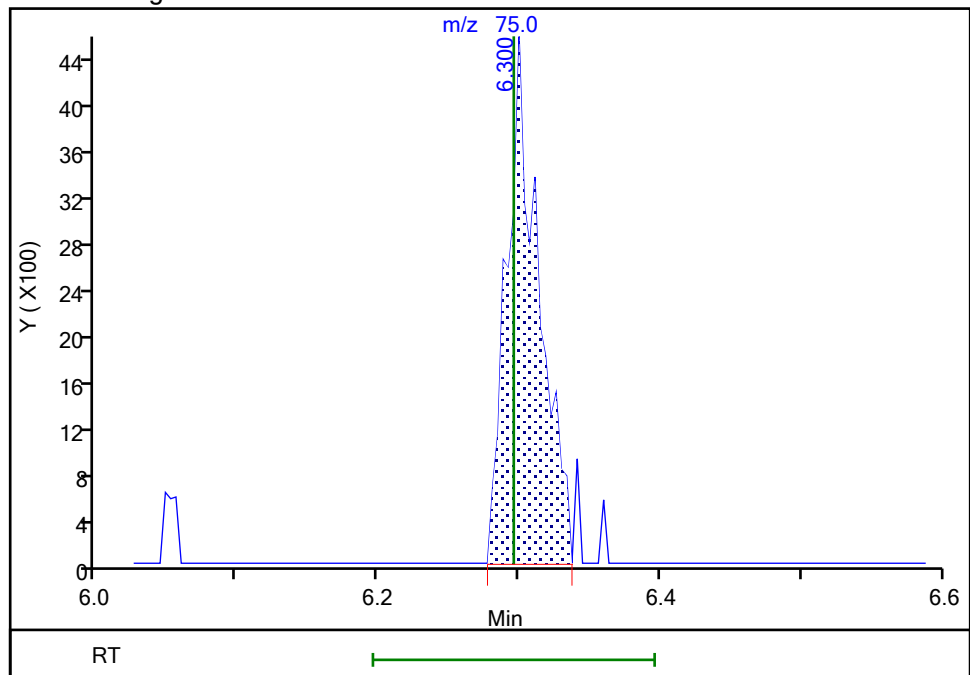
Not Detected
Expected RT: 6.30

Processing Integration Results



RT: 6.30
Area: 7193
Amount: 0.485274
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:58:54 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

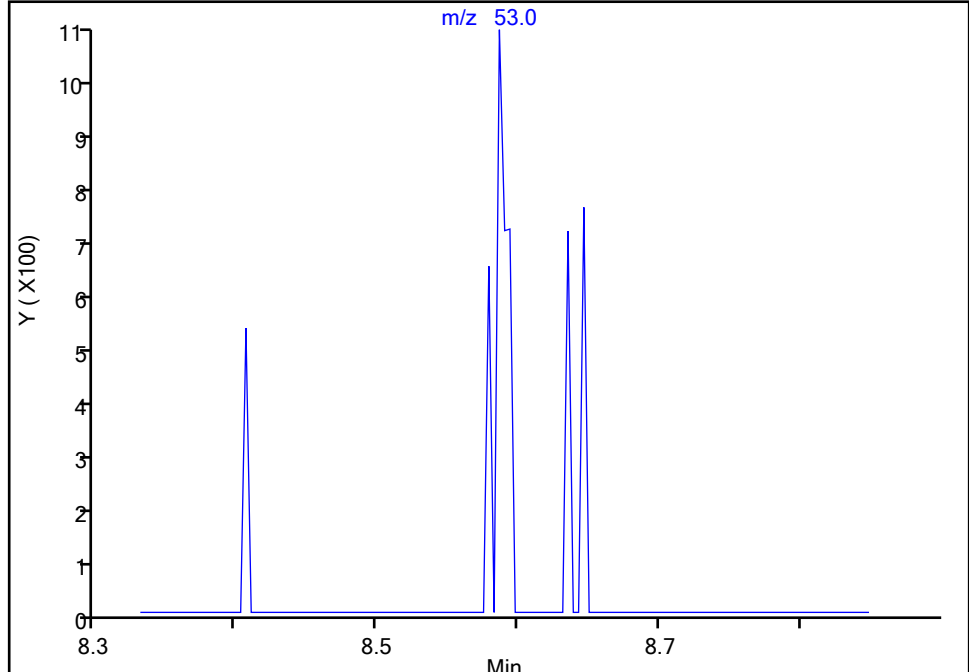
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

100 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

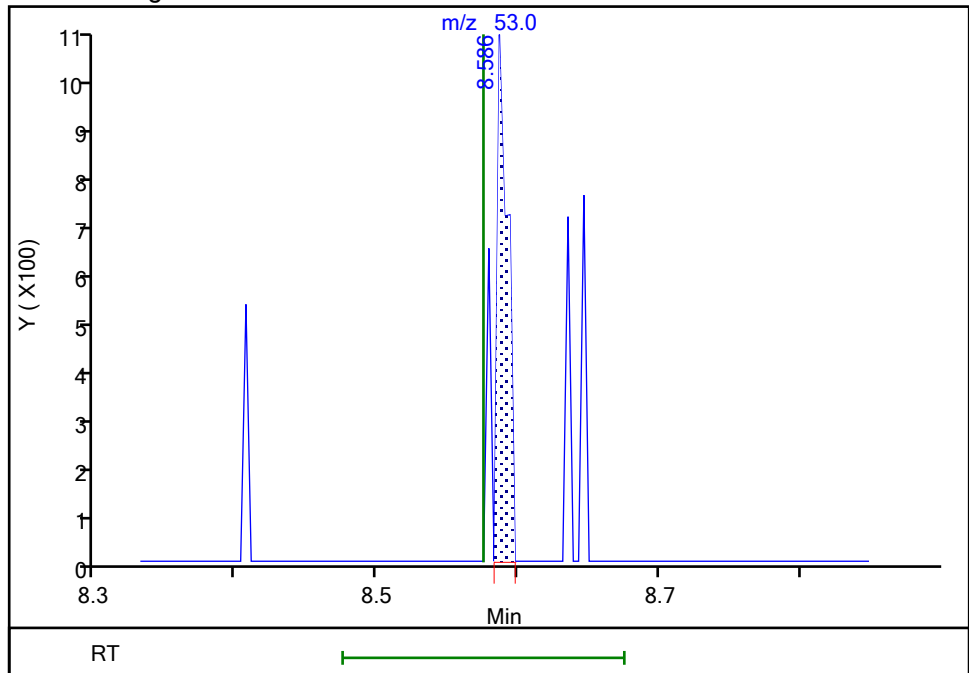
Not Detected
Expected RT: 8.58

Processing Integration Results



RT: 8.59
Area: 571
Amount: 0.173214
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:59:04 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

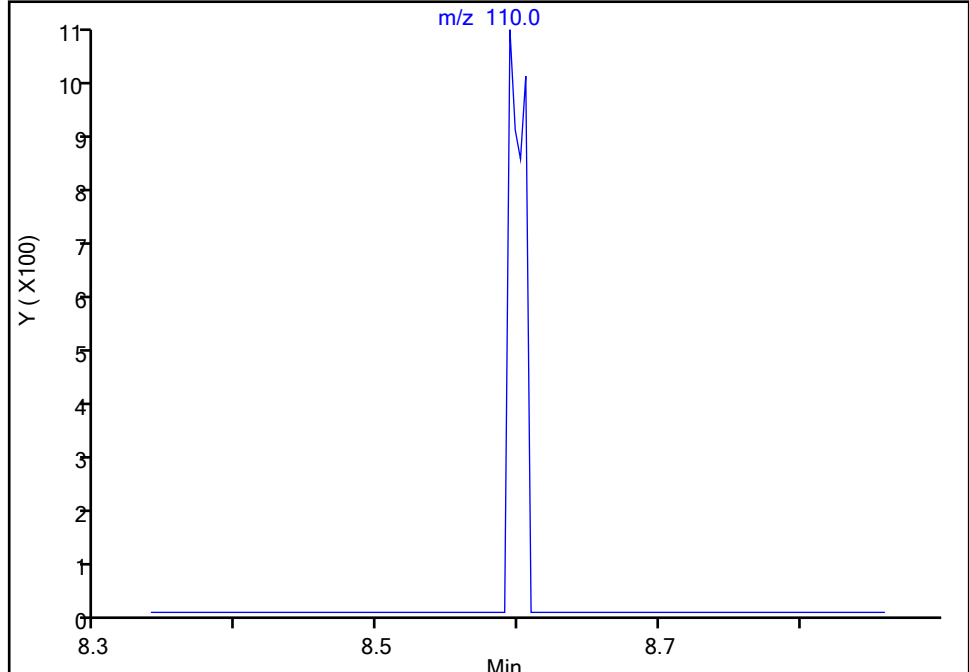
Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector MS SCAN

101 1,2,3-Trichloropropane, CAS: 96-18-4
Signal: 1

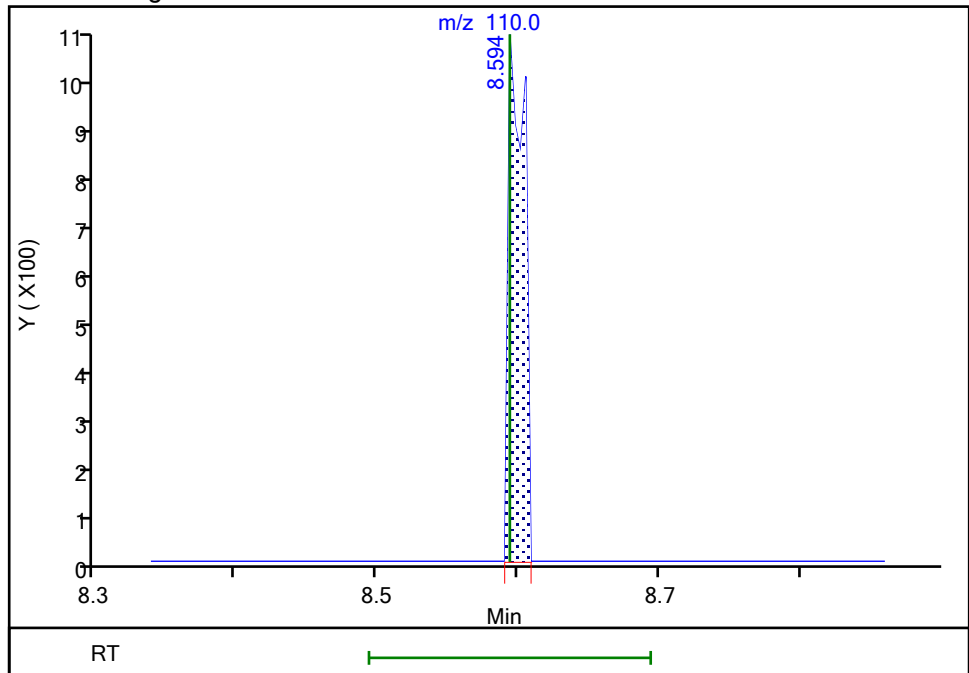
Not Detected
Expected RT: 8.59

Processing Integration Results



RT: 8.59
Area: 807
Amount: 0.641499
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:59:12 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

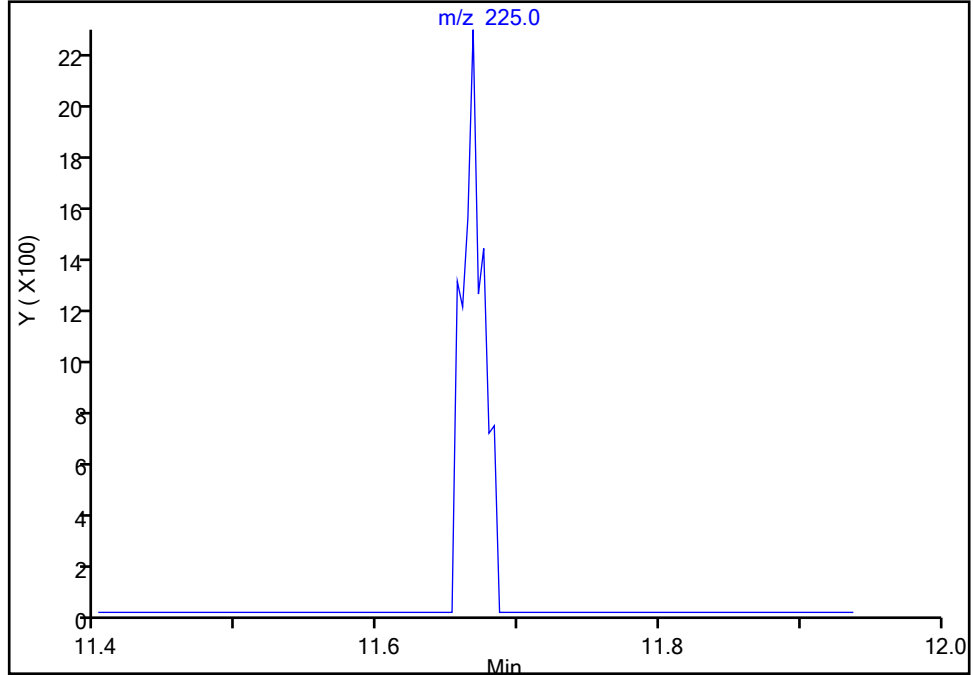
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

119 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

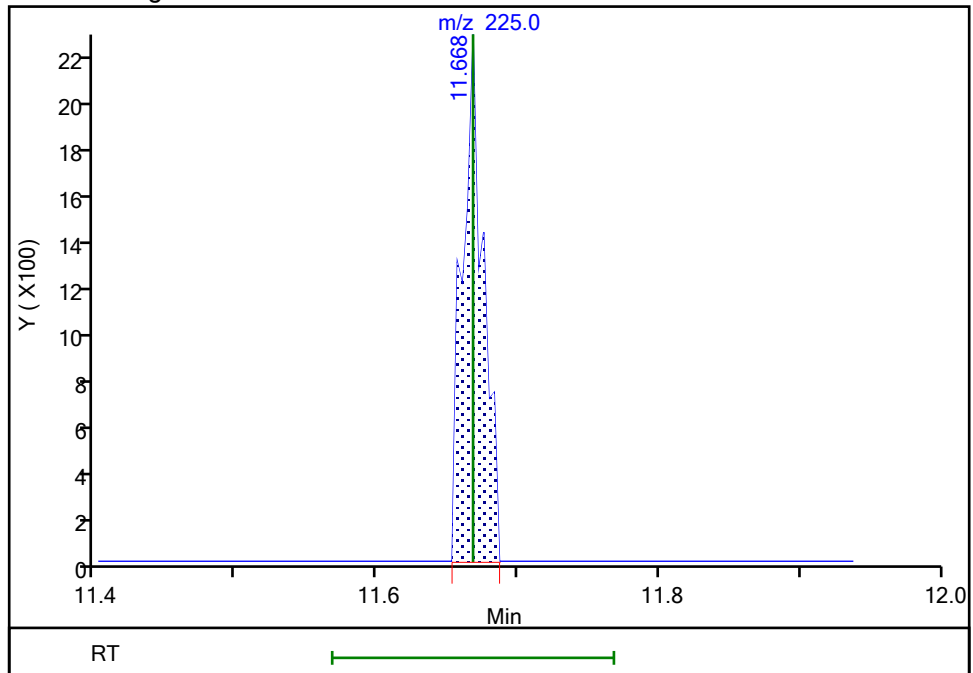
Not Detected
Expected RT: 11.67

Processing Integration Results



RT: 11.67
Area: 2319
Amount: 0.599575
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:59:22 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins Denver

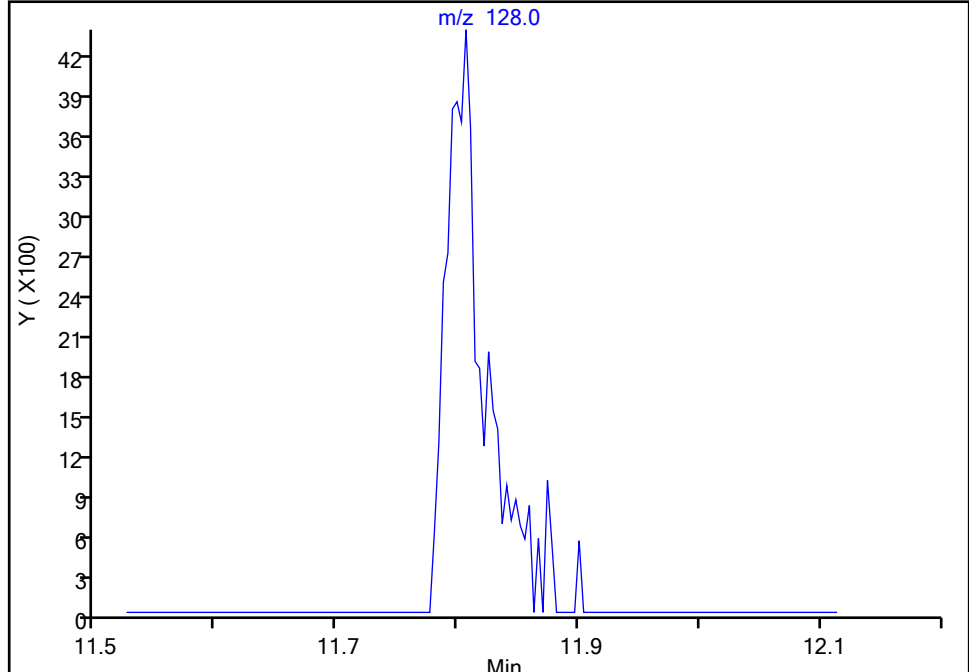
Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Injection Date: 30-Jul-2023 19:19:30 Instrument ID: VMS_R1
Lims ID: ic
Client ID:
Operator ID: bustillose ALS Bottle#: 11 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMSR1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

120 Naphthalene, CAS: 91-20-3

Signal: 1

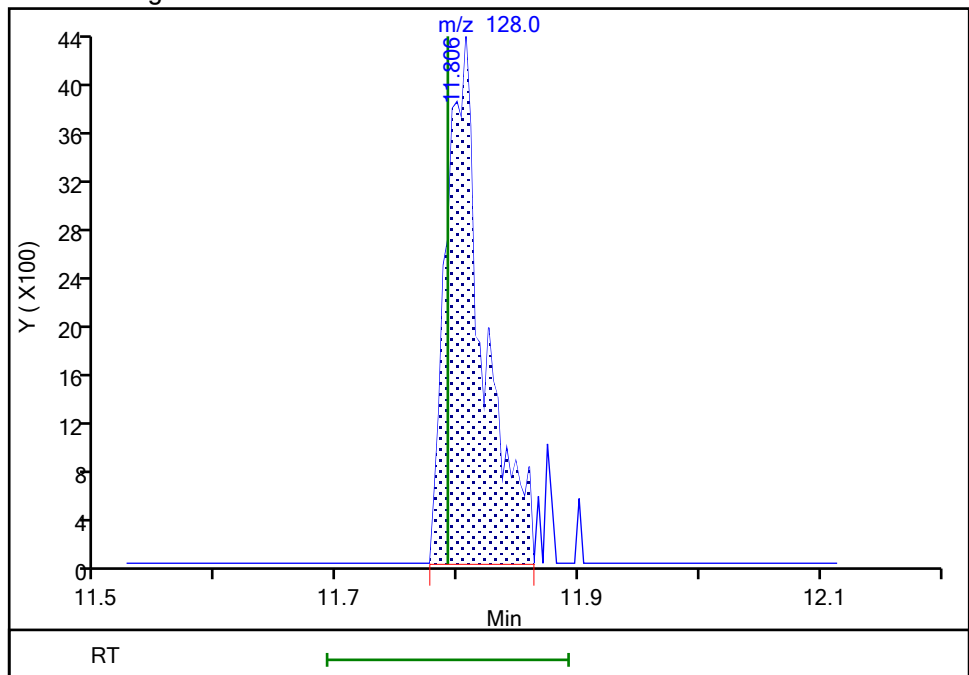
Not Detected
Expected RT: 11.79

Processing Integration Results



RT: 11.81
Area: 9350
Amount: 0.604803
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 31-Jul-2023 05:59:31 -06:00:00 (UTC)

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Calibration

/ Dichlorodifluoromethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

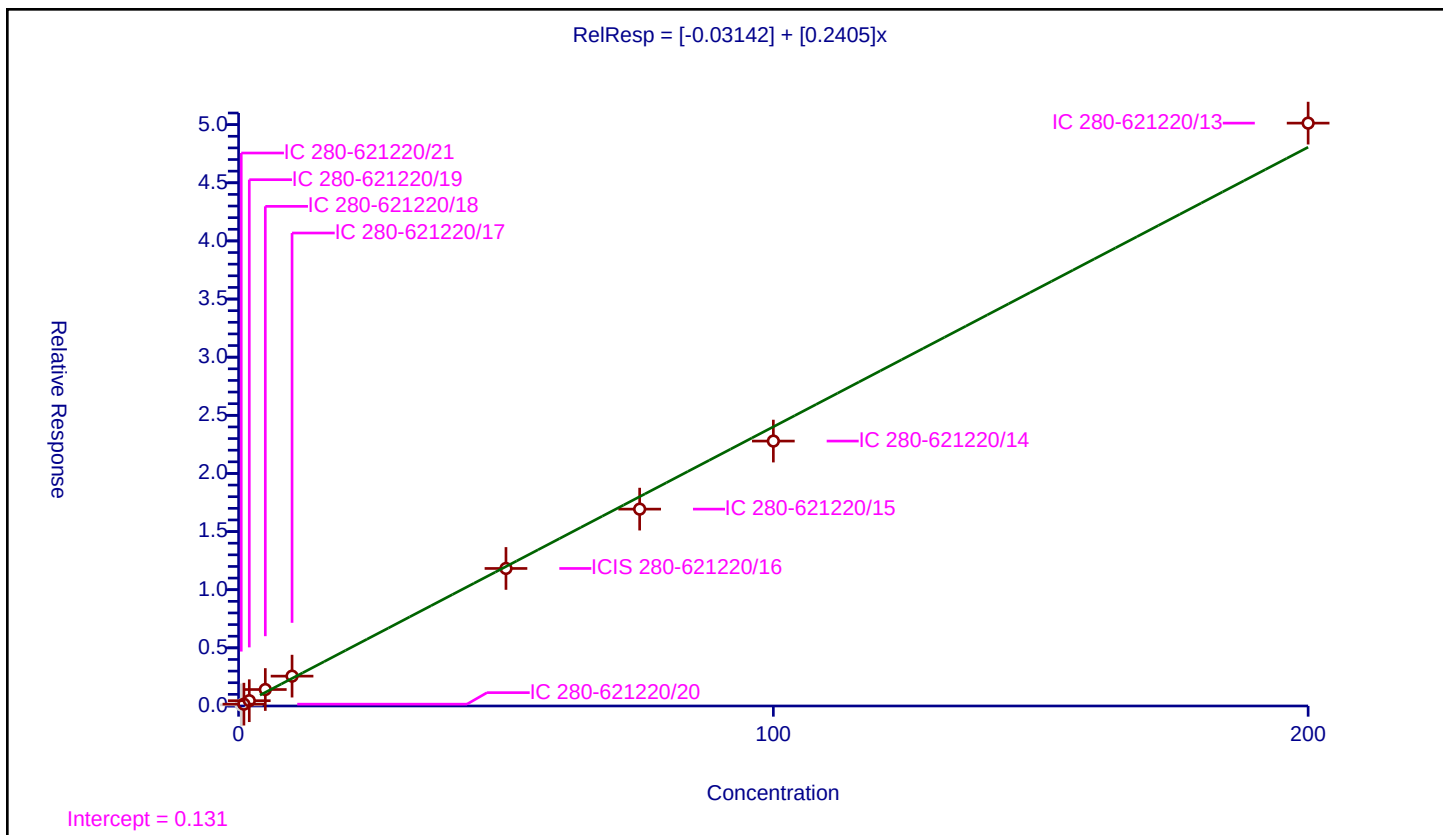
Curve Coefficients

Intercept: -0.03142
 Slope: 0.2405

Error Coefficients

Standard Error: 1070000
 Relative Standard Error: 13.1
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.09526	50.0	2022878.0	0.190521	N
2	IC 280-621220/20	1.0	0.157161	50.0	2130300.0	0.157161	Y
3	IC 280-621220/19	2.0	0.45545	50.0	2179494.0	0.227725	Y
4	IC 280-621220/18	5.0	1.415347	50.0	2161519.0	0.283069	Y
5	IC 280-621220/17	10.0	2.567894	50.0	2216038.0	0.256789	Y
6	ICIS 280-621220/16	50.0	11.829873	50.0	2317582.0	0.236597	Y
7	IC 280-621220/15	75.0	16.932044	50.0	2262624.0	0.225761	Y
8	IC 280-621220/14	100.0	22.78411	50.0	2263977.0	0.227841	Y
9	IC 280-621220/13	200.0	50.130258	50.0	2209843.0	0.250651	Y



Calibration

/ Chloromethane

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

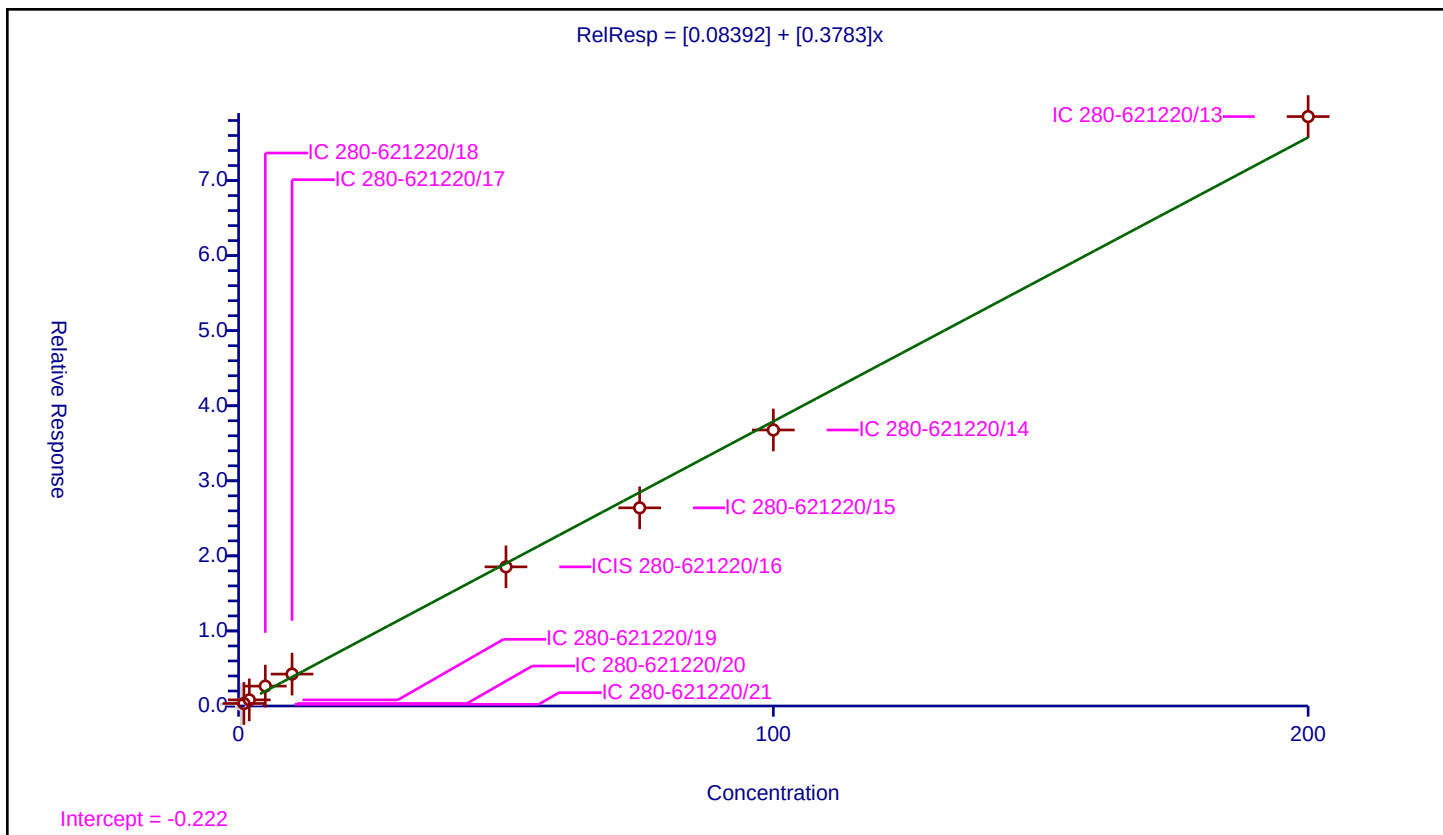
Curve Coefficients

Intercept: 0.08392
 Slope: 0.3783

Error Coefficients

Standard Error: 1680000
 Relative Standard Error: 20.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.221689	50.0	2022878.0	0.443378	N
2	IC 280-621220/20	1.0	0.336314	50.0	2130300.0	0.336314	Y
3	IC 280-621220/19	2.0	0.81613	50.0	2179494.0	0.408065	Y
4	IC 280-621220/18	5.0	2.64749	50.0	2161519.0	0.529498	Y
5	IC 280-621220/17	10.0	4.25013	50.0	2216038.0	0.425013	Y
6	ICIS 280-621220/16	50.0	18.534835	50.0	2317582.0	0.370697	Y
7	IC 280-621220/15	75.0	26.397249	50.0	2262624.0	0.351963	Y
8	IC 280-621220/14	100.0	36.771133	50.0	2263977.0	0.367711	Y
9	IC 280-621220/13	200.0	78.526484	50.0	2209843.0	0.392632	Y



Calibration

/ Vinyl chloride

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

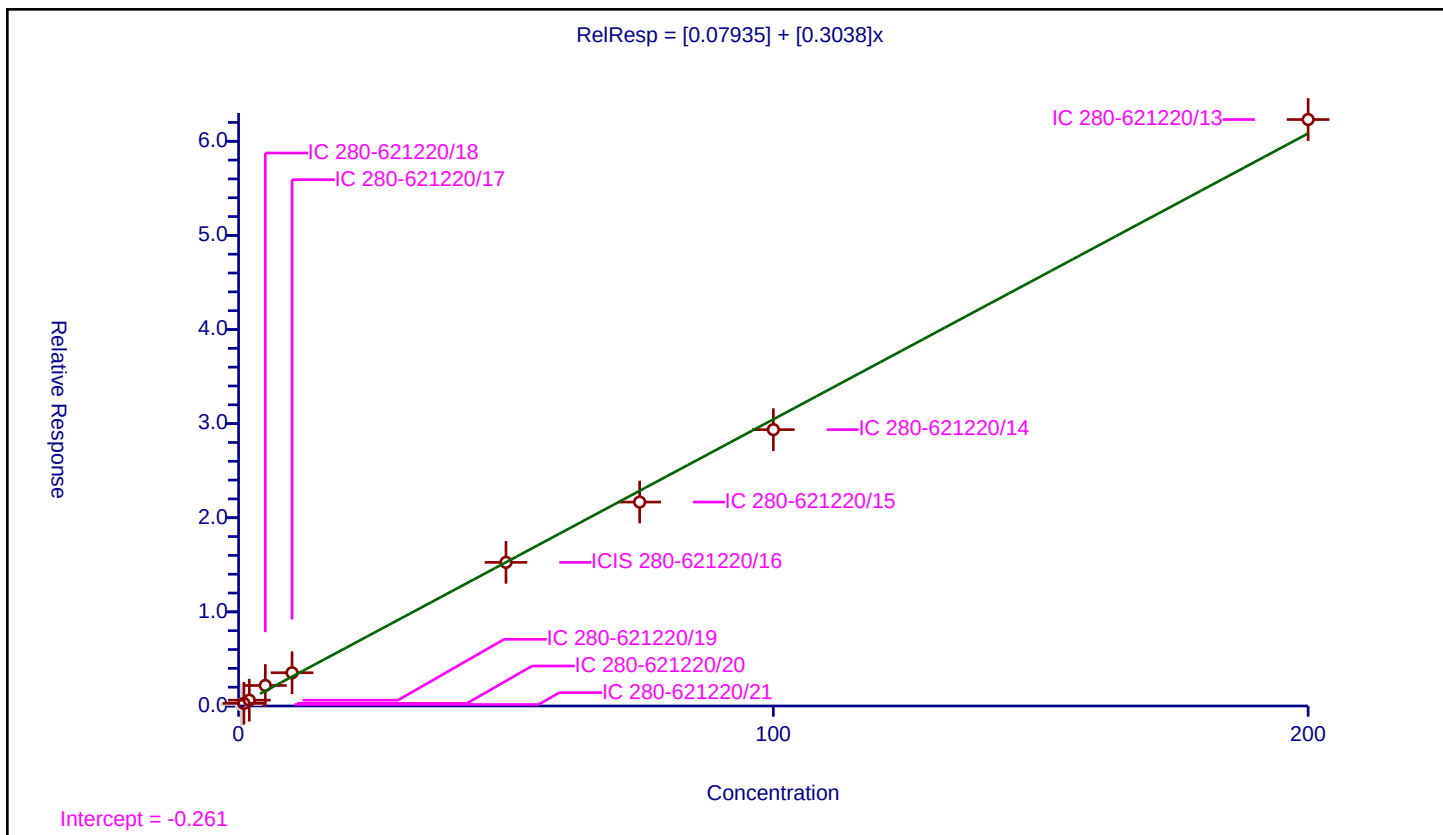
Curve Coefficients

Intercept: 0.07935
Slope: 0.3038

Error Coefficients

Standard Error: 1340000
Relative Standard Error: 22.1
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.158166	50.0	2022878.0	0.316331	N
2	IC 280-621220/20	1.0	0.281744	50.0	2130300.0	0.281744	Y
3	IC 280-621220/19	2.0	0.615005	50.0	2179494.0	0.307503	Y
4	IC 280-621220/18	5.0	2.175947	50.0	2161519.0	0.435189	Y
5	IC 280-621220/17	10.0	3.530806	50.0	2216038.0	0.353081	Y
6	ICIS 280-621220/16	50.0	15.256936	50.0	2317582.0	0.305139	Y
7	IC 280-621220/15	75.0	21.667011	50.0	2262624.0	0.288893	Y
8	IC 280-621220/14	100.0	29.362887	50.0	2263977.0	0.293629	Y
9	IC 280-621220/13	200.0	62.309291	50.0	2209843.0	0.311546	Y



Calibration

/ Bromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

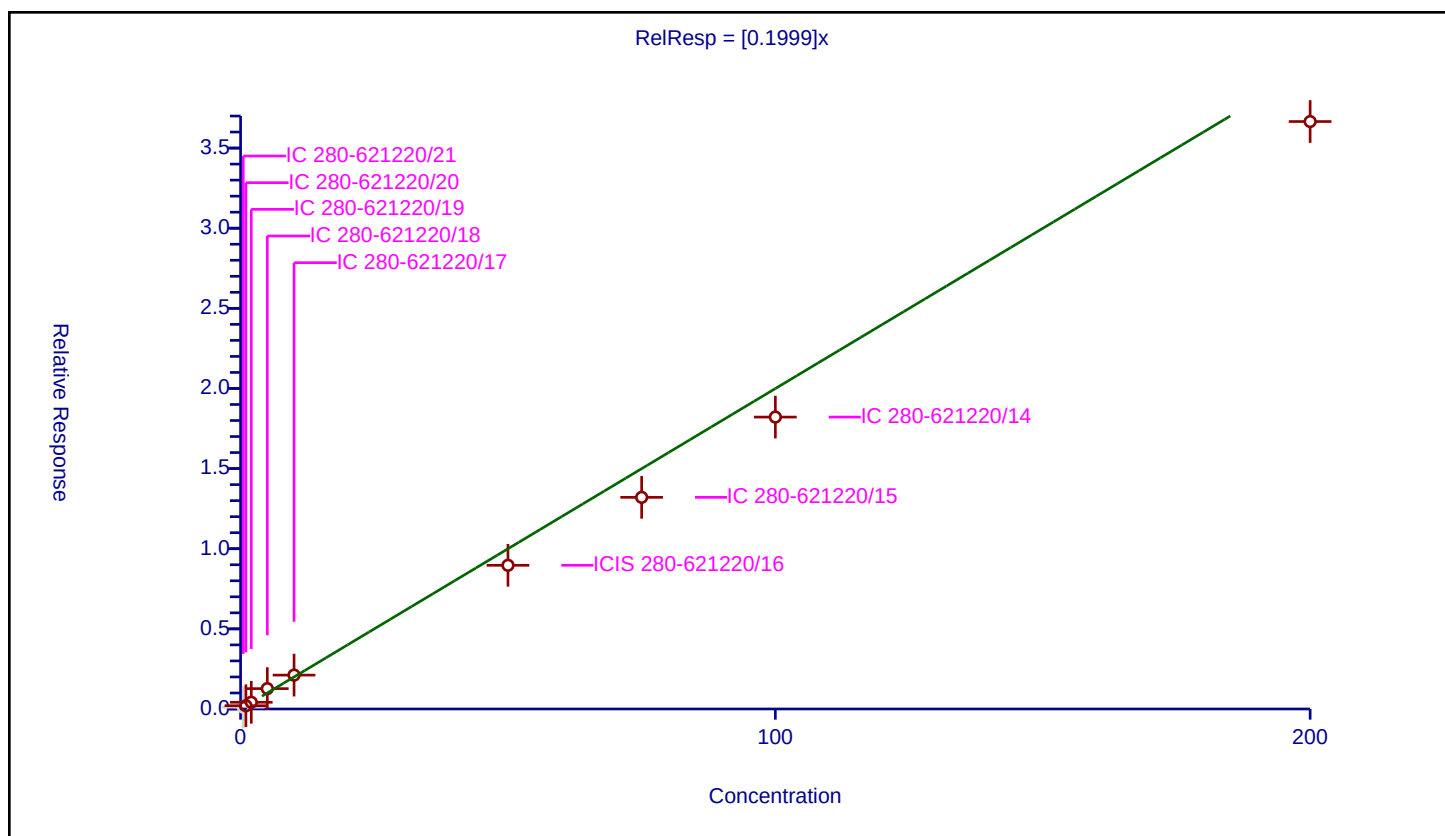
Curve Coefficients

Intercept: 0
 Slope: 0.1999

Error Coefficients

Standard Error: 741000
 Relative Standard Error: 13.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.11234	50.0	2022878.0	0.22468	N
2	IC 280-621220/20	1.0	0.203868	50.0	2130300.0	0.203868	Y
3	IC 280-621220/19	2.0	0.418262	50.0	2179494.0	0.209131	Y
4	IC 280-621220/18	5.0	1.270866	50.0	2161519.0	0.254173	Y
5	IC 280-621220/17	10.0	2.11472	50.0	2216038.0	0.211472	Y
6	ICIS 280-621220/16	50.0	8.966695	50.0	2317582.0	0.179334	Y
7	IC 280-621220/15	75.0	13.205332	50.0	2262624.0	0.176071	Y
8	IC 280-621220/14	100.0	18.214363	50.0	2263977.0	0.182144	Y
9	IC 280-621220/13	200.0	36.655296	50.0	2209843.0	0.183276	Y



Calibration

/ Chloroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

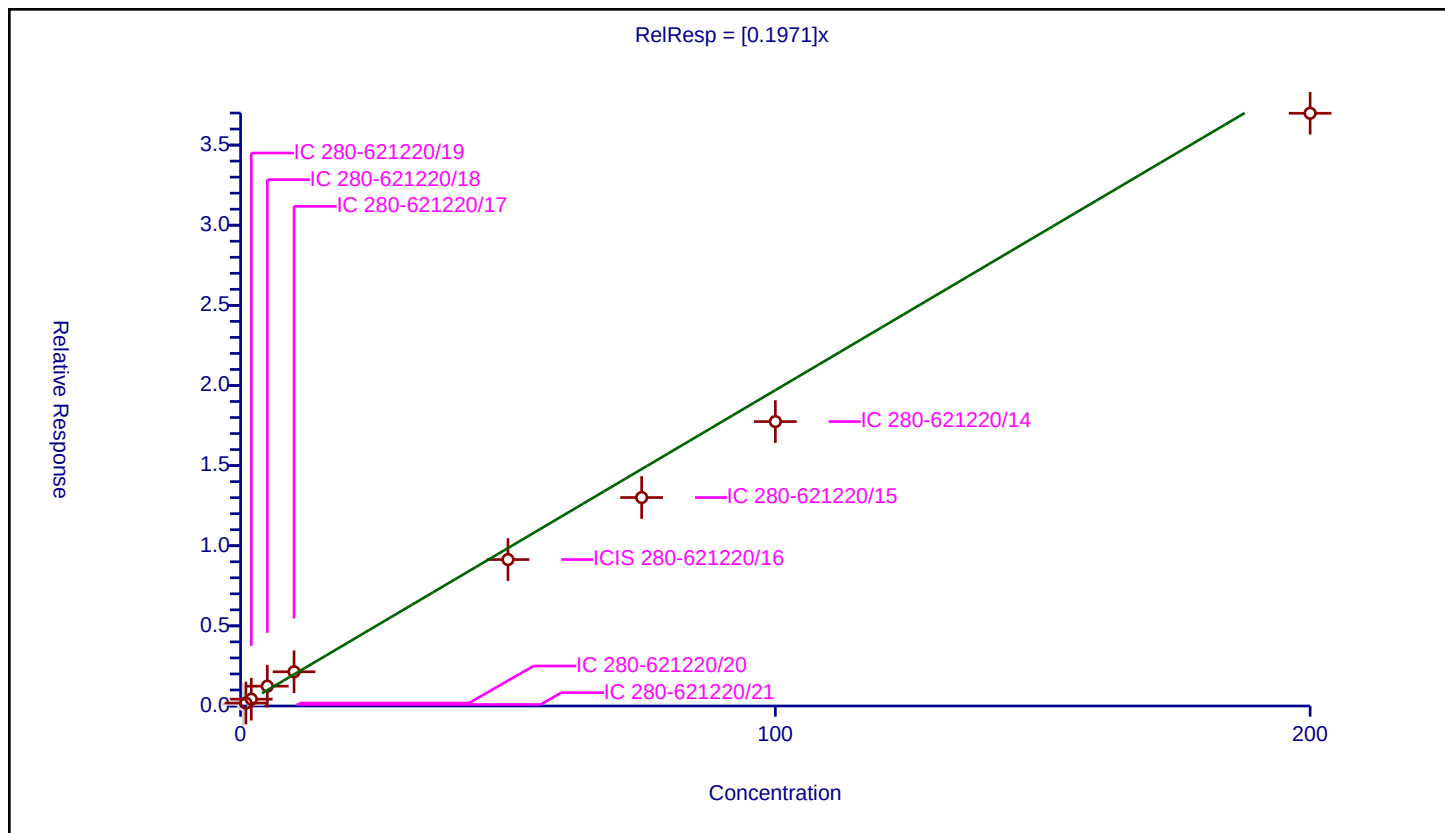
Curve Coefficients

Intercept: 0
Slope: 0.1971

Error Coefficients

Standard Error: 742000
Relative Standard Error: 12.9
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.093851	50.0	2022878.0	0.187703	N
2	IC 280-621220/20	1.0	0.184293	50.0	2130300.0	0.184293	Y
3	IC 280-621220/19	2.0	0.425672	50.0	2179494.0	0.212836	Y
4	IC 280-621220/18	5.0	1.237186	50.0	2161519.0	0.247437	Y
5	IC 280-621220/17	10.0	2.133379	50.0	2216038.0	0.213338	Y
6	ICIS 280-621220/16	50.0	9.137519	50.0	2317582.0	0.18275	Y
7	IC 280-621220/15	75.0	13.008171	50.0	2262624.0	0.173442	Y
8	IC 280-621220/14	100.0	17.746338	50.0	2263977.0	0.177463	Y
9	IC 280-621220/13	200.0	36.985727	50.0	2209843.0	0.184929	Y



Calibration

/ Dichlorofluoromethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

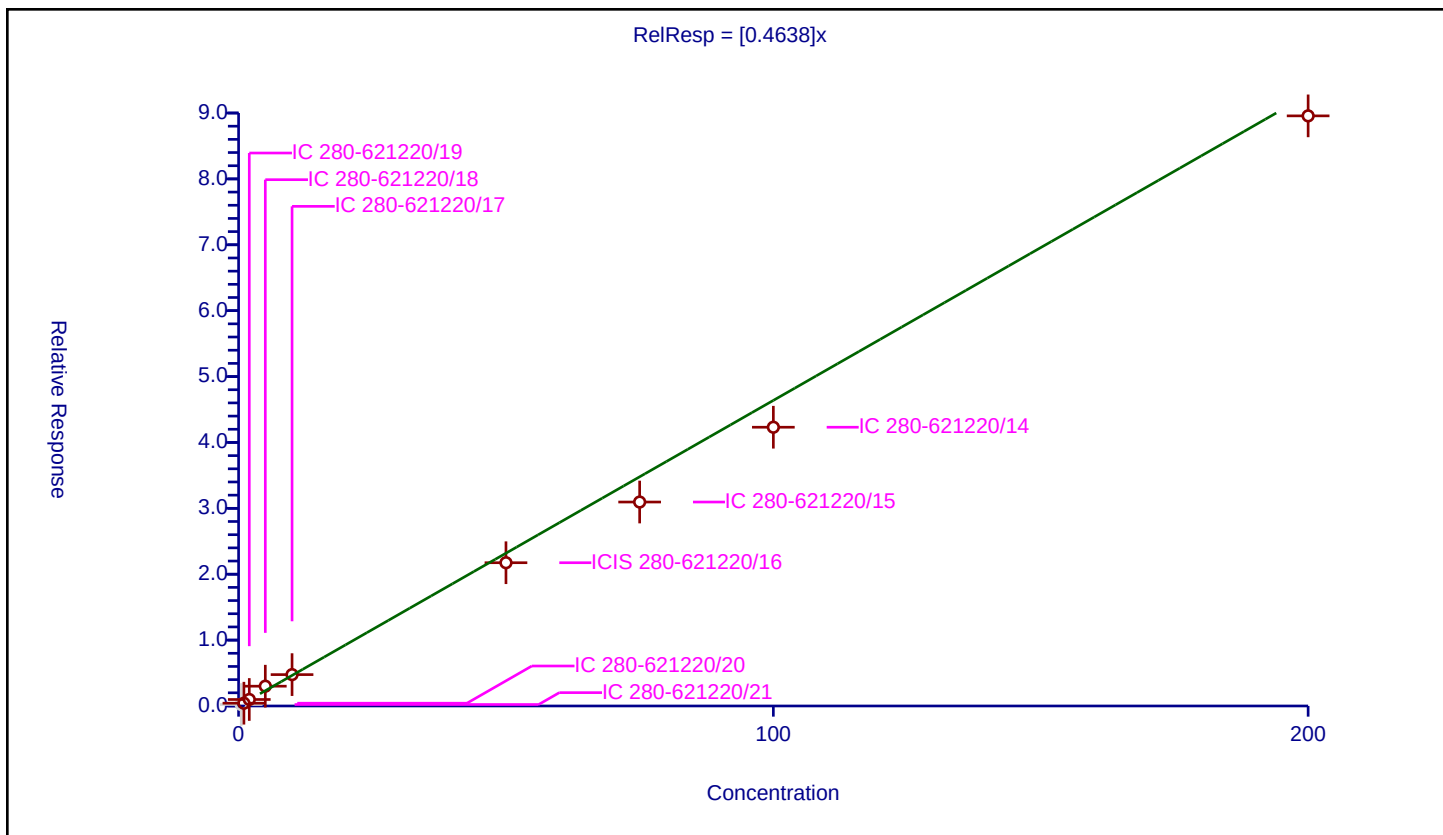
Curve Coefficients

Intercept: 0
 Slope: 0.4638

Error Coefficients

Standard Error: 1790000
 Relative Standard Error: 13.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.225817	50.0	2022878.0	0.451634	N
2	IC 280-621220/20	1.0	0.422757	50.0	2130300.0	0.422757	Y
3	IC 280-621220/19	2.0	0.984288	50.0	2179494.0	0.492144	Y
4	IC 280-621220/18	5.0	3.003744	50.0	2161519.0	0.600749	Y
5	IC 280-621220/17	10.0	4.762418	50.0	2216038.0	0.476242	Y
6	ICIS 280-621220/16	50.0	21.745077	50.0	2317582.0	0.434902	Y
7	IC 280-621220/15	75.0	30.958325	50.0	2262624.0	0.412778	Y
8	IC 280-621220/14	100.0	42.308137	50.0	2263977.0	0.423081	Y
9	IC 280-621220/13	200.0	89.56634	50.0	2209843.0	0.447832	Y



Calibration

/ Trichlorofluoromethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

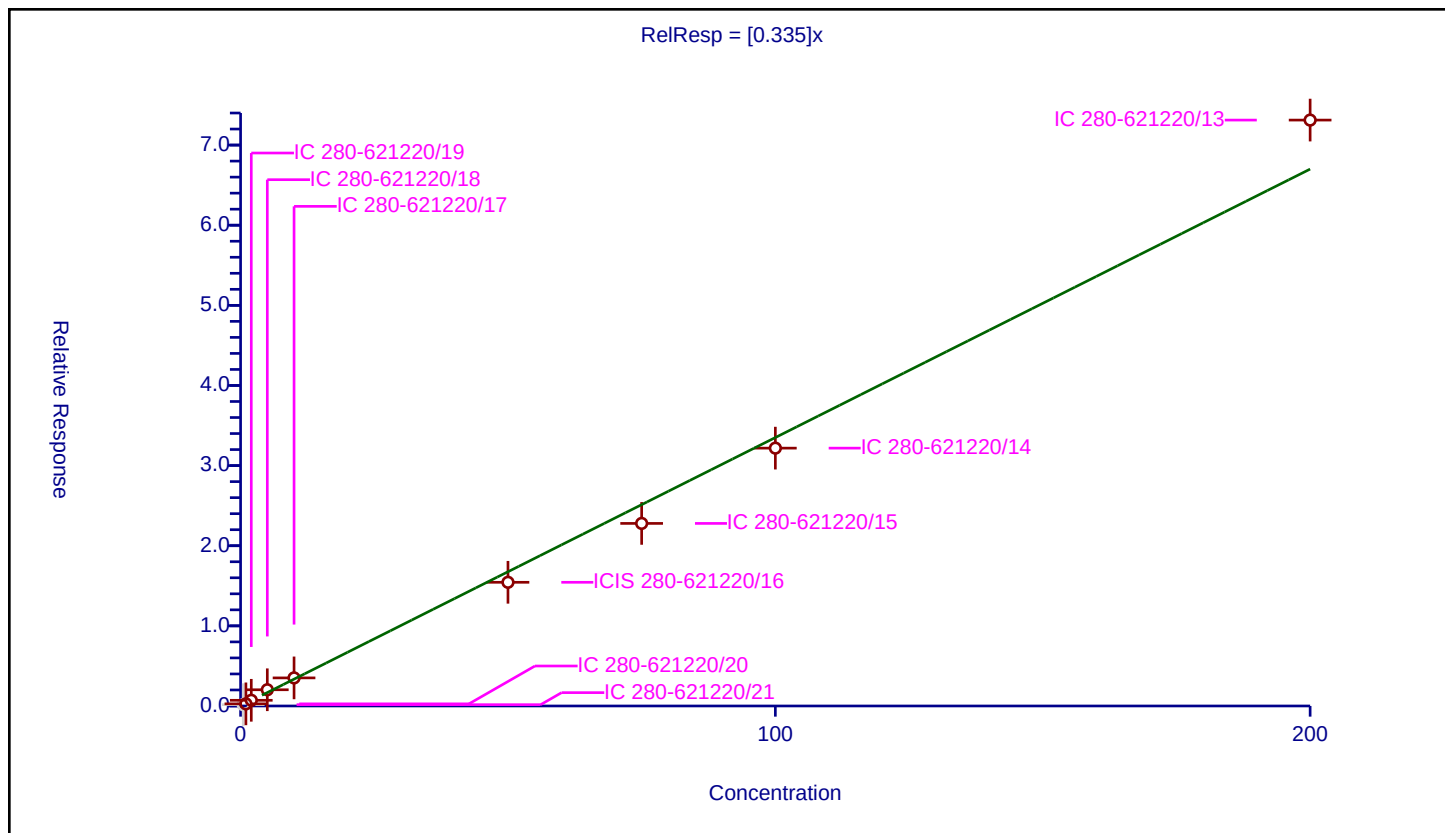
Curve Coefficients

Intercept: 0
Slope: 0.335

Error Coefficients

Standard Error: 1420000
Relative Standard Error: 12.8
Correlation Coefficient: 0.995
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.166051	50.0	2022878.0	0.332101	N
2	IC 280-621220/20	1.0	0.268413	50.0	2130300.0	0.268413	Y
3	IC 280-621220/19	2.0	0.711885	50.0	2179494.0	0.355943	Y
4	IC 280-621220/18	5.0	2.025404	50.0	2161519.0	0.405081	Y
5	IC 280-621220/17	10.0	3.507295	50.0	2216038.0	0.35073	Y
6	ICIS 280-621220/16	50.0	15.436131	50.0	2317582.0	0.308723	Y
7	IC 280-621220/15	75.0	22.78569	50.0	2262624.0	0.303809	Y
8	IC 280-621220/14	100.0	32.178684	50.0	2263977.0	0.321787	Y
9	IC 280-621220/13	200.0	73.117231	50.0	2209843.0	0.365586	Y



Calibration

/ Ethyl ether

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

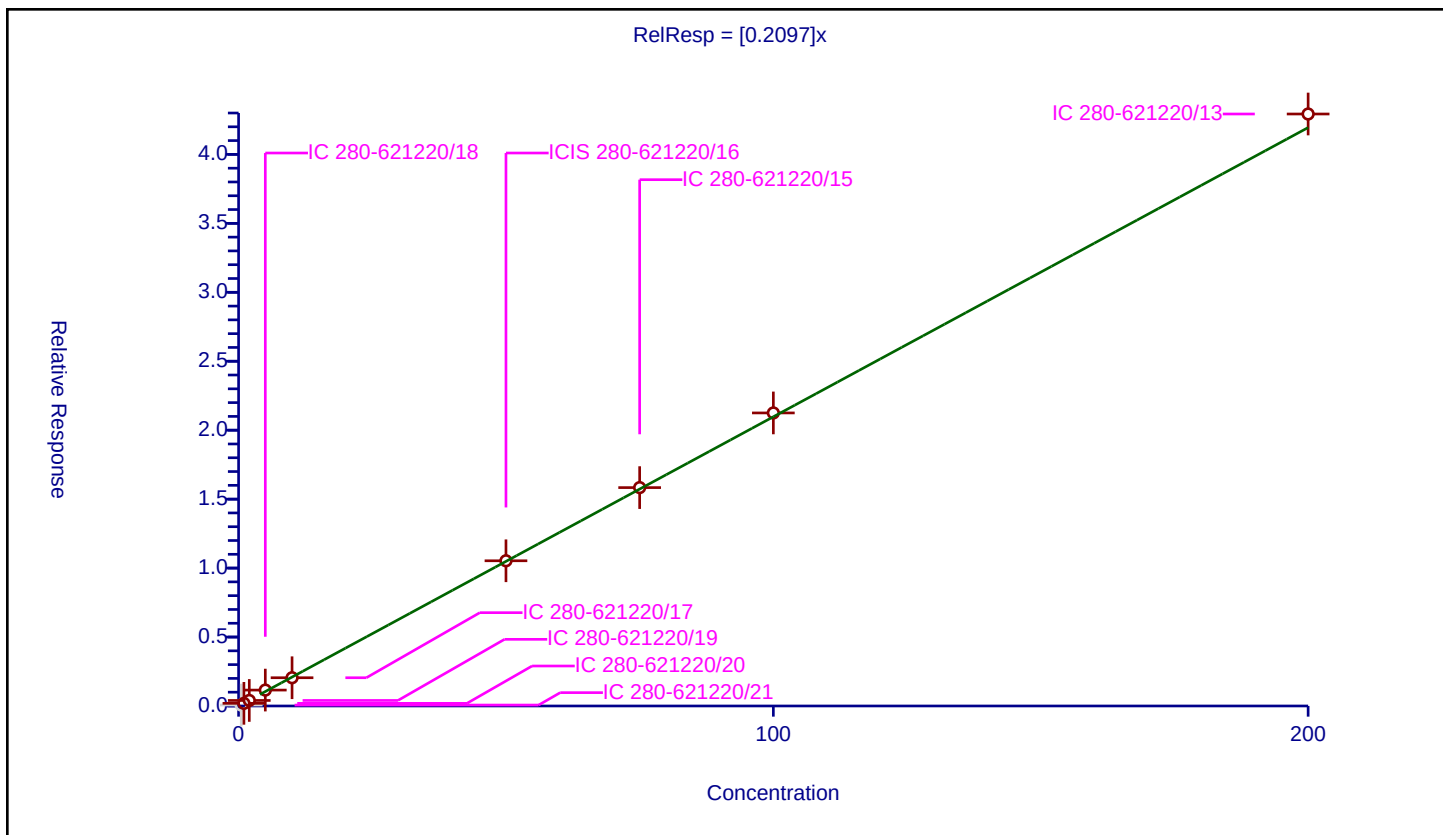
Curve Coefficients

Intercept: 0
Slope: 0.2097

Error Coefficients

Standard Error: 869000
Relative Standard Error: 5.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.069233	50.0	2022878.0	0.138466	N
2	IC 280-621220/20	1.0	0.192907	50.0	2130300.0	0.192907	Y
3	IC 280-621220/19	2.0	0.400712	50.0	2179494.0	0.200356	Y
4	IC 280-621220/18	5.0	1.153679	50.0	2161519.0	0.230736	Y
5	IC 280-621220/17	10.0	2.048498	50.0	2216038.0	0.20485	Y
6	ICIS 280-621220/16	50.0	10.529876	50.0	2317582.0	0.210598	Y
7	IC 280-621220/15	75.0	15.837276	50.0	2262624.0	0.211164	Y
8	IC 280-621220/14	100.0	21.250525	50.0	2263977.0	0.212505	Y
9	IC 280-621220/13	200.0	42.928887	50.0	2209843.0	0.214644	Y



Calibration

/ Acrolein

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

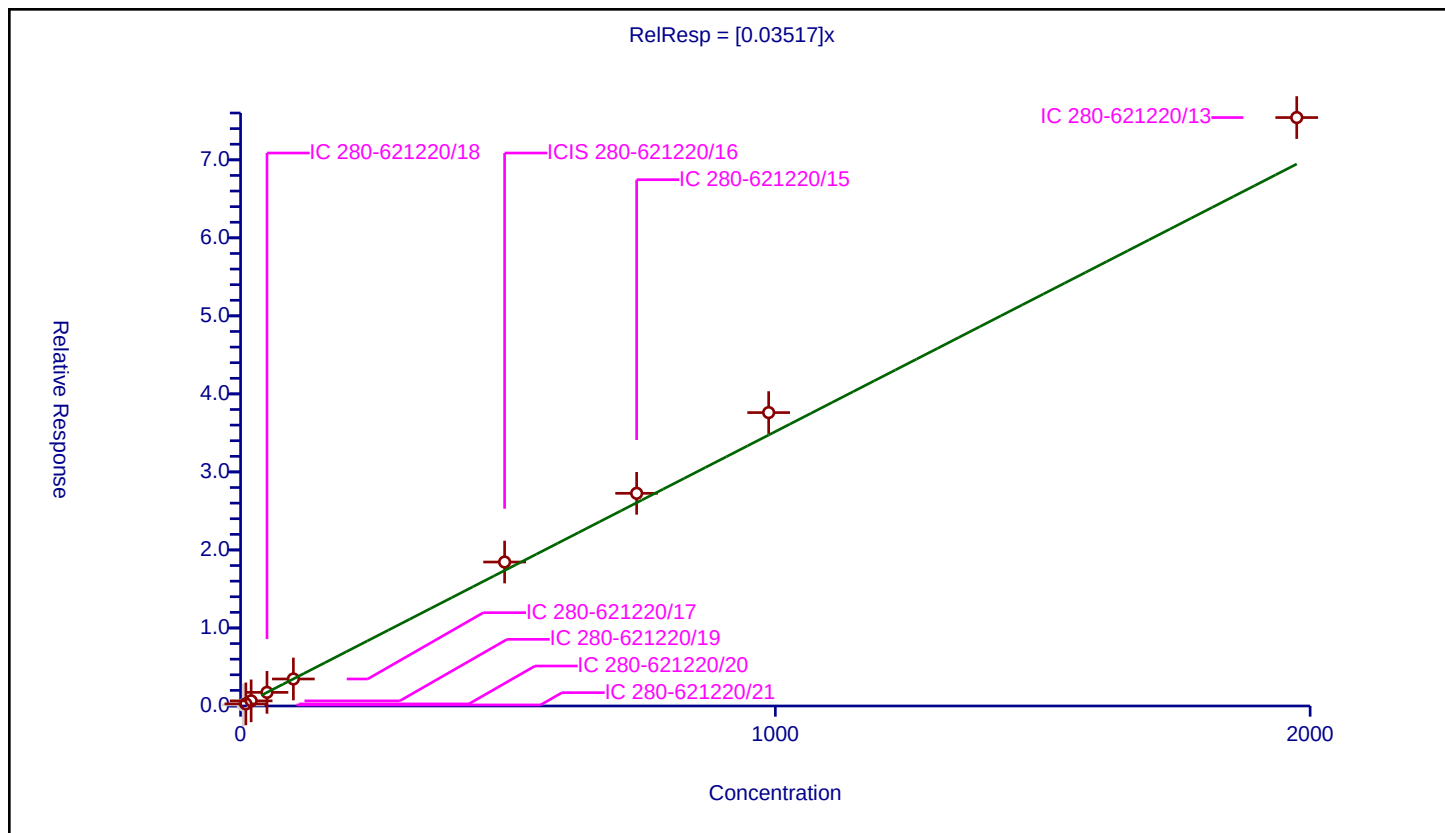
Curve Coefficients

Intercept: 0
Slope: 0.03517

Error Coefficients

Standard Error: 1530000
Relative Standard Error: 10.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	4.9375	0.139035	50.0	2022878.0	0.028159	N
2	IC 280-621220/20	9.875	0.268648	50.0	2130300.0	0.027205	Y
3	IC 280-621220/19	19.75	0.657561	50.0	2179494.0	0.033294	Y
4	IC 280-621220/18	49.375	1.746133	50.0	2161519.0	0.035365	Y
5	IC 280-621220/17	98.75	3.462125	50.0	2216038.0	0.035059	Y
6	ICIS 280-621220/16	493.75	18.451429	50.0	2317582.0	0.03737	Y
7	IC 280-621220/15	740.625	27.259412	50.0	2262624.0	0.036806	Y
8	IC 280-621220/14	987.5	37.604821	50.0	2263977.0	0.038081	Y
9	IC 280-621220/13	1975.0	75.41848	50.0	2209843.0	0.038187	Y



Calibration

/ 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

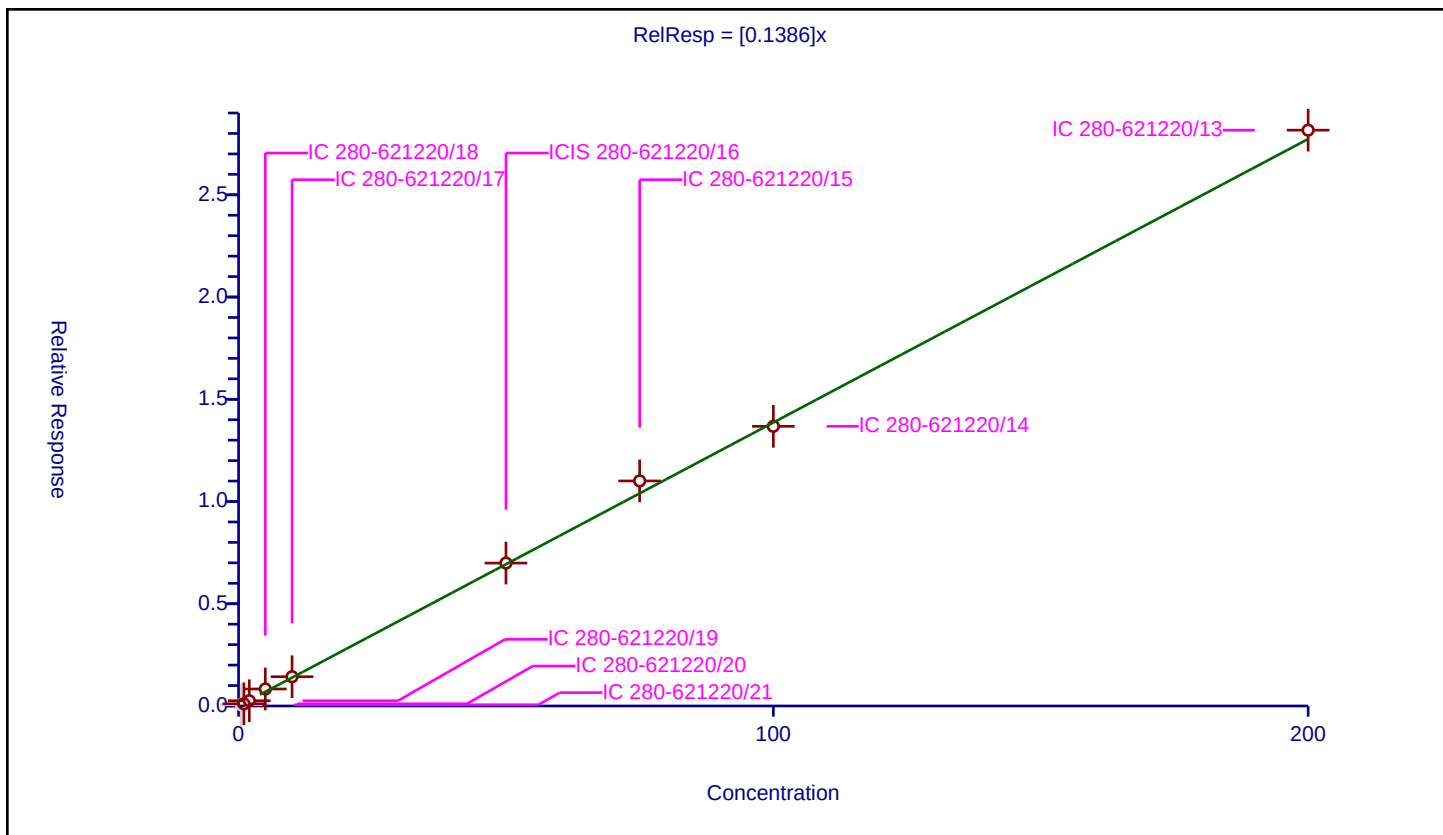
Curve Coefficients

Intercept: 0
Slope: 0.1386

Error Coefficients

Standard Error: 572000
Relative Standard Error: 12.0
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.063054	50.0	2022878.0	0.126107	N
2	IC 280-621220/20	1.0	0.107567	50.0	2130300.0	0.107567	Y
3	IC 280-621220/19	2.0	0.255862	50.0	2179494.0	0.127931	Y
4	IC 280-621220/18	5.0	0.831753	50.0	2161519.0	0.166351	Y
5	IC 280-621220/17	10.0	1.431429	50.0	2216038.0	0.143143	Y
6	ICIS 280-621220/16	50.0	6.989008	50.0	2317582.0	0.13978	Y
7	IC 280-621220/15	75.0	11.00669	50.0	2262624.0	0.146756	Y
8	IC 280-621220/14	100.0	13.676994	50.0	2263977.0	0.13677	Y
9	IC 280-621220/13	200.0	28.161729	50.0	2209843.0	0.140809	Y



Calibration

/ 1,1-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

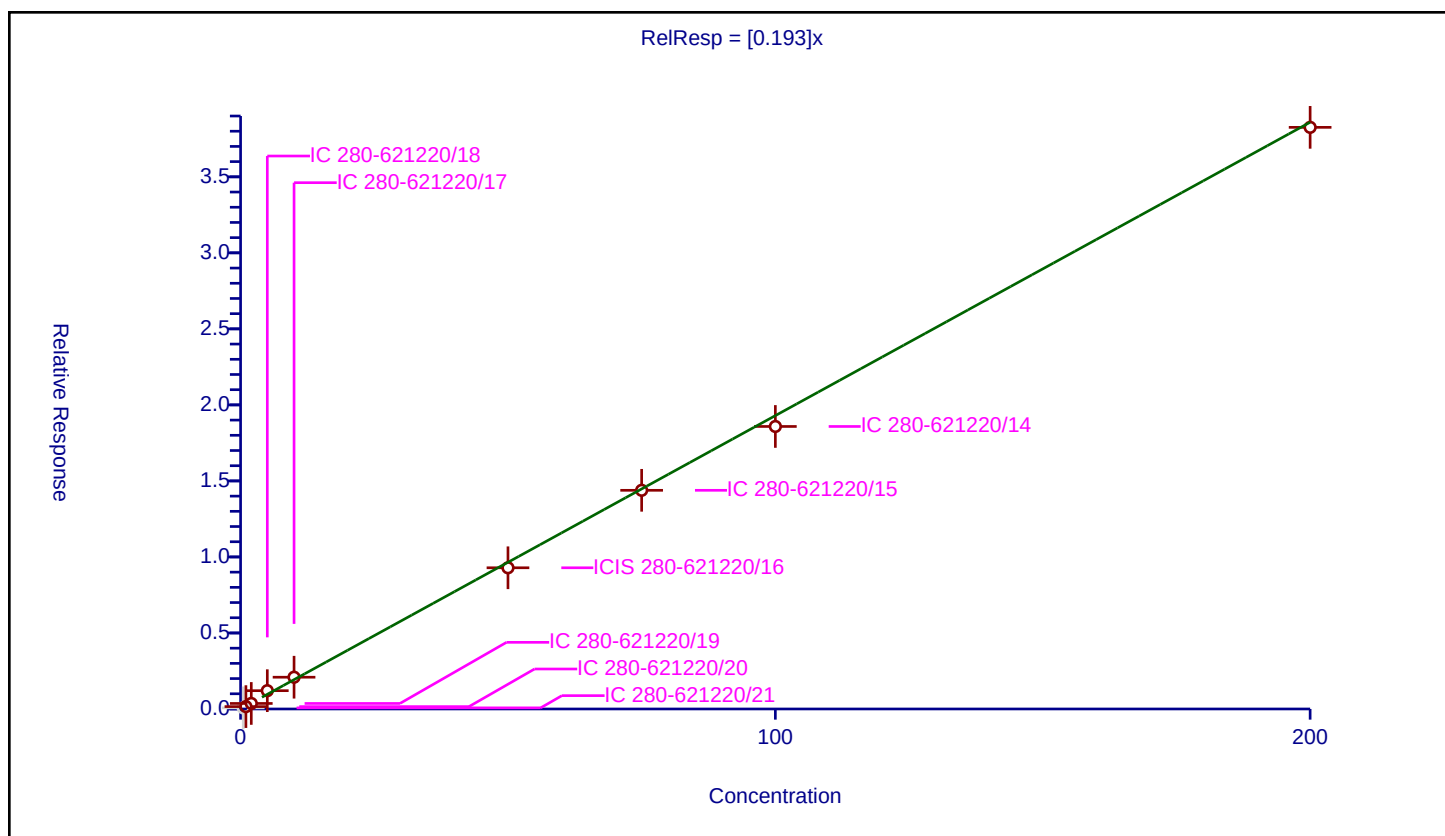
Curve Coefficients

Intercept: 0
Slope: 0.193

Error Coefficients

Standard Error: 773000
Relative Standard Error: 12.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.075042	50.0	2022878.0	0.150083	N
2	IC 280-621220/20	1.0	0.157208	50.0	2130300.0	0.157208	Y
3	IC 280-621220/19	2.0	0.364328	50.0	2179494.0	0.182164	Y
4	IC 280-621220/18	5.0	1.20332	50.0	2161519.0	0.240664	Y
5	IC 280-621220/17	10.0	2.089969	50.0	2216038.0	0.208997	Y
6	ICIS 280-621220/16	50.0	9.287158	50.0	2317582.0	0.185743	Y
7	IC 280-621220/15	75.0	14.38193	50.0	2262624.0	0.191759	Y
8	IC 280-621220/14	100.0	18.581395	50.0	2263977.0	0.185814	Y
9	IC 280-621220/13	200.0	38.253736	50.0	2209843.0	0.191269	Y



Calibration

/ Acetone

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

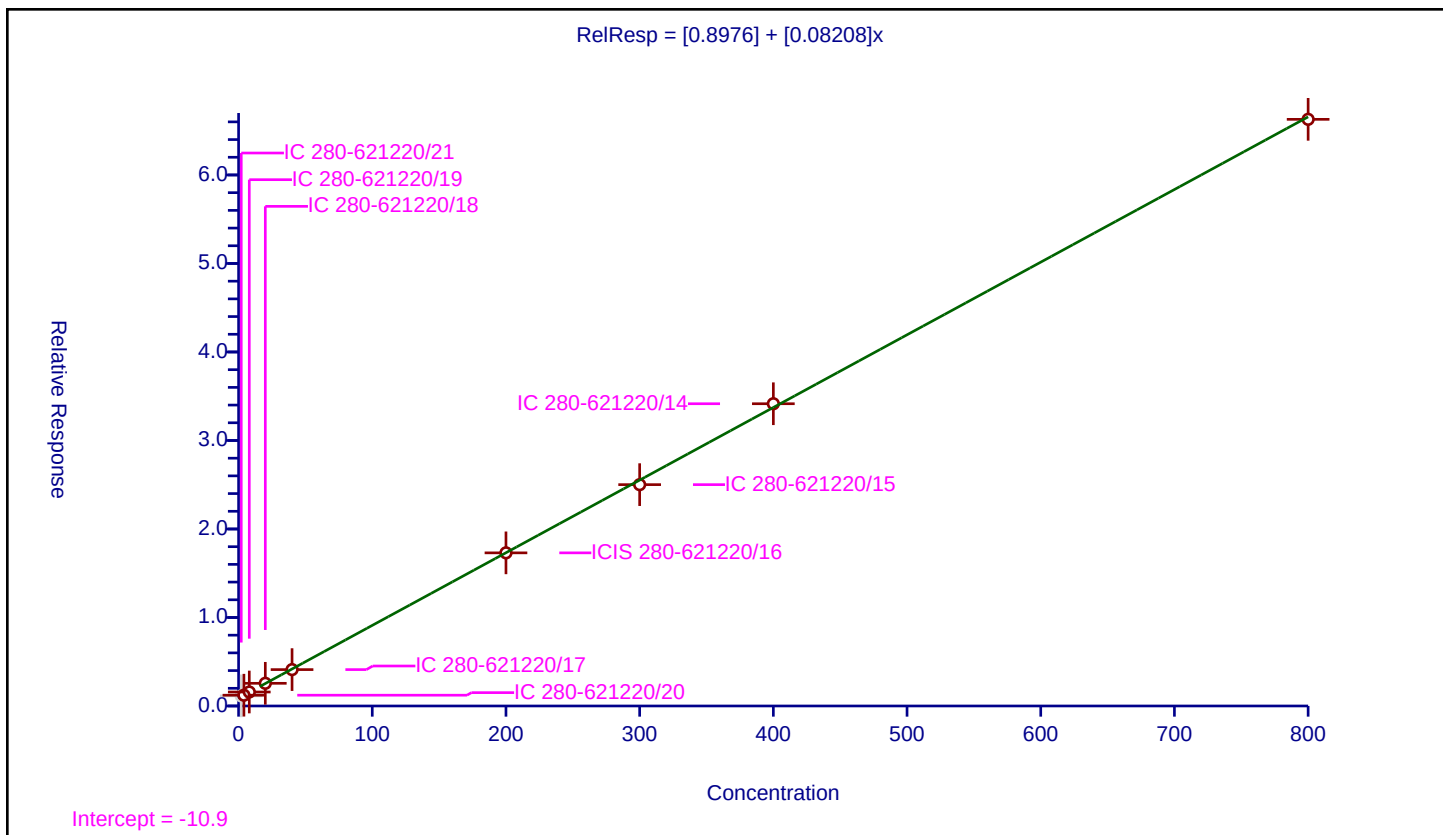
Curve Coefficients

Intercept: 0.8976
Slope: 0.08208

Error Coefficients

Standard Error: 1470000
Relative Standard Error: 2.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	2.0	1.142778	50.0	2022878.0	0.571389	N
2	IC 280-621220/20	4.0	1.218983	50.0	2130300.0	0.304746	Y
3	IC 280-621220/19	8.0	1.581124	50.0	2179494.0	0.19764	Y
4	IC 280-621220/18	20.0	2.562897	50.0	2161519.0	0.128145	Y
5	IC 280-621220/17	40.0	4.110263	50.0	2216038.0	0.102757	Y
6	ICIS 280-621220/16	200.0	17.303832	50.0	2317582.0	0.086519	Y
7	IC 280-621220/15	300.0	25.010872	50.0	2262624.0	0.08337	Y
8	IC 280-621220/14	400.0	34.152511	50.0	2263977.0	0.085381	Y
9	IC 280-621220/13	800.0	66.285139	50.0	2209843.0	0.082856	Y



Calibration

/ Iodomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

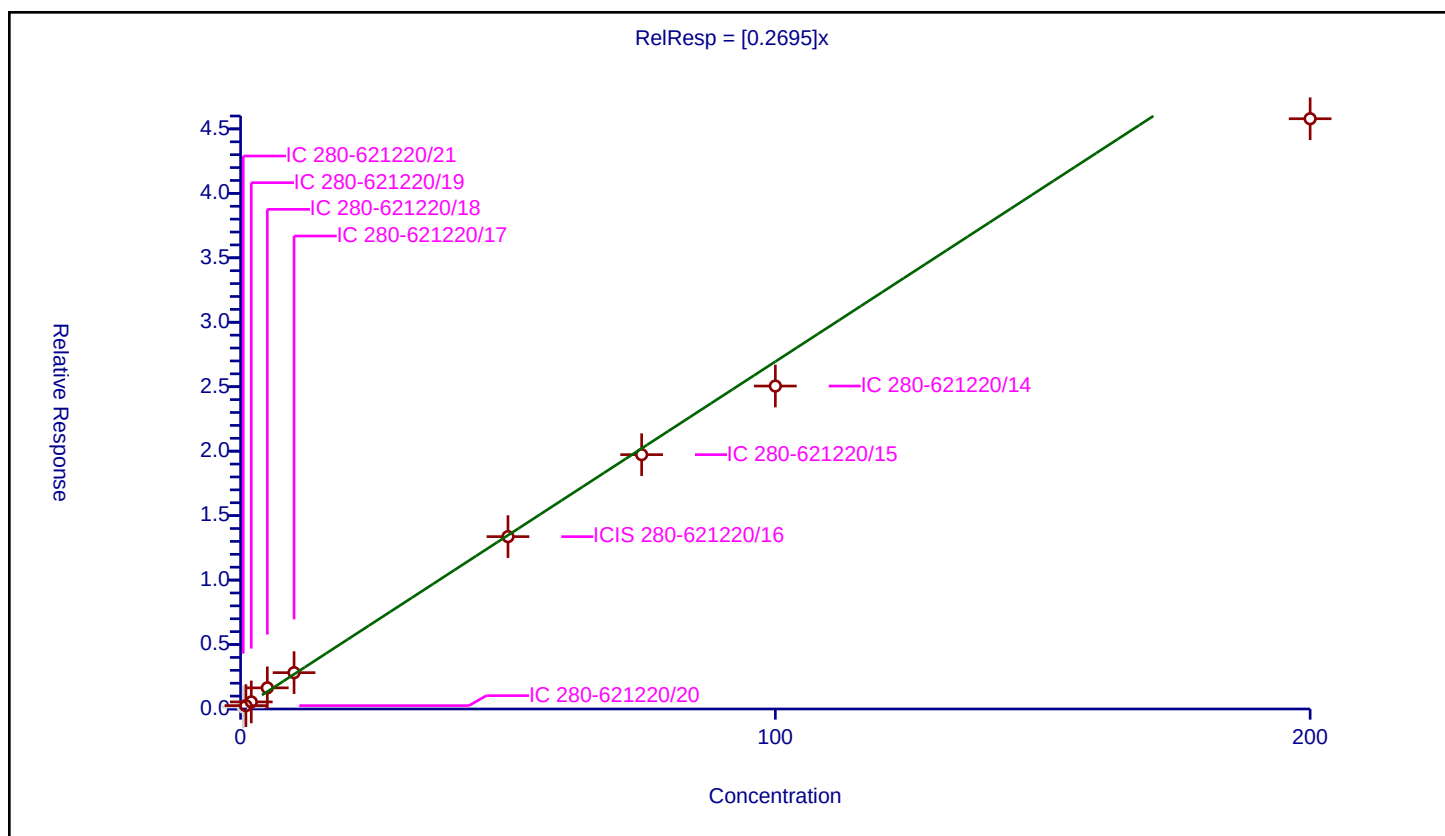
Curve Coefficients

Intercept: 0
Slope: 0.2695

Error Coefficients

Standard Error: 970000
Relative Standard Error: 10.6
Correlation Coefficient: 0.993
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.154409	50.0	2022878.0	0.308817	N
2	IC 280-621220/20	1.0	0.261512	50.0	2130300.0	0.261512	Y
3	IC 280-621220/19	2.0	0.549439	50.0	2179494.0	0.27472	Y
4	IC 280-621220/18	5.0	1.64005	50.0	2161519.0	0.32801	Y
5	IC 280-621220/17	10.0	2.818047	50.0	2216038.0	0.281805	Y
6	ICIS 280-621220/16	50.0	13.370185	50.0	2317582.0	0.267404	Y
7	IC 280-621220/15	75.0	19.730499	50.0	2262624.0	0.263073	Y
8	IC 280-621220/14	100.0	25.052816	50.0	2263977.0	0.250528	Y
9	IC 280-621220/13	200.0	45.788185	50.0	2209843.0	0.228941	Y



Calibration

/ Carbon disulfide

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

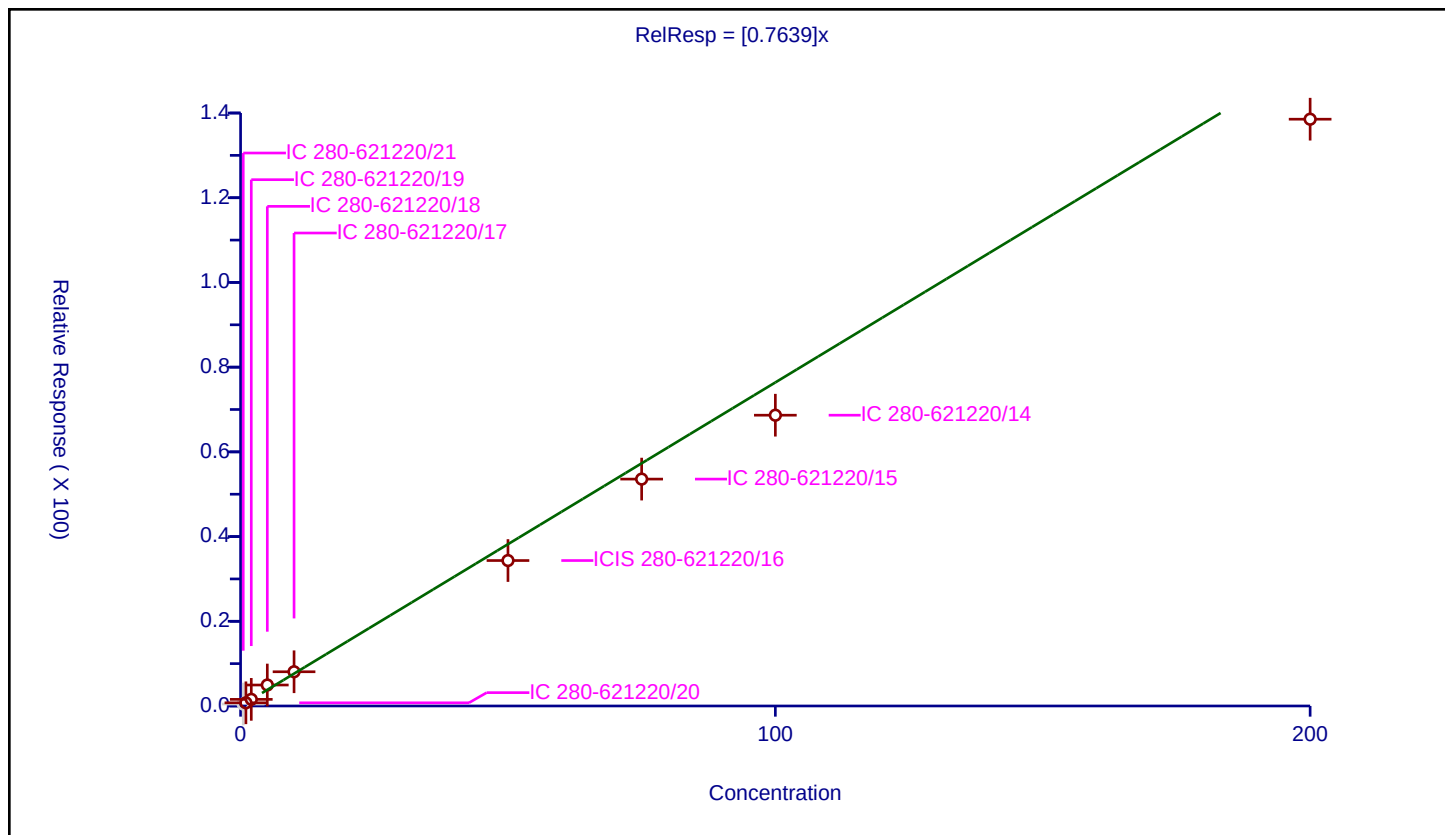
Curve Coefficients

Intercept: 0
 Slope: 0.7639

Error Coefficients

Standard Error: 2820000
 Relative Standard Error: 13.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.460853	50.0	2022878.0	0.921707	N
2	IC 280-621220/20	1.0	0.751631	50.0	2130300.0	0.751631	Y
3	IC 280-621220/19	2.0	1.562977	50.0	2179494.0	0.781489	Y
4	IC 280-621220/18	5.0	4.948858	50.0	2161519.0	0.989772	Y
5	IC 280-621220/17	10.0	8.082307	50.0	2216038.0	0.808231	Y
6	ICIS 280-621220/16	50.0	34.340123	50.0	2317582.0	0.686802	Y
7	IC 280-621220/15	75.0	53.569882	50.0	2262624.0	0.714265	Y
8	IC 280-621220/14	100.0	68.652663	50.0	2263977.0	0.686527	Y
9	IC 280-621220/13	200.0	138.538914	50.0	2209843.0	0.692695	Y



Calibration

/ Methyl acetate

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

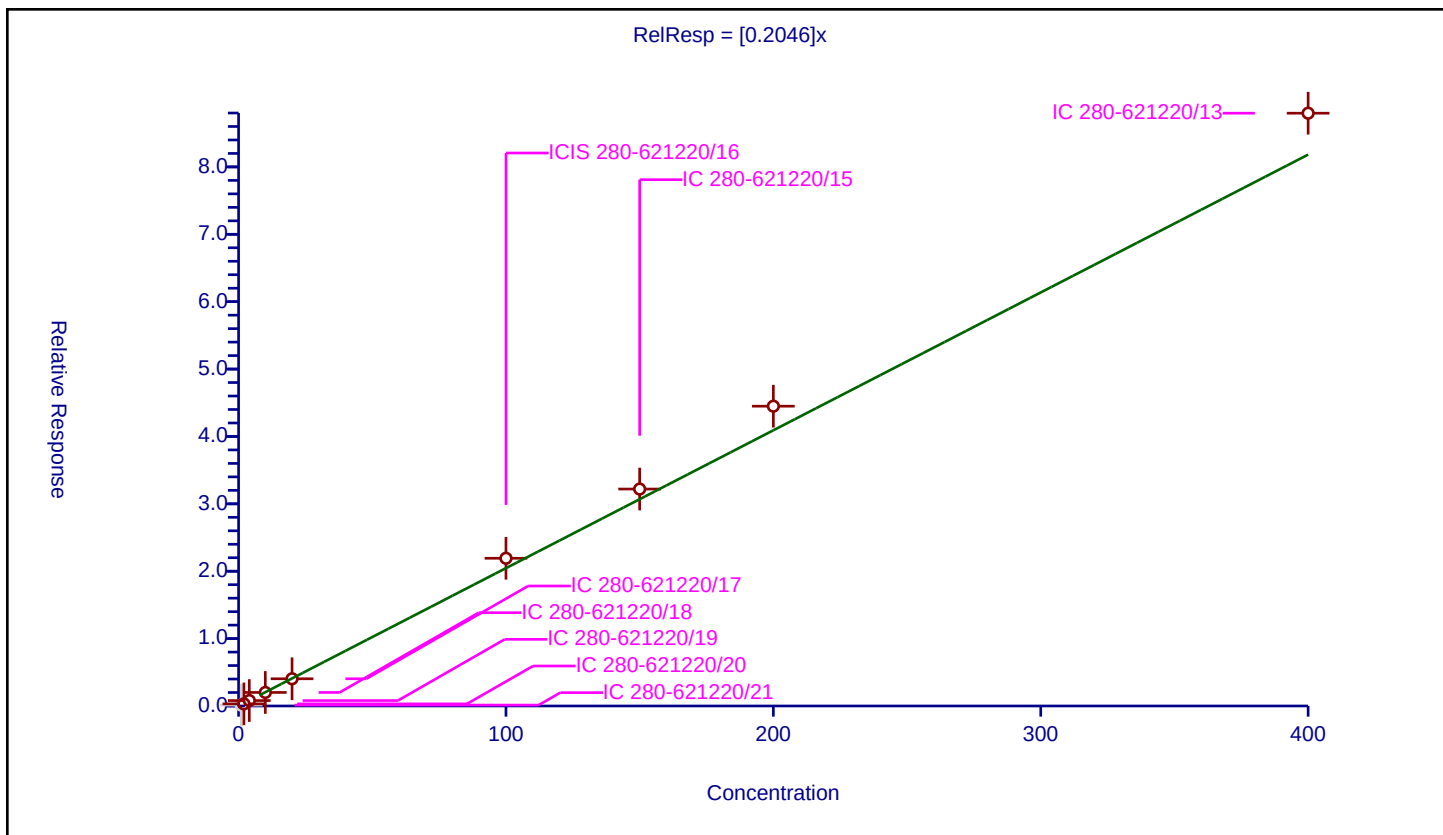
Curve Coefficients

Intercept: 0
Slope: 0.2046

Error Coefficients

Standard Error: 1790000
Relative Standard Error: 10.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	1.0	0.135945	50.0	2022878.0	0.135945	N
2	IC 280-621220/20	2.0	0.31289	50.0	2130300.0	0.156445	Y
3	IC 280-621220/19	4.0	0.804751	50.0	2179494.0	0.201188	Y
4	IC 280-621220/18	10.0	2.006668	50.0	2161519.0	0.200667	Y
5	IC 280-621220/17	20.0	4.0391	50.0	2216038.0	0.201955	Y
6	ICIS 280-621220/16	100.0	21.92108	50.0	2317582.0	0.219211	Y
7	IC 280-621220/15	150.0	32.195451	50.0	2262624.0	0.214636	Y
8	IC 280-621220/14	200.0	44.490359	50.0	2263977.0	0.222452	Y
9	IC 280-621220/13	400.0	87.973738	50.0	2209843.0	0.219934	Y



Calibration

/ 3-Chloro-1-propene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

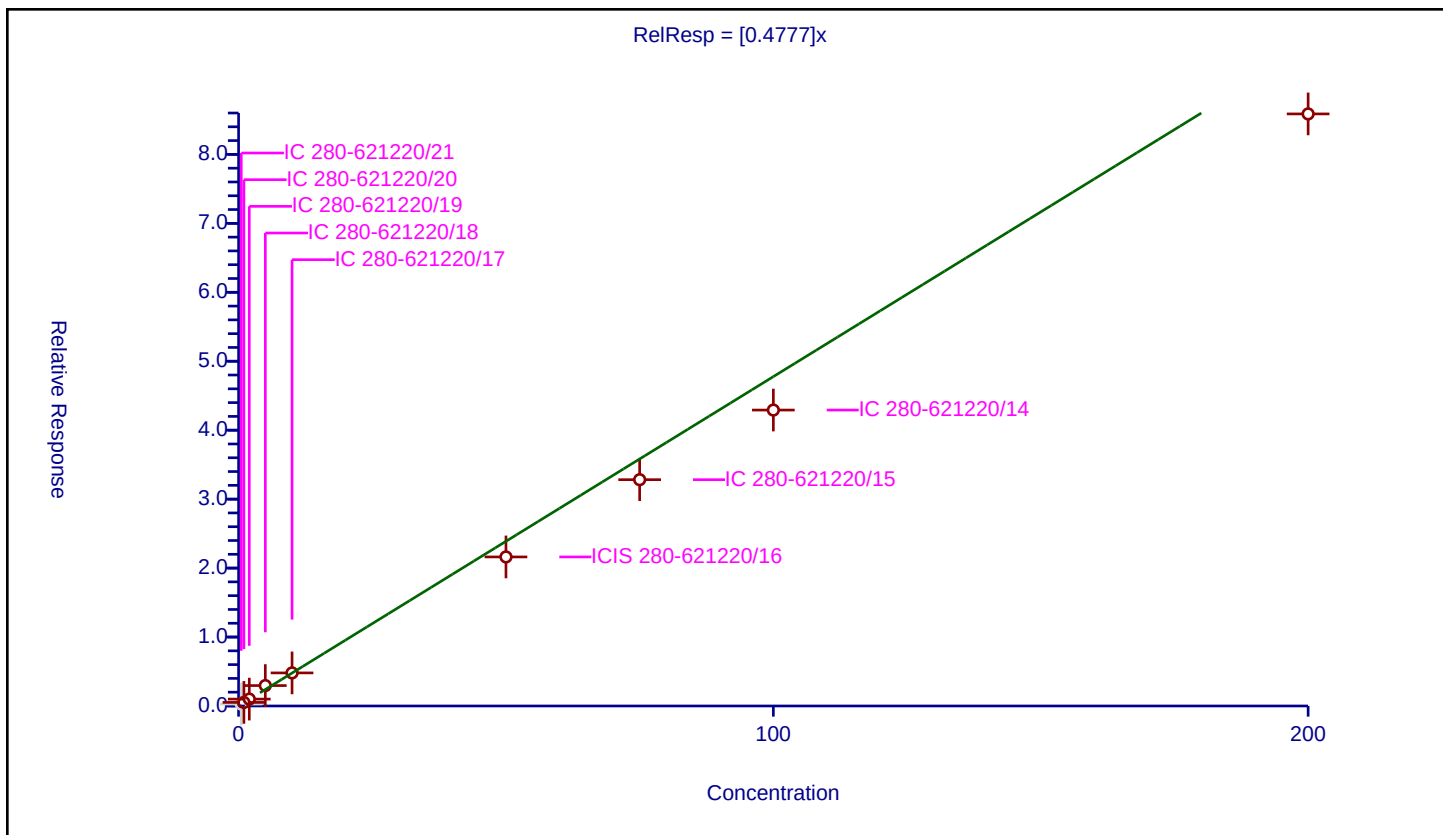
Curve Coefficients

Intercept: 0
Slope: 0.4777

Error Coefficients

Standard Error: 1750000
Relative Standard Error: 12.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.280269	50.0	2022878.0	0.560538	N
2	IC 280-621220/20	1.0	0.52164	50.0	2130300.0	0.52164	Y
3	IC 280-621220/19	2.0	0.998236	50.0	2179494.0	0.499118	Y
4	IC 280-621220/18	5.0	2.961089	50.0	2161519.0	0.592218	Y
5	IC 280-621220/17	10.0	4.799489	50.0	2216038.0	0.479949	Y
6	ICIS 280-621220/16	50.0	21.617854	50.0	2317582.0	0.432357	Y
7	IC 280-621220/15	75.0	32.820411	50.0	2262624.0	0.437605	Y
8	IC 280-621220/14	100.0	42.918766	50.0	2263977.0	0.429188	Y
9	IC 280-621220/13	200.0	85.868702	50.0	2209843.0	0.429344	Y



Calibration

/ Methylene Chloride

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

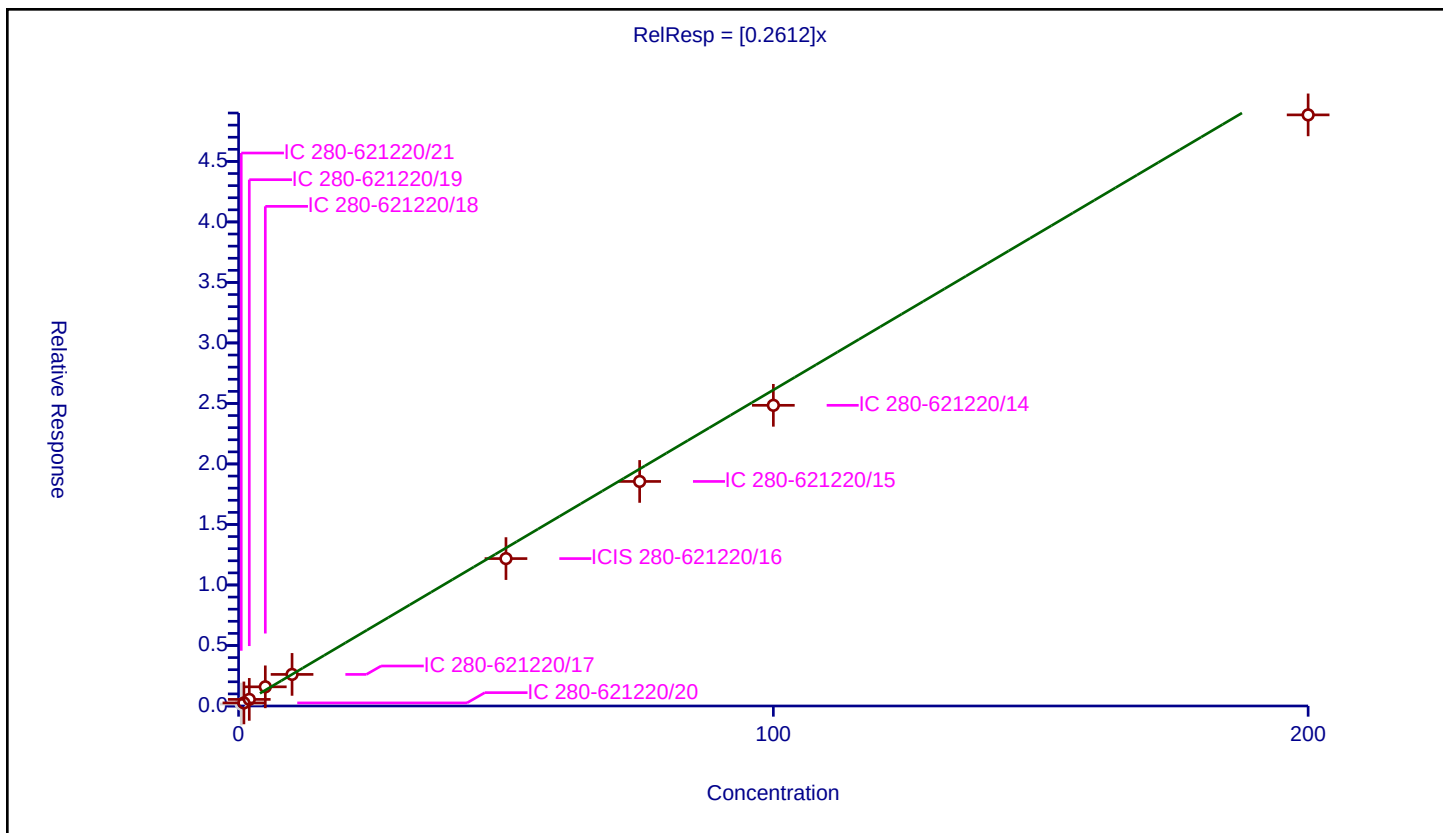
Curve Coefficients

Intercept: 0
 Slope: 0.2612

Error Coefficients

Standard Error: 998000
 Relative Standard Error: 9.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.160712	50.0	2022878.0	0.321423	N
2	IC 280-621220/20	1.0	0.255035	50.0	2130300.0	0.255035	Y
3	IC 280-621220/19	2.0	0.546113	50.0	2179494.0	0.273056	Y
4	IC 280-621220/18	5.0	1.582336	50.0	2161519.0	0.316467	Y
5	IC 280-621220/17	10.0	2.609522	50.0	2216038.0	0.260952	Y
6	ICIS 280-621220/16	50.0	12.180756	50.0	2317582.0	0.243615	Y
7	IC 280-621220/15	75.0	18.555469	50.0	2262624.0	0.247406	Y
8	IC 280-621220/14	100.0	24.846211	50.0	2263977.0	0.248462	Y
9	IC 280-621220/13	200.0	48.845303	50.0	2209843.0	0.244227	Y



Calibration

/ 2-Methyl-2-propanol

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

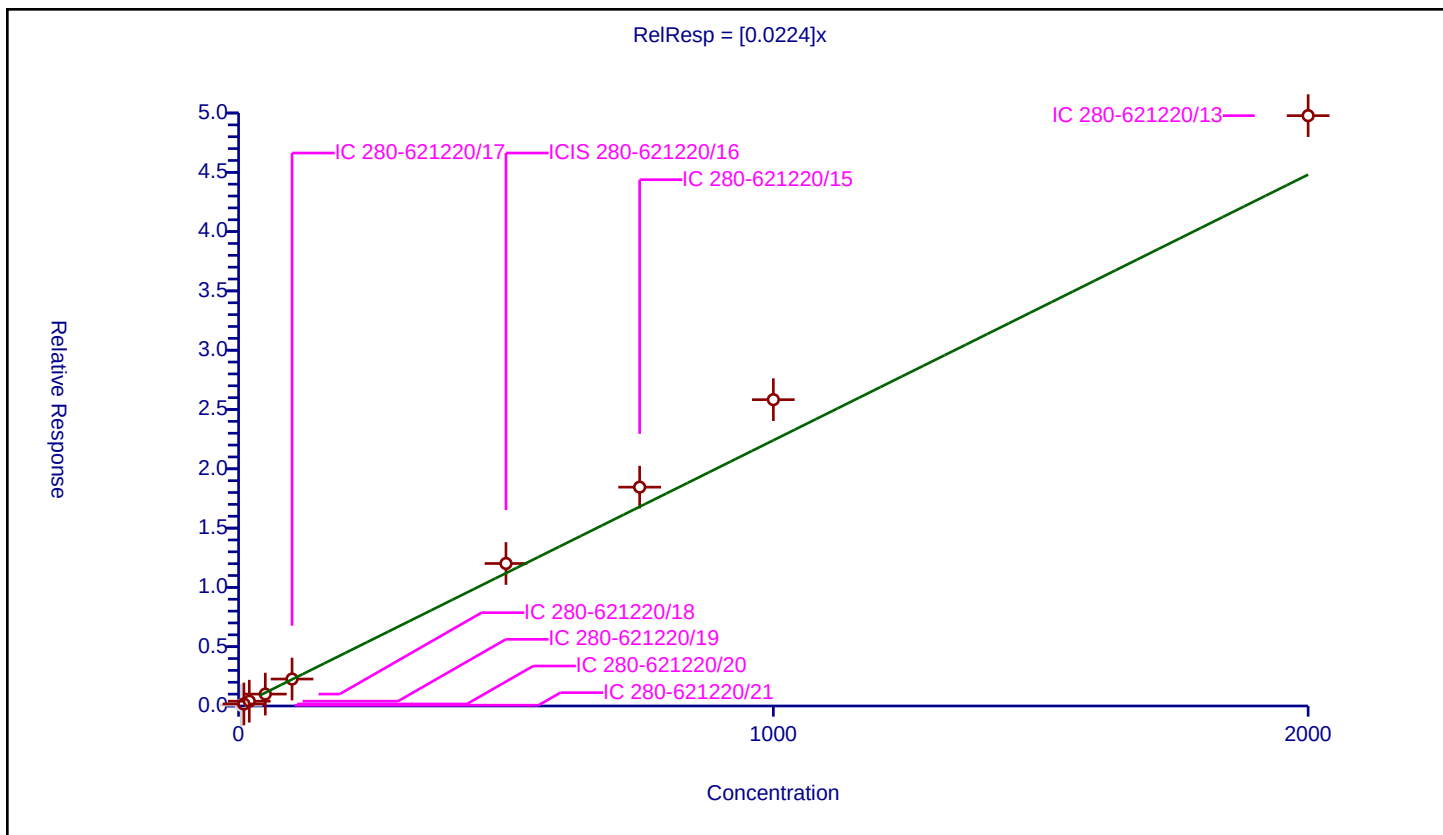
Curve Coefficients

Intercept: 0
 Slope: 0.0224

Error Coefficients

Standard Error: 1020000
 Relative Standard Error: 13.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	5.0	0.068936	50.0	2022878.0	0.013787	N
2	IC 280-621220/20	10.0	0.169061	50.0	2130300.0	0.016906	Y
3	IC 280-621220/19	20.0	0.403419	50.0	2179494.0	0.020171	Y
4	IC 280-621220/18	50.0	1.003715	50.0	2161519.0	0.020074	Y
5	IC 280-621220/17	100.0	2.271554	50.0	2216038.0	0.022716	Y
6	ICIS 280-621220/16	500.0	12.014505	50.0	2317582.0	0.024029	Y
7	IC 280-621220/15	750.0	18.453663	50.0	2262624.0	0.024605	Y
8	IC 280-621220/14	1000.0	25.830629	50.0	2263977.0	0.025831	Y
9	IC 280-621220/13	2000.0	49.776319	50.0	2209843.0	0.024888	Y



Calibration

/ Acrylonitrile

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

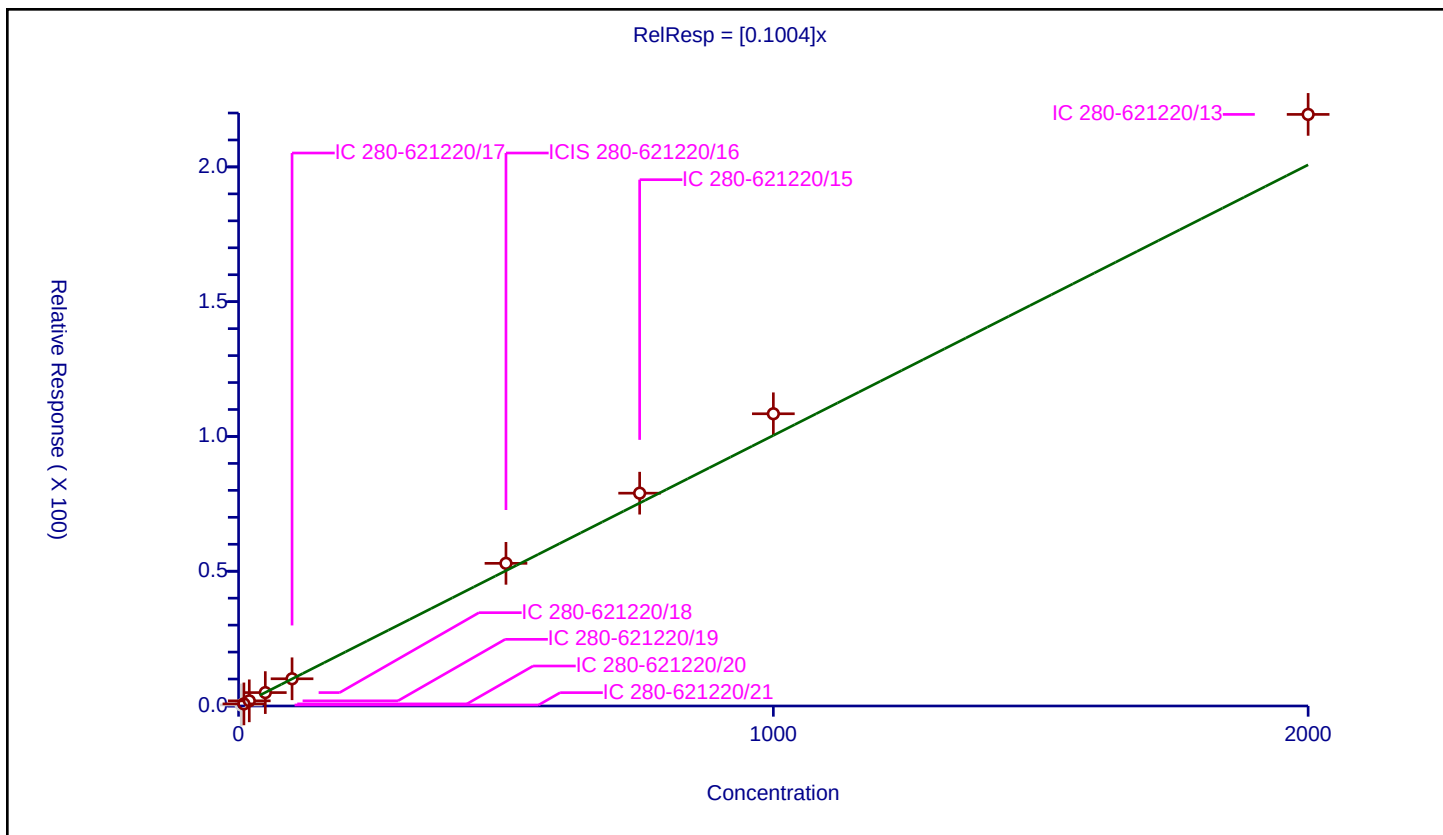
Curve Coefficients

Intercept: 0
 Slope: 0.1004

Error Coefficients

Standard Error: 4430000
 Relative Standard Error: 10.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	5.0	0.380646	50.0	2022878.0	0.076129	N
2	IC 280-621220/20	10.0	0.776792	50.0	2130300.0	0.077679	Y
3	IC 280-621220/19	20.0	1.91338	50.0	2179494.0	0.095669	Y
4	IC 280-621220/18	50.0	4.975459	50.0	2161519.0	0.099509	Y
5	IC 280-621220/17	100.0	10.095833	50.0	2216038.0	0.100958	Y
6	ICIS 280-621220/16	500.0	52.925074	50.0	2317582.0	0.10585	Y
7	IC 280-621220/15	750.0	78.953374	50.0	2262624.0	0.105271	Y
8	IC 280-621220/14	1000.0	108.419432	50.0	2263977.0	0.108419	Y
9	IC 280-621220/13	2000.0	219.488715	50.0	2209843.0	0.109744	Y



Calibration

/ Methyl tert-butyl ether

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

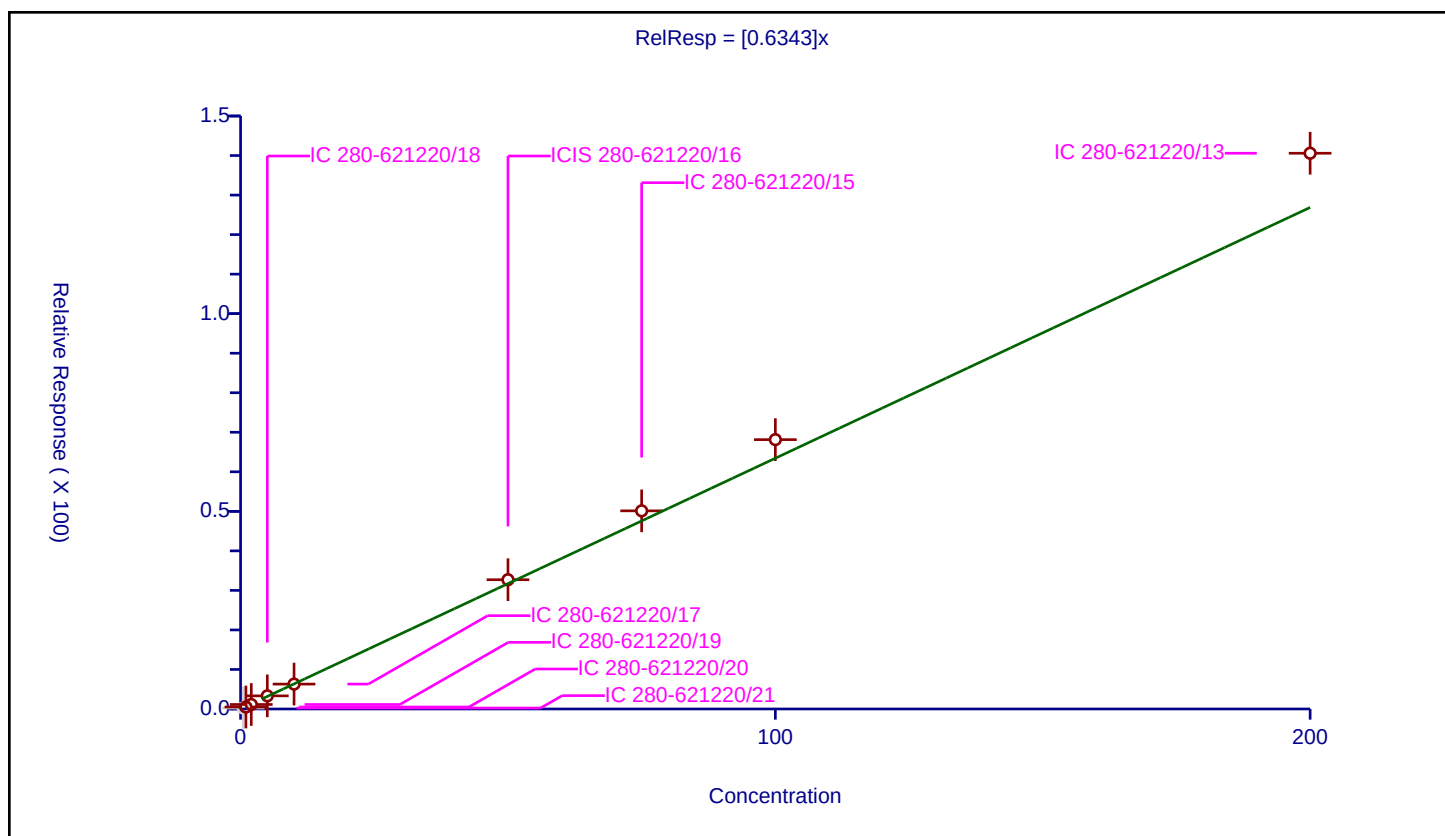
Curve Coefficients

Intercept: 0
 Slope: 0.6343

Error Coefficients

Standard Error: 2820000
 Relative Standard Error: 10.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.24784	50.0	2022878.0	0.49568	N
2	IC 280-621220/20	1.0	0.504459	50.0	2130300.0	0.504459	Y
3	IC 280-621220/19	2.0	1.139485	50.0	2179494.0	0.569742	Y
4	IC 280-621220/18	5.0	3.320605	50.0	2161519.0	0.664121	Y
5	IC 280-621220/17	10.0	6.298719	50.0	2216038.0	0.629872	Y
6	ICIS 280-621220/16	50.0	32.69798	50.0	2317582.0	0.65396	Y
7	IC 280-621220/15	75.0	50.125275	50.0	2262624.0	0.668337	Y
8	IC 280-621220/14	100.0	68.137751	50.0	2263977.0	0.681378	Y
9	IC 280-621220/13	200.0	140.581706	50.0	2209843.0	0.702909	Y



Calibration

/ trans-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

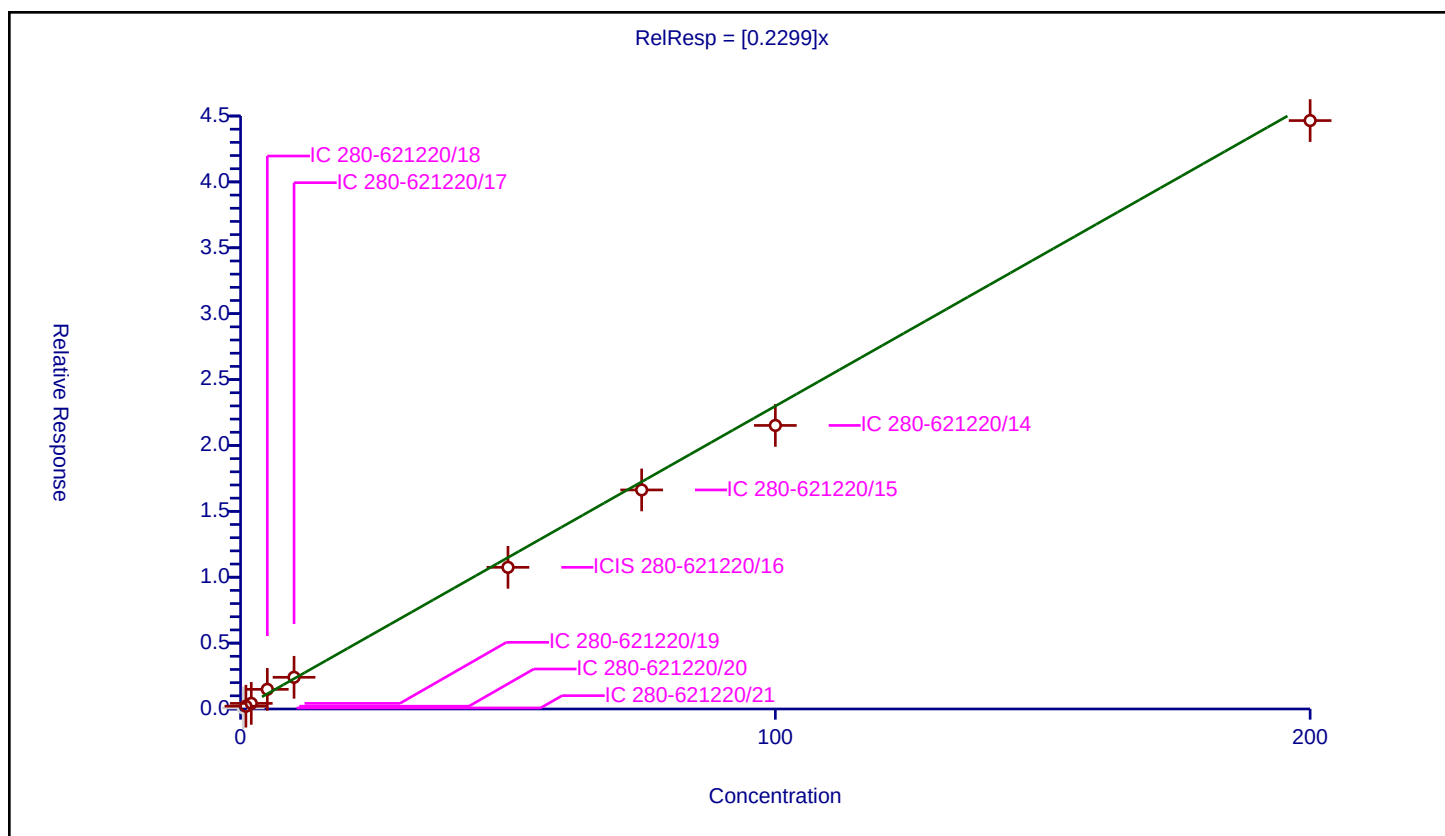
Curve Coefficients

Intercept: 0
Slope: 0.2299

Error Coefficients

Standard Error: 900000
Relative Standard Error: 12.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.079911	50.0	2022878.0	0.159822	N
2	IC 280-621220/20	1.0	0.211731	50.0	2130300.0	0.211731	Y
3	IC 280-621220/19	2.0	0.42659	50.0	2179494.0	0.213295	Y
4	IC 280-621220/18	5.0	1.490896	50.0	2161519.0	0.298179	Y
5	IC 280-621220/17	10.0	2.406141	50.0	2216038.0	0.240614	Y
6	ICIS 280-621220/16	50.0	10.751313	50.0	2317582.0	0.215026	Y
7	IC 280-621220/15	75.0	16.624083	50.0	2262624.0	0.221654	Y
8	IC 280-621220/14	100.0	21.519278	50.0	2263977.0	0.215193	Y
9	IC 280-621220/13	200.0	44.654598	50.0	2209843.0	0.223273	Y



Calibration

/ Hexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

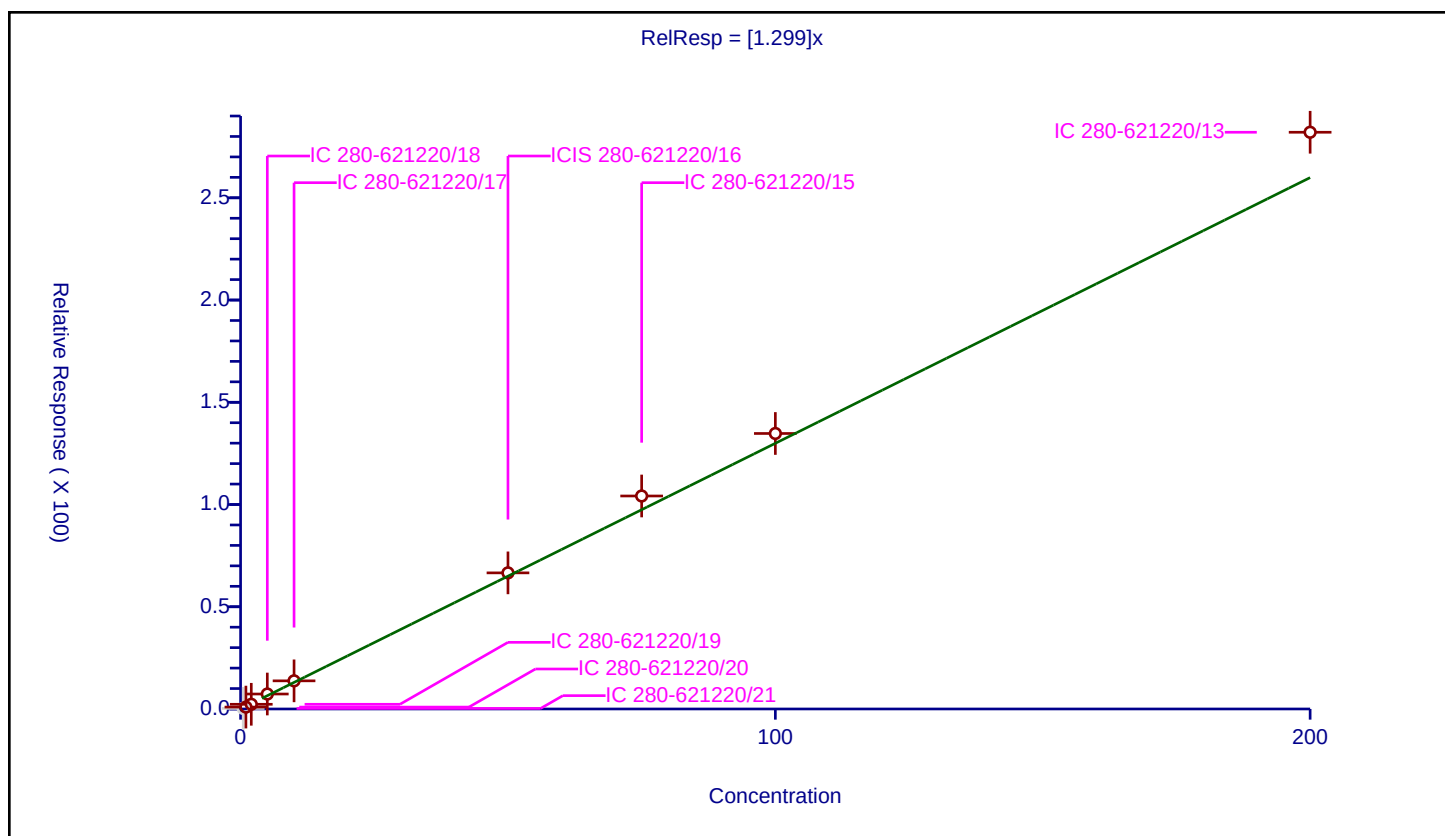
Curve Coefficients

Intercept: 0
Slope: 1.299

Error Coefficients

Standard Error: 1460000
Relative Standard Error: 13.6
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.284121	50.0	492571.0	0.568243	N
2	IC 280-621220/20	1.0	0.92718	50.0	515326.0	0.92718	Y
3	IC 280-621220/19	2.0	2.298311	50.0	532739.0	1.149156	Y
4	IC 280-621220/18	5.0	7.319276	50.0	530920.0	1.463855	Y
5	IC 280-621220/17	10.0	13.768219	50.0	540571.0	1.376822	Y
6	ICIS 280-621220/16	50.0	66.565761	50.0	571323.0	1.331315	Y
7	IC 280-621220/15	75.0	104.173481	50.0	573514.0	1.38898	Y
8	IC 280-621220/14	100.0	134.736362	50.0	570801.0	1.347364	Y
9	IC 280-621220/13	200.0	282.060139	50.0	574369.0	1.410301	Y



Calibration

/ Vinyl acetate

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

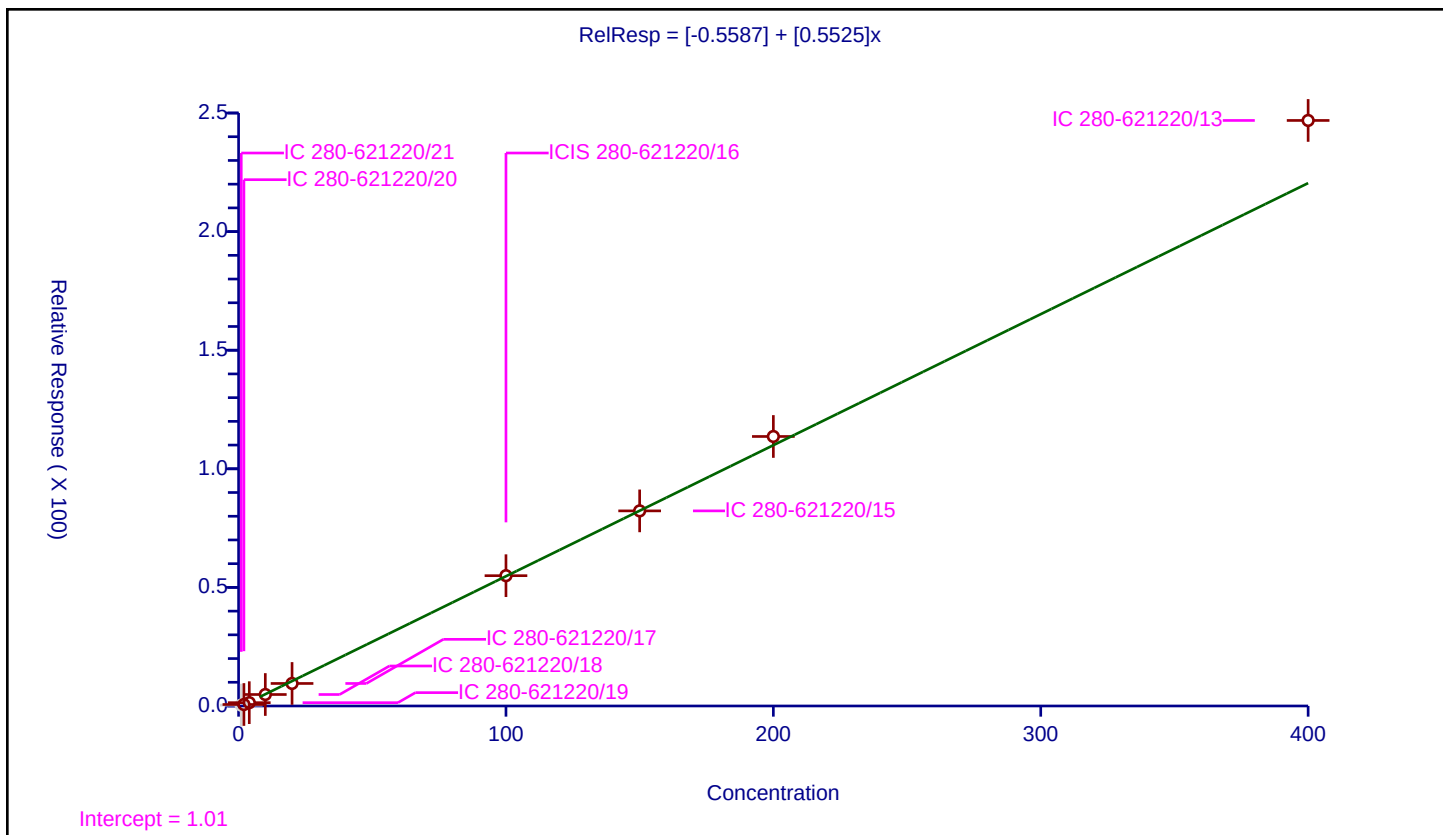
Curve Coefficients

Intercept: -0.5587
 Slope: 0.5525

Error Coefficients

Standard Error: 5260000
 Relative Standard Error: 8.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	1.0	0.368584	50.0	2022878.0	0.368584	N
2	IC 280-621220/20	2.0	0.622213	50.0	2130300.0	0.311106	Y
3	IC 280-621220/19	4.0	1.403835	50.0	2179494.0	0.350959	Y
4	IC 280-621220/18	10.0	4.83683	50.0	2161519.0	0.483683	Y
5	IC 280-621220/17	20.0	9.498483	50.0	2216038.0	0.474924	Y
6	ICIS 280-621220/16	100.0	54.941163	50.0	2317582.0	0.549412	Y
7	IC 280-621220/15	150.0	82.260972	50.0	2262624.0	0.548406	Y
8	IC 280-621220/14	200.0	113.624299	50.0	2263977.0	0.568121	Y
9	IC 280-621220/13	400.0	246.86342	50.0	2209843.0	0.617159	Y



Calibration

/ 1,1-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

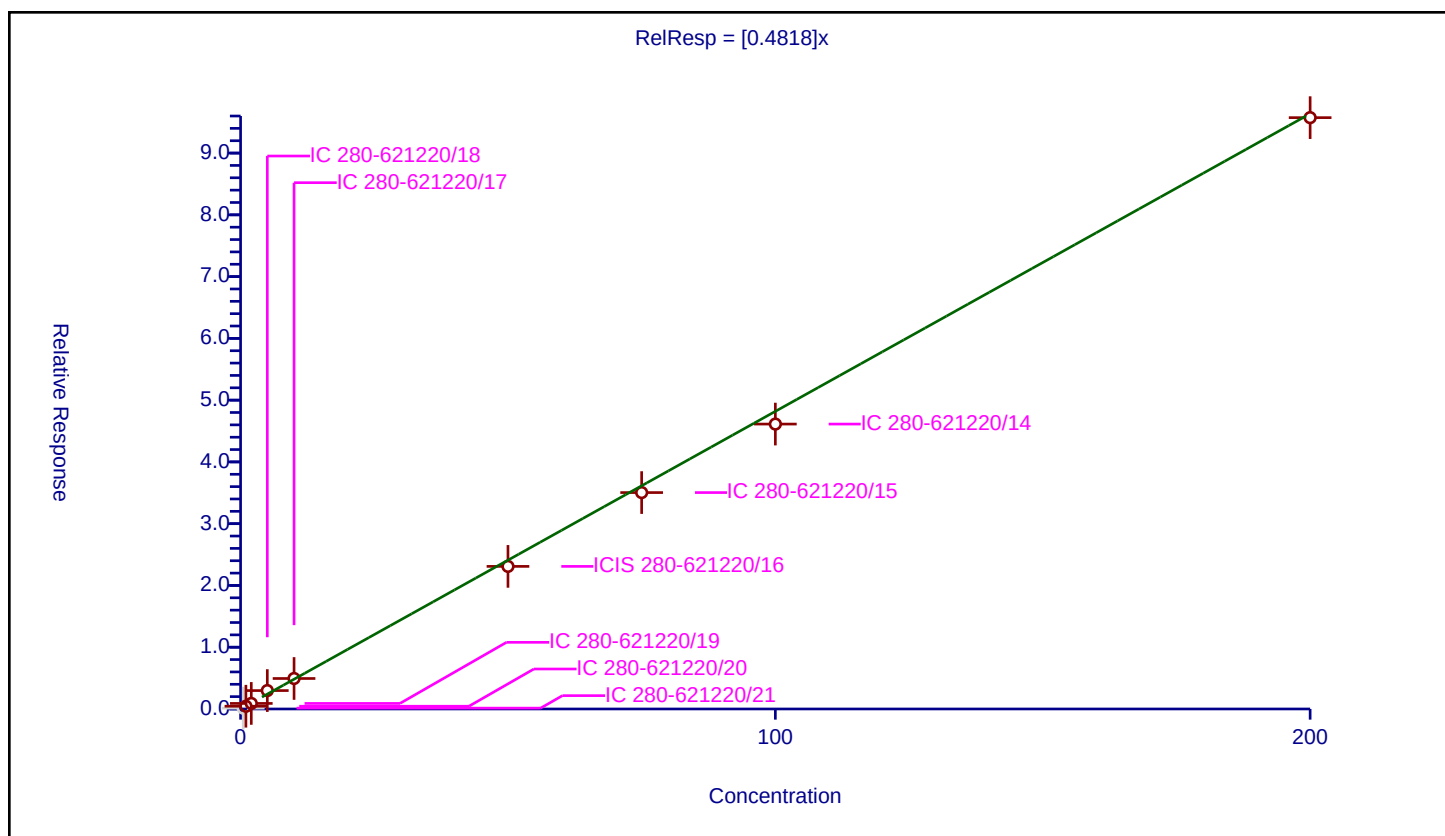
Curve Coefficients

Intercept: 0
 Slope: 0.4818

Error Coefficients

Standard Error: 1930000
 Relative Standard Error: 10.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.138862	50.0	2022878.0	0.277723	N
2	IC 280-621220/20	1.0	0.446087	50.0	2130300.0	0.446087	Y
3	IC 280-621220/19	2.0	0.8992	50.0	2179494.0	0.4496	Y
4	IC 280-621220/18	5.0	2.982972	50.0	2161519.0	0.596594	Y
5	IC 280-621220/17	10.0	4.937077	50.0	2216038.0	0.493708	Y
6	ICIS 280-621220/16	50.0	23.085267	50.0	2317582.0	0.461705	Y
7	IC 280-621220/15	75.0	35.035119	50.0	2262624.0	0.467135	Y
8	IC 280-621220/14	100.0	46.126264	50.0	2263977.0	0.461263	Y
9	IC 280-621220/13	200.0	95.736394	50.0	2209843.0	0.478682	Y



Calibration

/ 2-Butanone (MEK)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

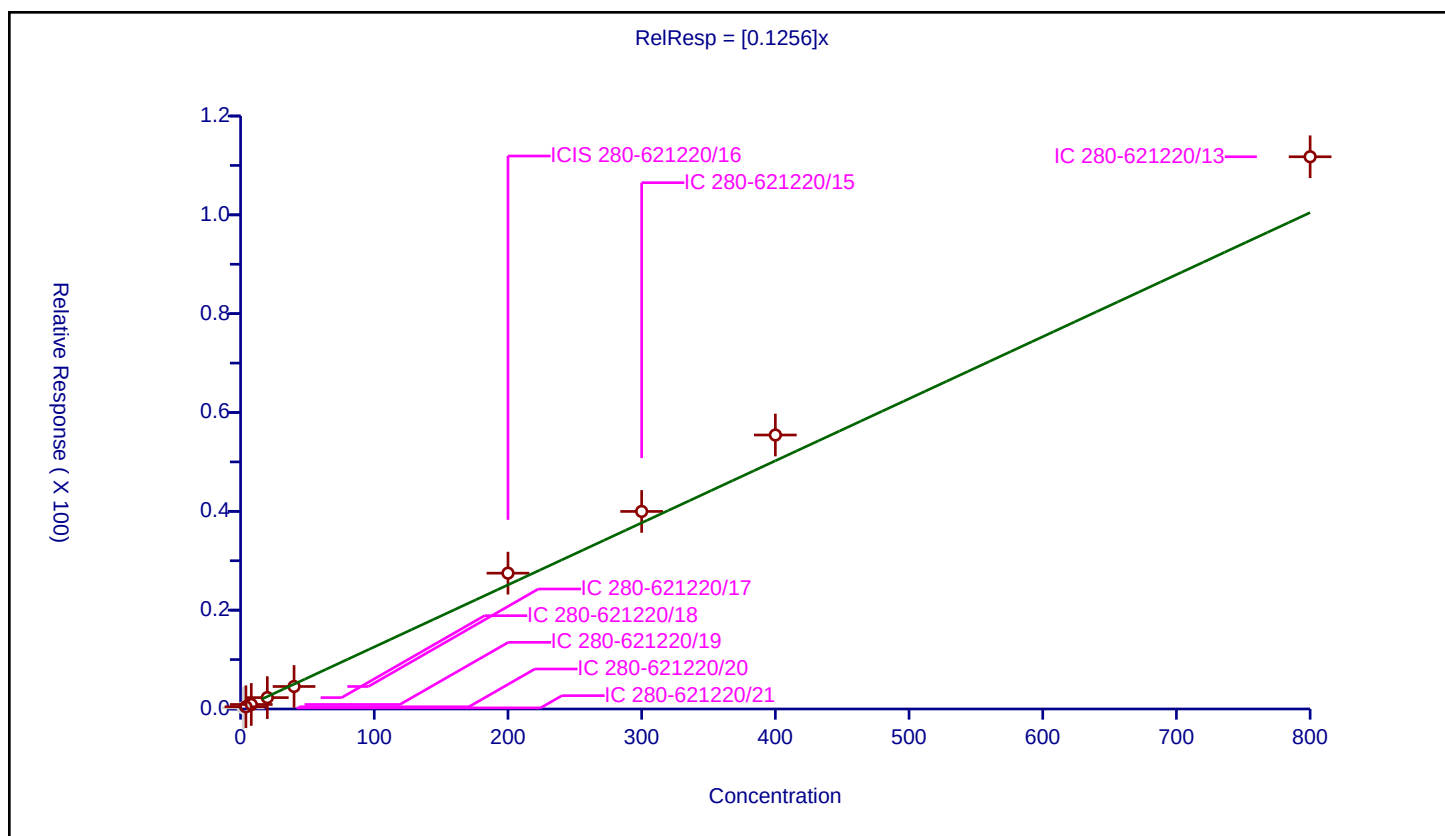
Curve Coefficients

Intercept: 0
 Slope: 0.1256

Error Coefficients

Standard Error: 2260000
 Relative Standard Error: 10.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	2.0	0.22688	50.0	2022878.0	0.11344	N
2	IC 280-621220/20	4.0	0.450195	50.0	2130300.0	0.112549	Y
3	IC 280-621220/19	8.0	0.912872	50.0	2179494.0	0.114109	Y
4	IC 280-621220/18	20.0	2.300119	50.0	2161519.0	0.115006	Y
5	IC 280-621220/17	40.0	4.553239	50.0	2216038.0	0.113831	Y
6	ICIS 280-621220/16	200.0	27.489729	50.0	2317582.0	0.137449	Y
7	IC 280-621220/15	300.0	39.981566	50.0	2262624.0	0.133272	Y
8	IC 280-621220/14	400.0	55.445241	50.0	2263977.0	0.138613	Y
9	IC 280-621220/13	800.0	111.753278	50.0	2209843.0	0.139692	Y



Calibration

/ cis-1,2-Dichloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

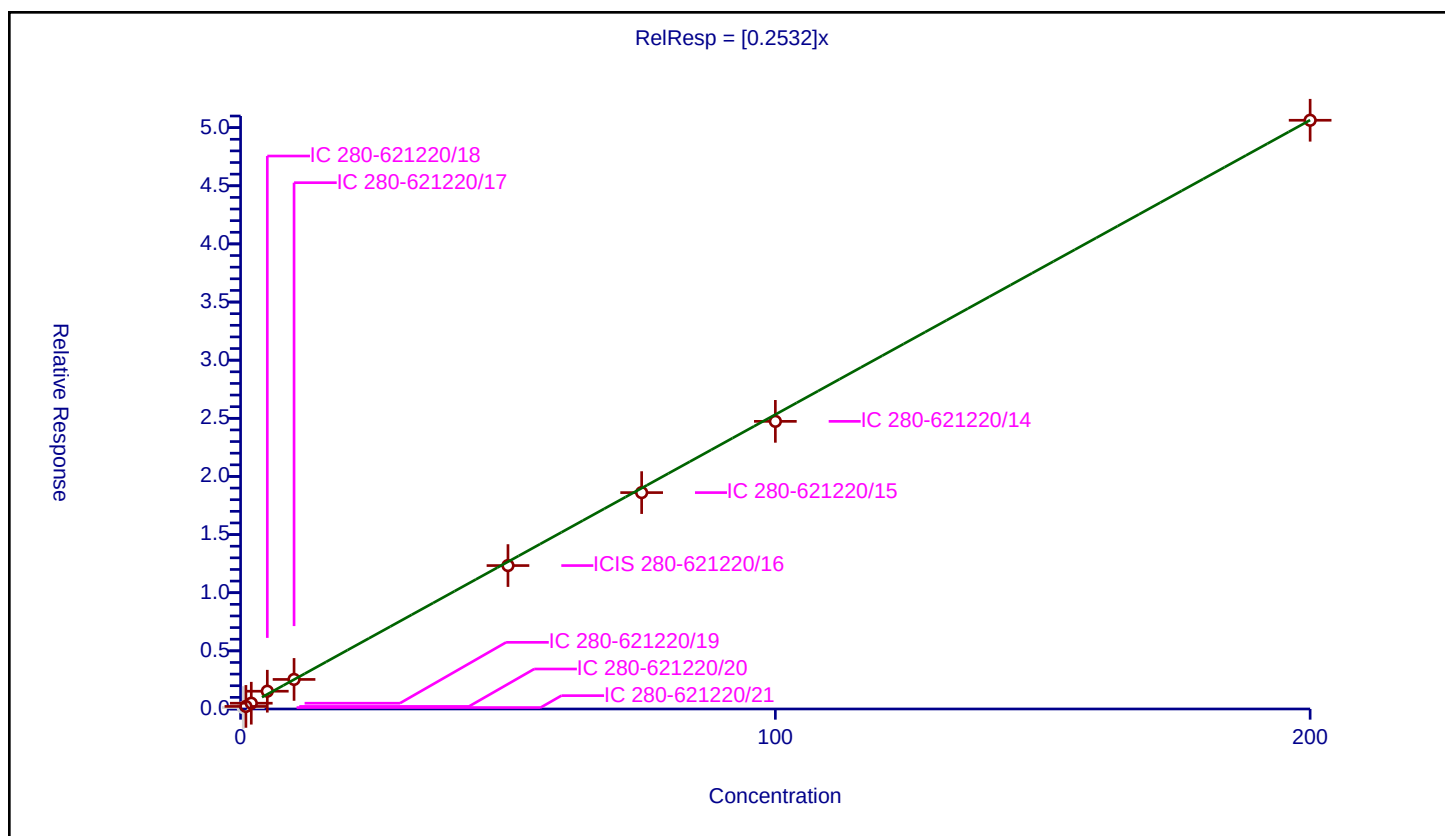
Curve Coefficients

Intercept: 0
Slope: 0.2532

Error Coefficients

Standard Error: 1020000
Relative Standard Error: 9.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.124006	50.0	2022878.0	0.248013	N
2	IC 280-621220/20	1.0	0.222222	50.0	2130300.0	0.222222	Y
3	IC 280-621220/19	2.0	0.496514	50.0	2179494.0	0.248257	Y
4	IC 280-621220/18	5.0	1.528555	50.0	2161519.0	0.305711	Y
5	IC 280-621220/17	10.0	2.542962	50.0	2216038.0	0.254296	Y
6	ICIS 280-621220/16	50.0	12.33678	50.0	2317582.0	0.246736	Y
7	IC 280-621220/15	75.0	18.611908	50.0	2262624.0	0.248159	Y
8	IC 280-621220/14	100.0	24.738105	50.0	2263977.0	0.247381	Y
9	IC 280-621220/13	200.0	50.634887	50.0	2209843.0	0.253174	Y



Calibration

/ 2,2-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

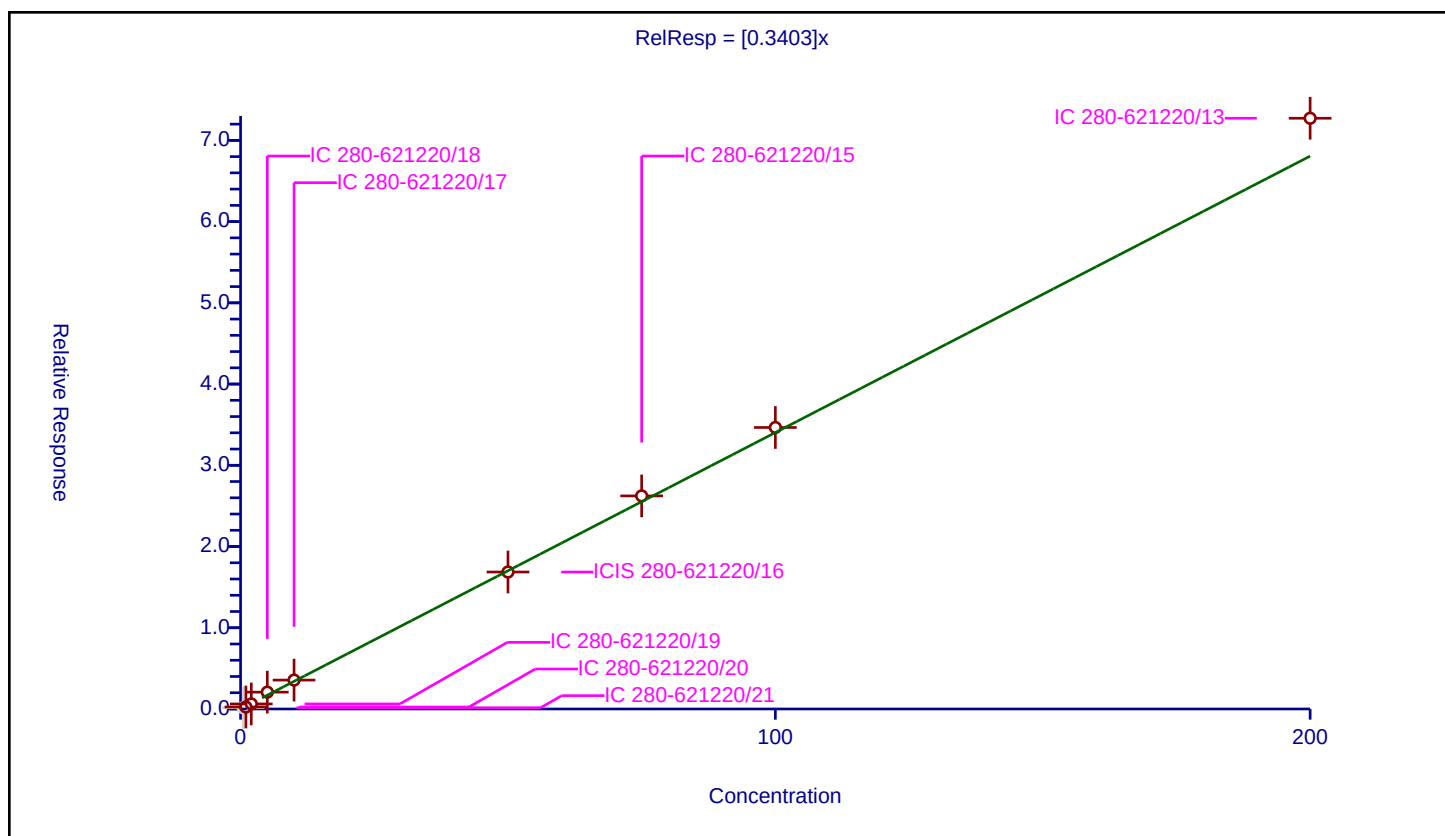
Curve Coefficients

Intercept: 0
 Slope: 0.3403

Error Coefficients

Standard Error: 1460000
 Relative Standard Error: 14.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.156683	50.0	2022878.0	0.313365	N
2	IC 280-621220/20	1.0	0.243463	50.0	2130300.0	0.243463	Y
3	IC 280-621220/19	2.0	0.623402	50.0	2179494.0	0.311701	Y
4	IC 280-621220/18	5.0	2.072131	50.0	2161519.0	0.414426	Y
5	IC 280-621220/17	10.0	3.556956	50.0	2216038.0	0.355696	Y
6	ICIS 280-621220/16	50.0	16.861669	50.0	2317582.0	0.337233	Y
7	IC 280-621220/15	75.0	26.230364	50.0	2262624.0	0.349738	Y
8	IC 280-621220/14	100.0	34.656271	50.0	2263977.0	0.346563	Y
9	IC 280-621220/13	200.0	72.724782	50.0	2209843.0	0.363624	Y



Calibration

/ sec-Butyl Alcohol

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

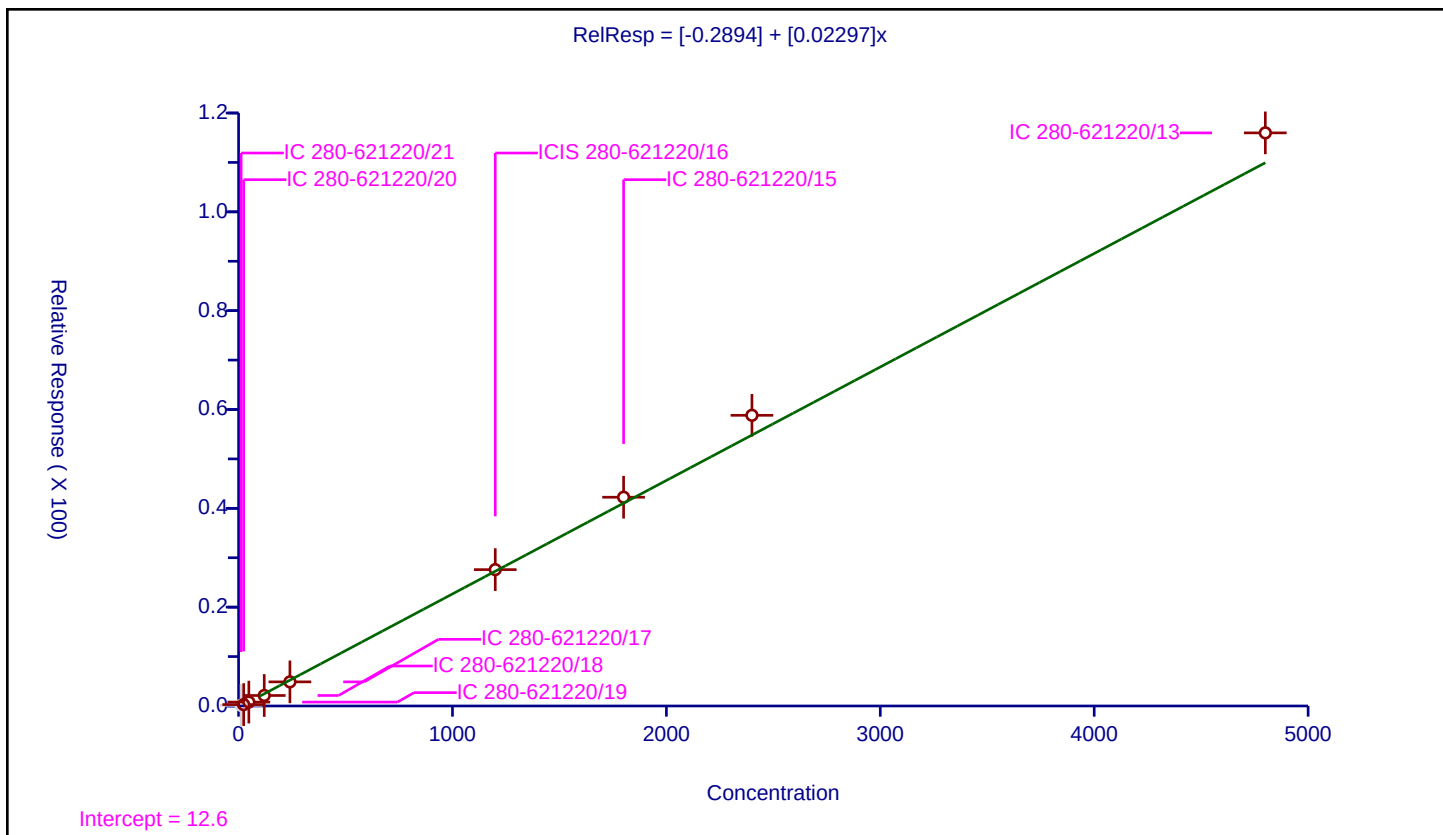
Curve Coefficients

Intercept: -0.2894
 Slope: 0.02297

Error Coefficients

Standard Error: 2540000
 Relative Standard Error: 7.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	12.0	0.13461	50.0	2022878.0	0.011218	N
2	IC 280-621220/20	24.0	0.283974	50.0	2130300.0	0.011832	Y
3	IC 280-621220/19	48.0	0.789197	50.0	2179494.0	0.016442	Y
4	IC 280-621220/18	120.0	2.122211	50.0	2161519.0	0.017685	Y
5	IC 280-621220/17	240.0	4.879677	50.0	2216038.0	0.020332	Y
6	ICIS 280-621220/16	1200.0	27.596844	50.0	2317582.0	0.022997	Y
7	IC 280-621220/15	1800.0	42.247033	50.0	2262624.0	0.023471	Y
8	IC 280-621220/14	2400.0	58.825686	50.0	2263977.0	0.024511	Y
9	IC 280-621220/13	4800.0	115.98023	50.0	2209843.0	0.024163	Y



Calibration

/ Chlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

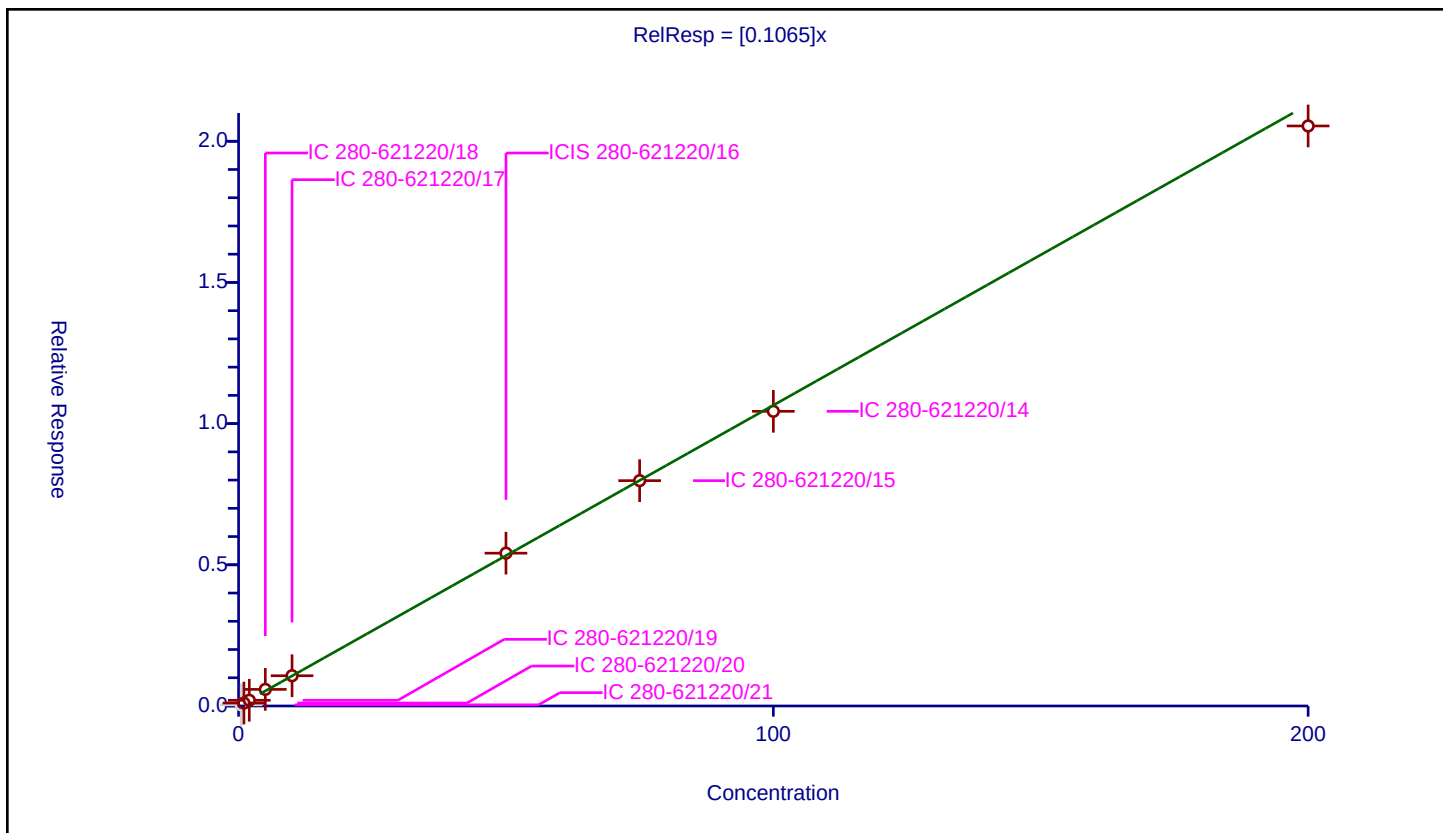
Curve Coefficients

Intercept: 0
 Slope: 0.1065

Error Coefficients

Standard Error: 422000
 Relative Standard Error: 4.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.040734	50.0	2022878.0	0.081468	N
2	IC 280-621220/20	1.0	0.104445	50.0	2130300.0	0.104445	Y
3	IC 280-621220/19	2.0	0.202593	50.0	2179494.0	0.101296	Y
4	IC 280-621220/18	5.0	0.587504	50.0	2161519.0	0.117501	Y
5	IC 280-621220/17	10.0	1.071011	50.0	2216038.0	0.107101	Y
6	ICIS 280-621220/16	50.0	5.412236	50.0	2317582.0	0.108245	Y
7	IC 280-621220/15	75.0	7.98027	50.0	2262624.0	0.106404	Y
8	IC 280-621220/14	100.0	10.435618	50.0	2263977.0	0.104356	Y
9	IC 280-621220/13	200.0	20.541256	50.0	2209843.0	0.102706	Y



Calibration

/ Tetrahydrofuran

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

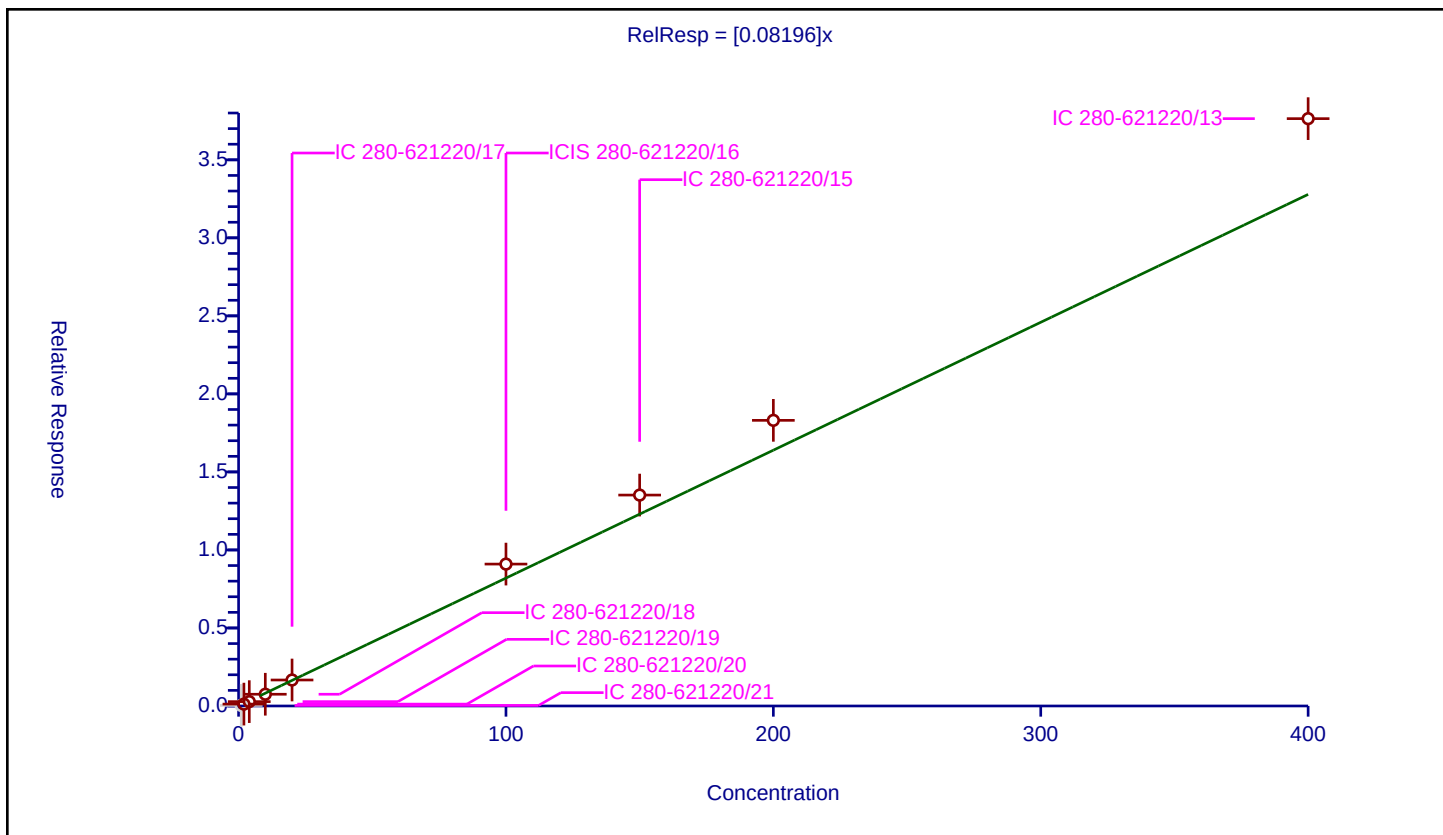
Curve Coefficients

Intercept: 0
 Slope: 0.08196

Error Coefficients

Standard Error: 757000
 Relative Standard Error: 14.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	1.0	0.037372	50.0	2022878.0	0.037372	N
2	IC 280-621220/20	2.0	0.12111	50.0	2130300.0	0.060555	Y
3	IC 280-621220/19	4.0	0.27995	50.0	2179494.0	0.069988	Y
4	IC 280-621220/18	10.0	0.752203	50.0	2161519.0	0.07522	Y
5	IC 280-621220/17	20.0	1.665247	50.0	2216038.0	0.083262	Y
6	ICIS 280-621220/16	100.0	9.0934	50.0	2317582.0	0.090934	Y
7	IC 280-621220/15	150.0	13.516519	50.0	2262624.0	0.09011	Y
8	IC 280-621220/14	200.0	18.305398	50.0	2263977.0	0.091527	Y
9	IC 280-621220/13	400.0	37.638986	50.0	2209843.0	0.094097	Y



Calibration

/ Chloroform

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

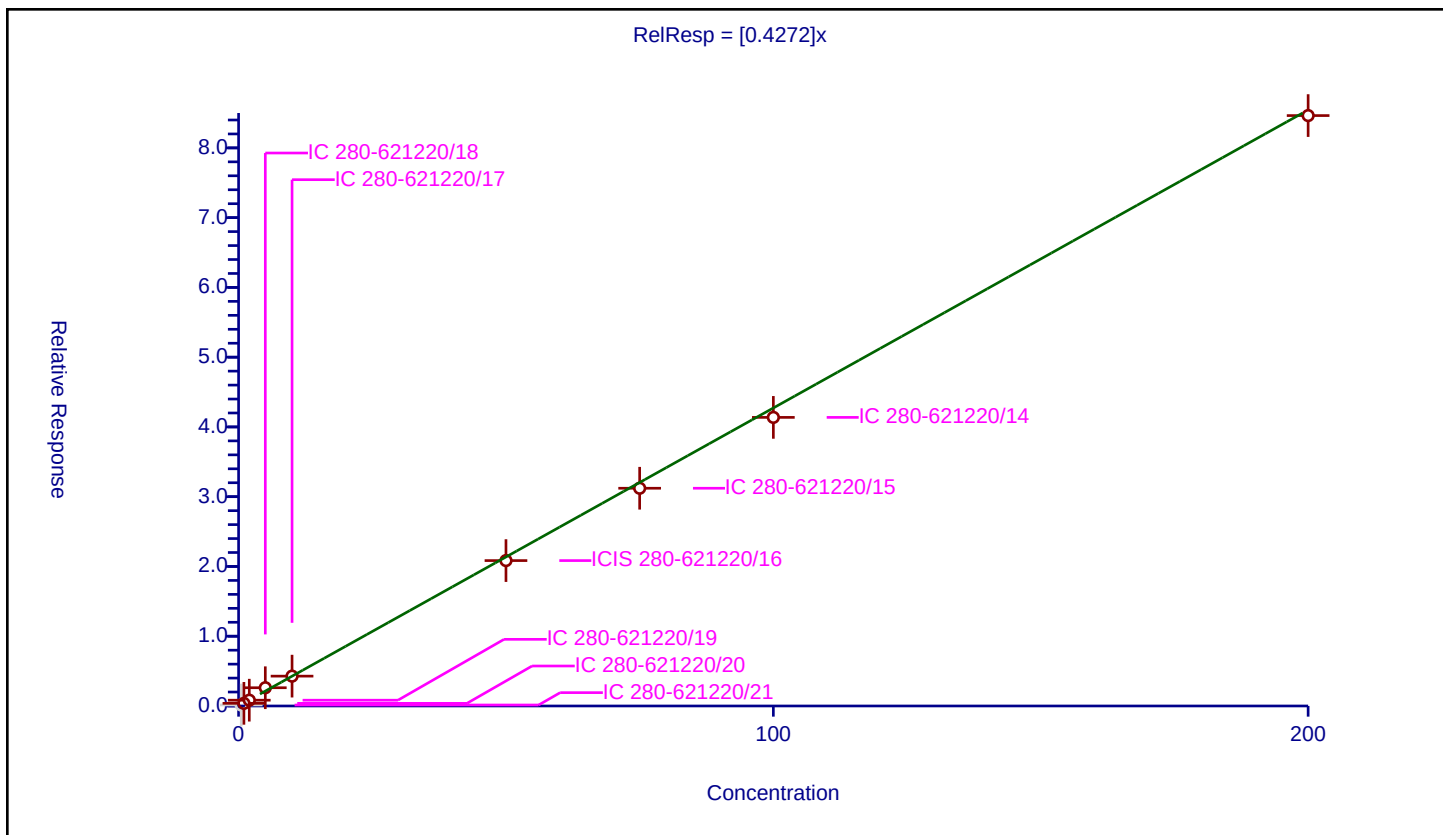
Curve Coefficients

Intercept: 0
 Slope: 0.4272

Error Coefficients

Standard Error: 1710000
 Relative Standard Error: 9.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.14294	50.0	2022878.0	0.28588	N
2	IC 280-621220/20	1.0	0.380815	50.0	2130300.0	0.380815	Y
3	IC 280-621220/19	2.0	0.831432	50.0	2179494.0	0.415716	Y
4	IC 280-621220/18	5.0	2.615036	50.0	2161519.0	0.523007	Y
5	IC 280-621220/17	10.0	4.281041	50.0	2216038.0	0.428104	Y
6	ICIS 280-621220/16	50.0	20.844311	50.0	2317582.0	0.416886	Y
7	IC 280-621220/15	75.0	31.214024	50.0	2262624.0	0.416187	Y
8	IC 280-621220/14	100.0	41.367735	50.0	2263977.0	0.413677	Y
9	IC 280-621220/13	200.0	84.632076	50.0	2209843.0	0.42316	Y



Calibration

/ Dibromofluoromethane (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

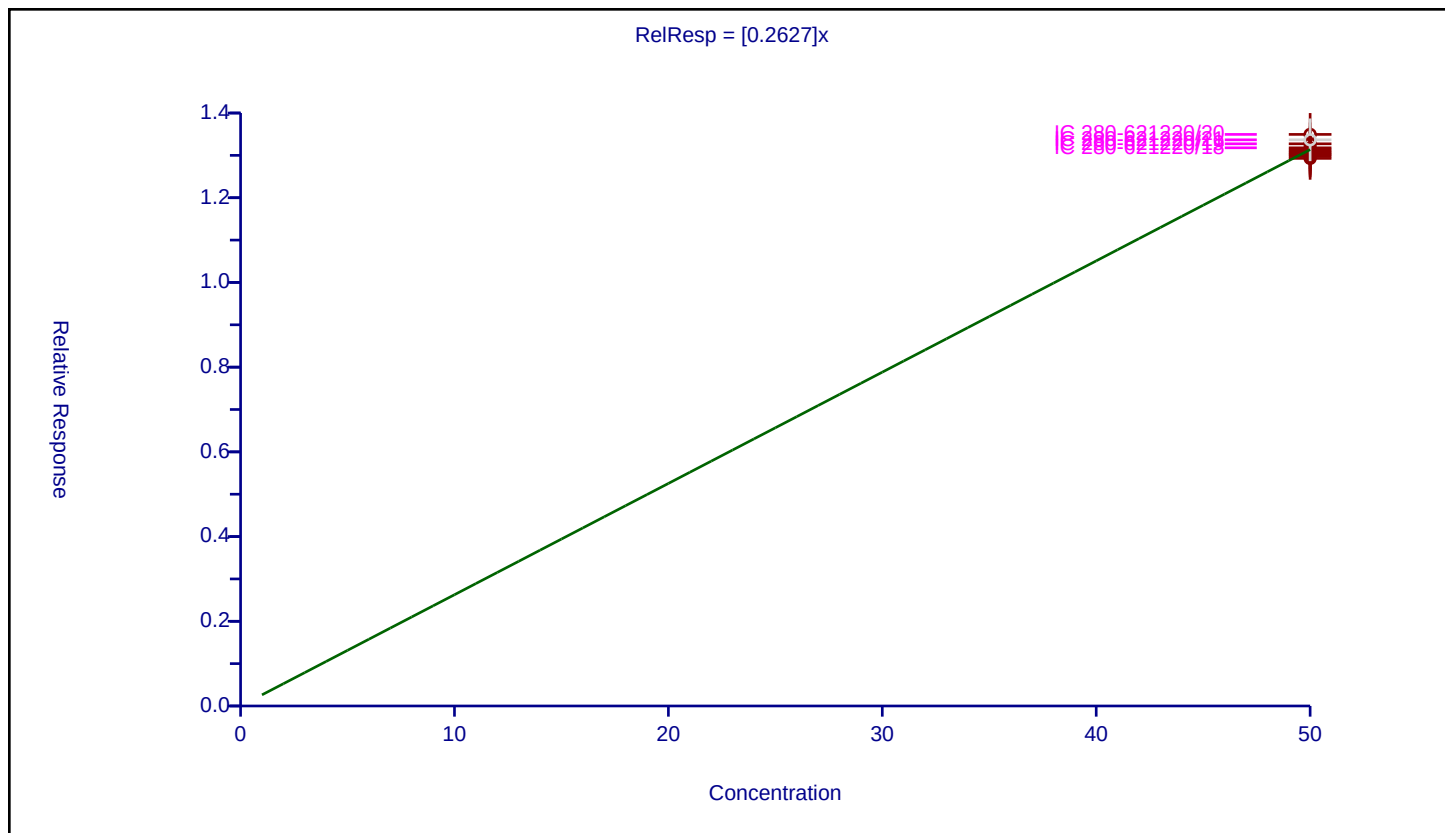
Curve Coefficients

Intercept: 0
 Slope: 0.2627

Error Coefficients

Standard Error: 623000
 Relative Standard Error: 1.4
 Correlation Coefficient: 0
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/13	50.0	12.986239	50.0	2209843.0	0.259725	Y
2	IC 280-621220/14	50.0	12.92882	50.0	2263977.0	0.258576	Y
3	IC 280-621220/15	50.0	13.074996	50.0	2262624.0	0.2615	Y
4	ICIS 280-621220/16	50.0	13.029766	50.0	2317582.0	0.260595	Y
5	IC 280-621220/17	50.0	13.125384	50.0	2216038.0	0.262508	Y
6	IC 280-621220/18	50.0	13.178348	50.0	2161519.0	0.263567	Y
7	IC 280-621220/19	50.0	13.27276	50.0	2179494.0	0.265455	Y
8	IC 280-621220/20	50.0	13.495071	50.0	2130300.0	0.269901	Y
9	IC 280-621220/21	50.0	13.367044	50.0	2022878.0	0.267341	N



Calibration

/ 1,1,1-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

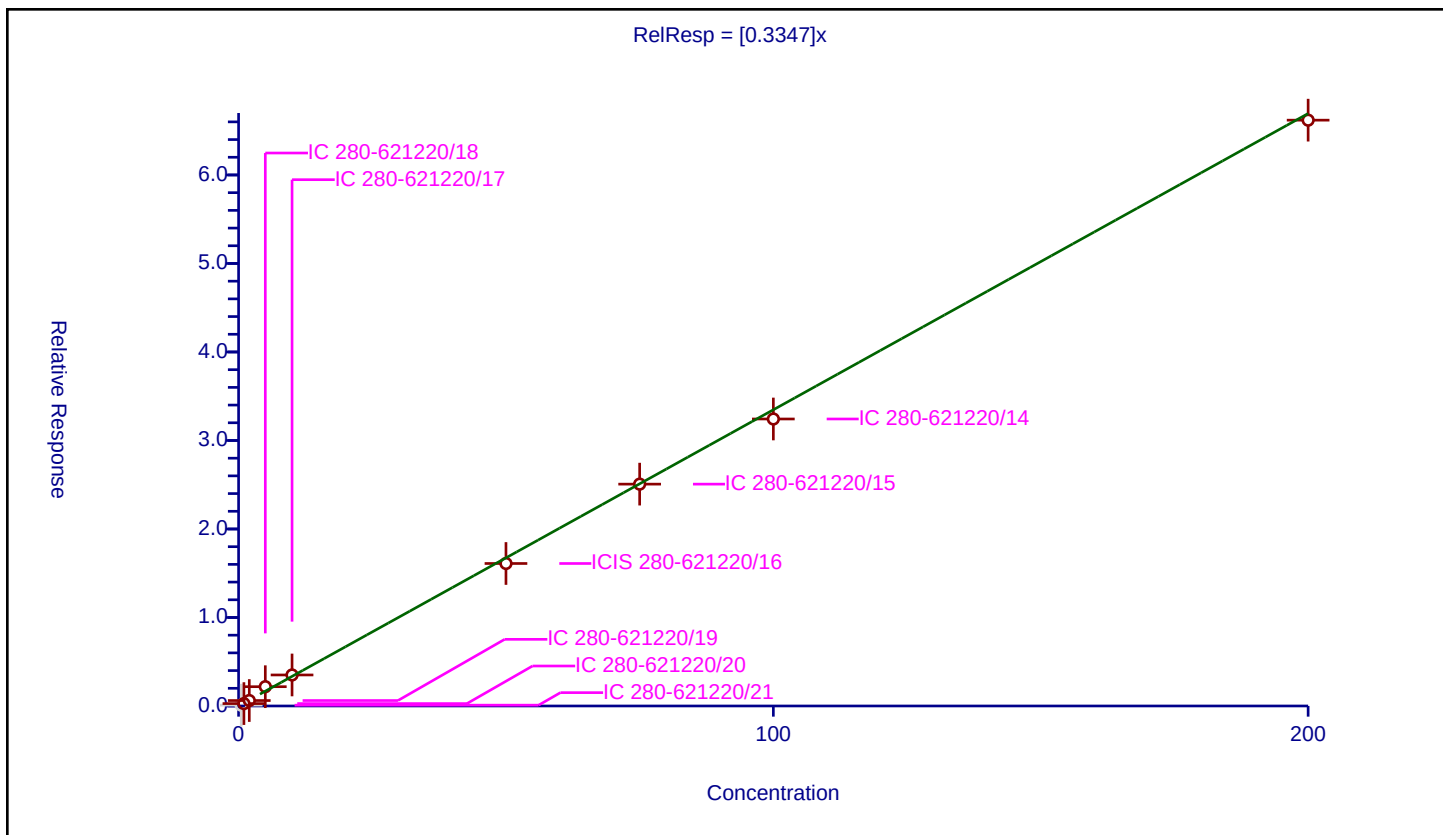
Curve Coefficients

Intercept: 0
 Slope: 0.3347

Error Coefficients

Standard Error: 1340000
 Relative Standard Error: 14.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.096397	50.0	2022878.0	0.192795	N
2	IC 280-621220/20	1.0	0.271746	50.0	2130300.0	0.271746	Y
3	IC 280-621220/19	2.0	0.615441	50.0	2179494.0	0.307721	Y
4	IC 280-621220/18	5.0	2.180781	50.0	2161519.0	0.436156	Y
5	IC 280-621220/17	10.0	3.5054	50.0	2216038.0	0.35054	Y
6	ICIS 280-621220/16	50.0	16.101135	50.0	2317582.0	0.322023	Y
7	IC 280-621220/15	75.0	25.0674	50.0	2262624.0	0.334232	Y
8	IC 280-621220/14	100.0	32.428112	50.0	2263977.0	0.324281	Y
9	IC 280-621220/13	200.0	66.193209	50.0	2209843.0	0.330966	Y



Calibration

/ Cyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

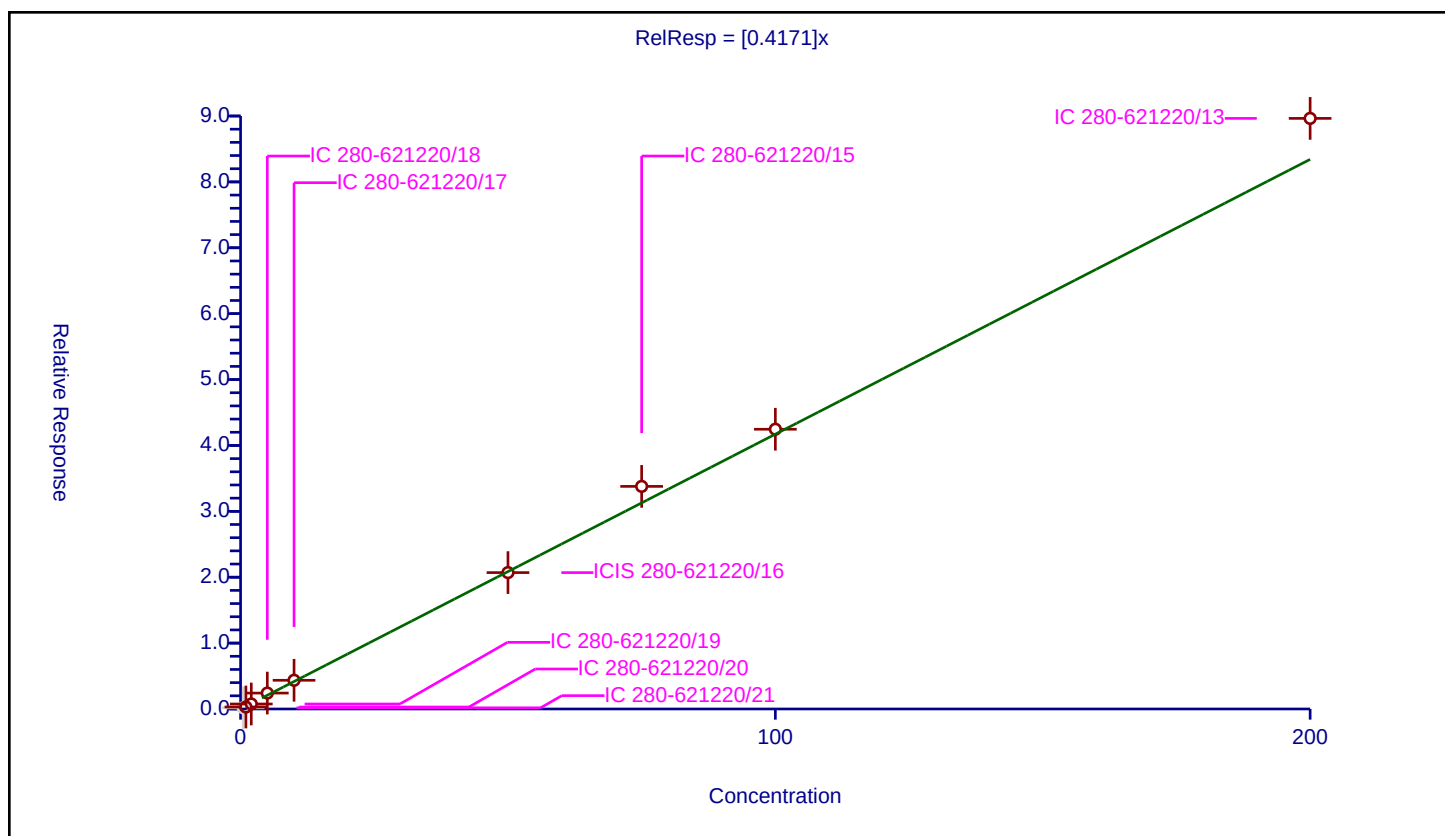
Curve Coefficients

Intercept: 0
Slope: 0.4171

Error Coefficients

Standard Error: 1800000
Relative Standard Error: 13.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.180807	50.0	2022878.0	0.361614	N
2	IC 280-621220/20	1.0	0.300169	50.0	2130300.0	0.300169	Y
3	IC 280-621220/19	2.0	0.760796	50.0	2179494.0	0.380398	Y
4	IC 280-621220/18	5.0	2.415894	50.0	2161519.0	0.483179	Y
5	IC 280-621220/17	10.0	4.357484	50.0	2216038.0	0.435748	Y
6	ICIS 280-621220/16	50.0	20.70108	50.0	2317582.0	0.414022	Y
7	IC 280-621220/15	75.0	33.786303	50.0	2262624.0	0.450484	Y
8	IC 280-621220/14	100.0	42.457587	50.0	2263977.0	0.424576	Y
9	IC 280-621220/13	200.0	89.641481	50.0	2209843.0	0.448207	Y



Calibration

/ 1,1-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

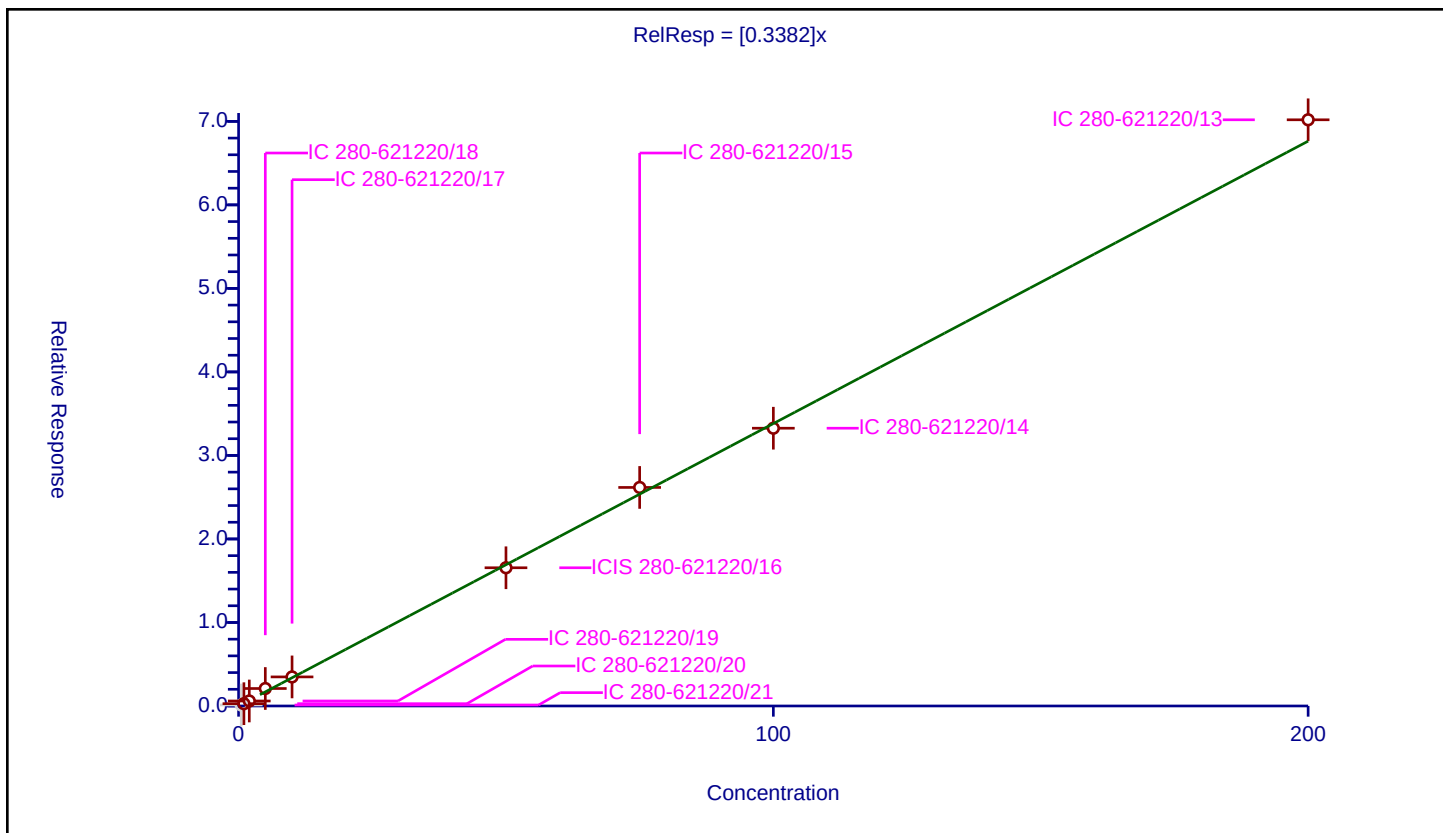
Curve Coefficients

Intercept: 0
Slope: 0.3382

Error Coefficients

Standard Error: 1410000
Relative Standard Error: 12.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.119656	50.0	2022878.0	0.239313	N
2	IC 280-621220/20	1.0	0.27536	50.0	2130300.0	0.27536	Y
3	IC 280-621220/19	2.0	0.599566	50.0	2179494.0	0.299783	Y
4	IC 280-621220/18	5.0	2.092949	50.0	2161519.0	0.41859	Y
5	IC 280-621220/17	10.0	3.480288	50.0	2216038.0	0.348029	Y
6	ICIS 280-621220/16	50.0	16.551453	50.0	2317582.0	0.331029	Y
7	IC 280-621220/15	75.0	26.16829	50.0	2262624.0	0.348911	Y
8	IC 280-621220/14	100.0	33.259525	50.0	2263977.0	0.332595	Y
9	IC 280-621220/13	200.0	70.188991	50.0	2209843.0	0.350945	Y



Calibration

/ Carbon tetrachloride

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

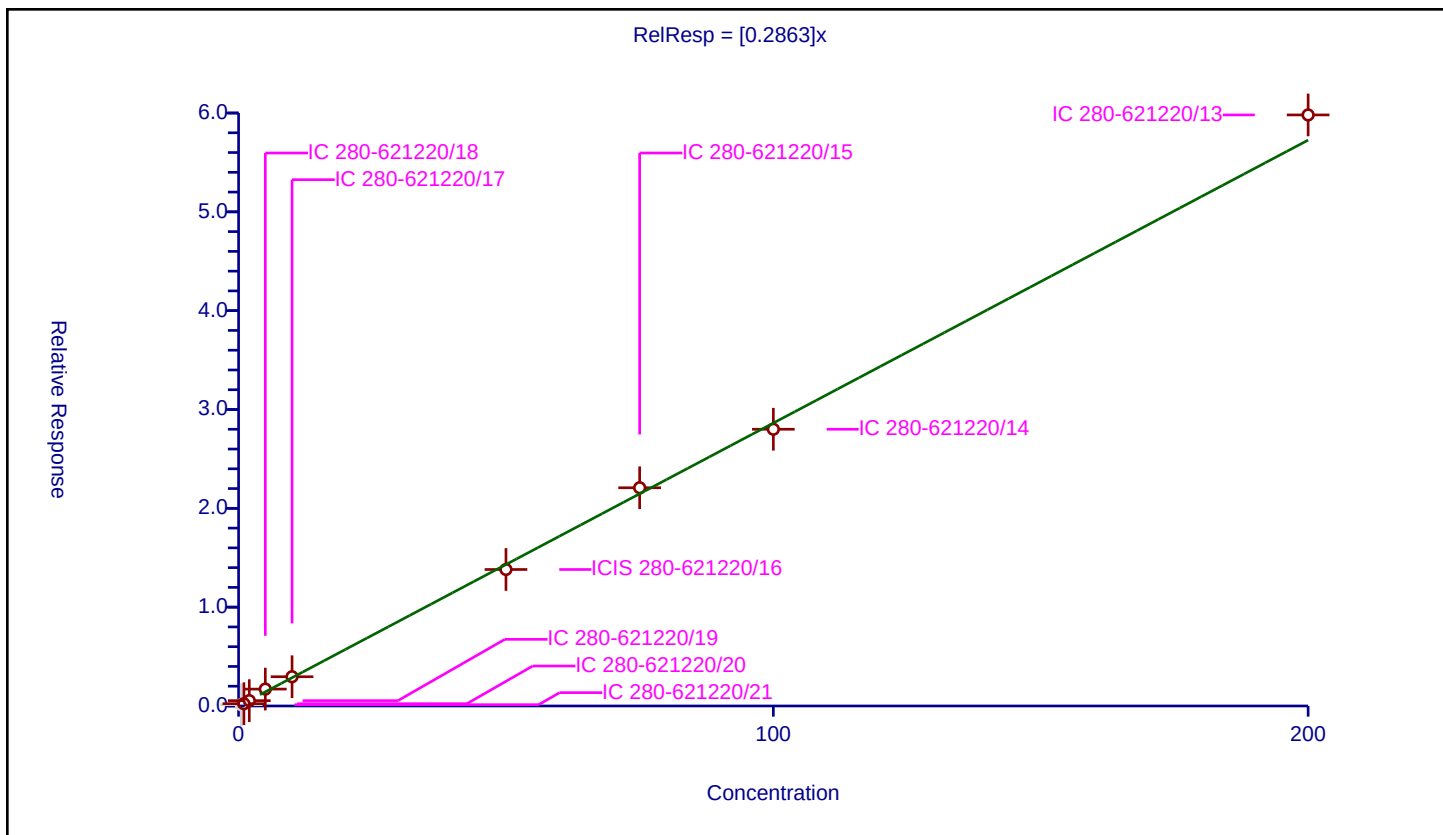
Curve Coefficients

Intercept: 0
Slope: 0.2863

Error Coefficients

Standard Error: 1200000
Relative Standard Error: 10.8
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.134808	50.0	2022878.0	0.269616	N
2	IC 280-621220/20	1.0	0.232244	50.0	2130300.0	0.232244	Y
3	IC 280-621220/19	2.0	0.541112	50.0	2179494.0	0.270556	Y
4	IC 280-621220/18	5.0	1.708891	50.0	2161519.0	0.341778	Y
5	IC 280-621220/17	10.0	2.960531	50.0	2216038.0	0.296053	Y
6	ICIS 280-621220/16	50.0	13.811162	50.0	2317582.0	0.276223	Y
7	IC 280-621220/15	75.0	22.079961	50.0	2262624.0	0.294399	Y
8	IC 280-621220/14	100.0	28.00077	50.0	2263977.0	0.280008	Y
9	IC 280-621220/13	200.0	59.806896	50.0	2209843.0	0.299034	Y



Calibration

/ Isobutyl alcohol

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

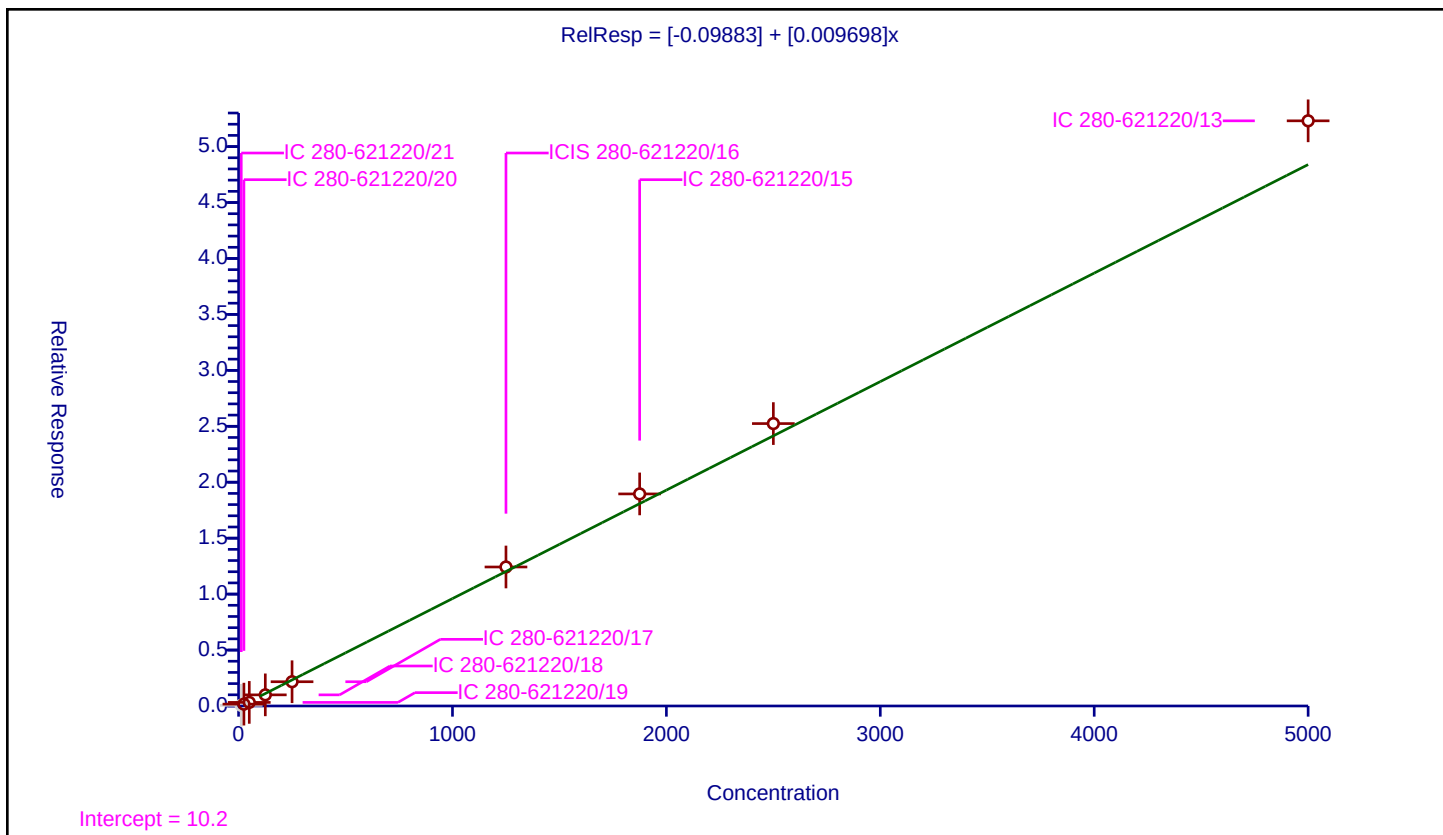
Curve Coefficients

Intercept: -0.09883
 Slope: 0.009698

Error Coefficients

Standard Error: 1130000
 Relative Standard Error: 9.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	12.5	0.058234	50.0	2022878.0	0.004659	N
2	IC 280-621220/20	25.0	0.165845	50.0	2130300.0	0.006634	Y
3	IC 280-621220/19	50.0	0.32035	50.0	2179494.0	0.006407	Y
4	IC 280-621220/18	125.0	0.994416	50.0	2161519.0	0.007955	Y
5	IC 280-621220/17	250.0	2.167697	50.0	2216038.0	0.008671	Y
6	ICIS 280-621220/16	1250.0	12.424803	50.0	2317582.0	0.00994	Y
7	IC 280-621220/15	1875.0	18.955536	50.0	2262624.0	0.01011	Y
8	IC 280-621220/14	2500.0	25.242438	50.0	2263977.0	0.010097	Y
9	IC 280-621220/13	5000.0	52.30272	50.0	2209843.0	0.010461	Y



Calibration

/ 1,2-Dichloroethane-d4 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

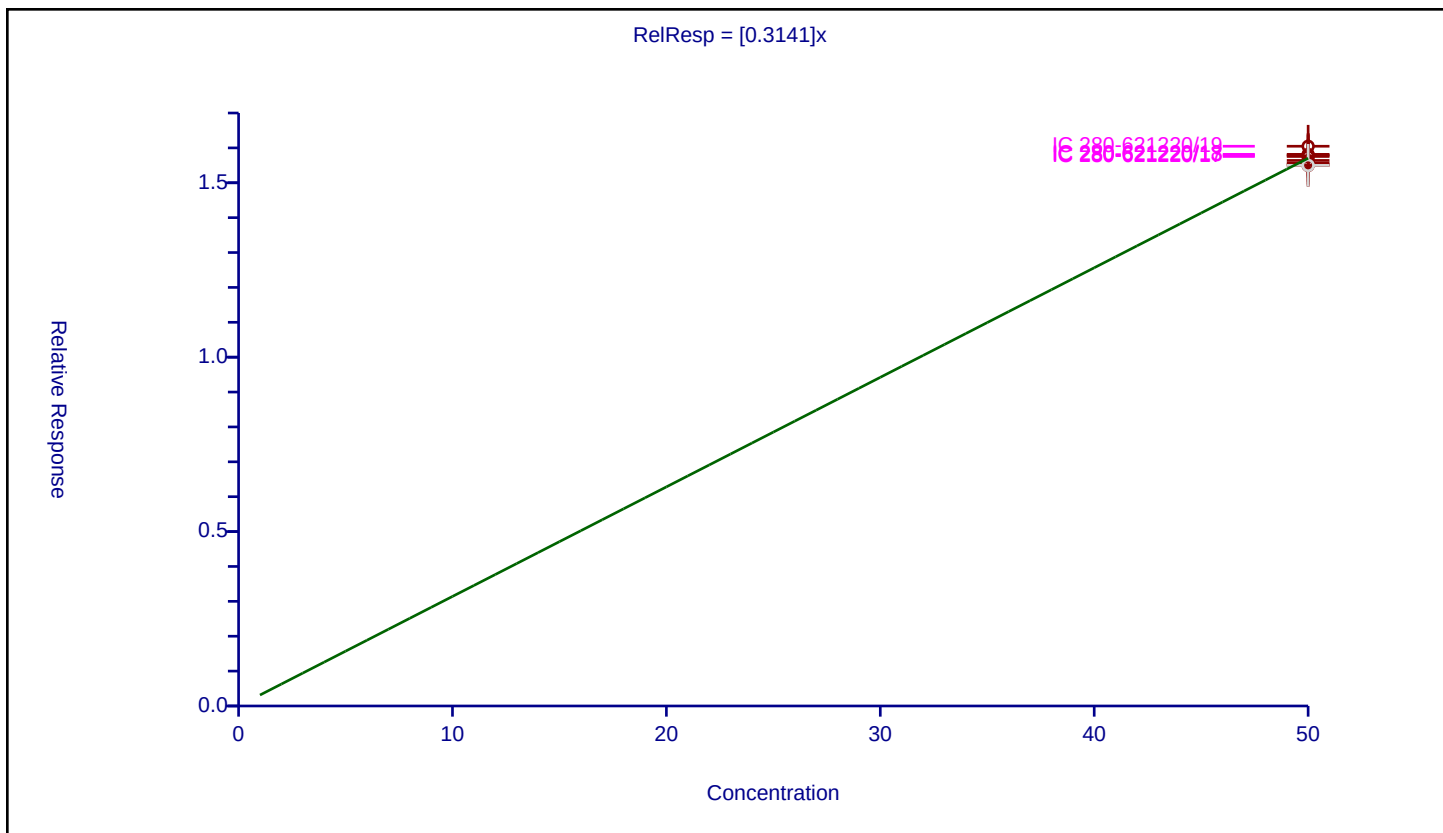
Curve Coefficients

Intercept: 0
 Slope: 0.3141

Error Coefficients

Standard Error: 745000
 Relative Standard Error: 1.2
 Correlation Coefficient: NA
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/13	50.0	15.787411	50.0	2209843.0	0.315748	Y
2	IC 280-621220/14	50.0	15.565286	50.0	2263977.0	0.311306	Y
3	IC 280-621220/15	50.0	15.640557	50.0	2262624.0	0.312811	Y
4	ICIS 280-621220/16	50.0	15.52355	50.0	2317582.0	0.310471	Y
5	IC 280-621220/17	50.0	15.753746	50.0	2216038.0	0.315075	Y
6	IC 280-621220/18	50.0	15.814712	50.0	2161519.0	0.316294	Y
7	IC 280-621220/19	50.0	16.04744	50.0	2179494.0	0.320949	Y
8	IC 280-621220/20	50.0	15.494508	50.0	2130300.0	0.30989	Y
9	IC 280-621220/21	50.0	15.499303	50.0	2022878.0	0.309986	N



Calibration

/ Benzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

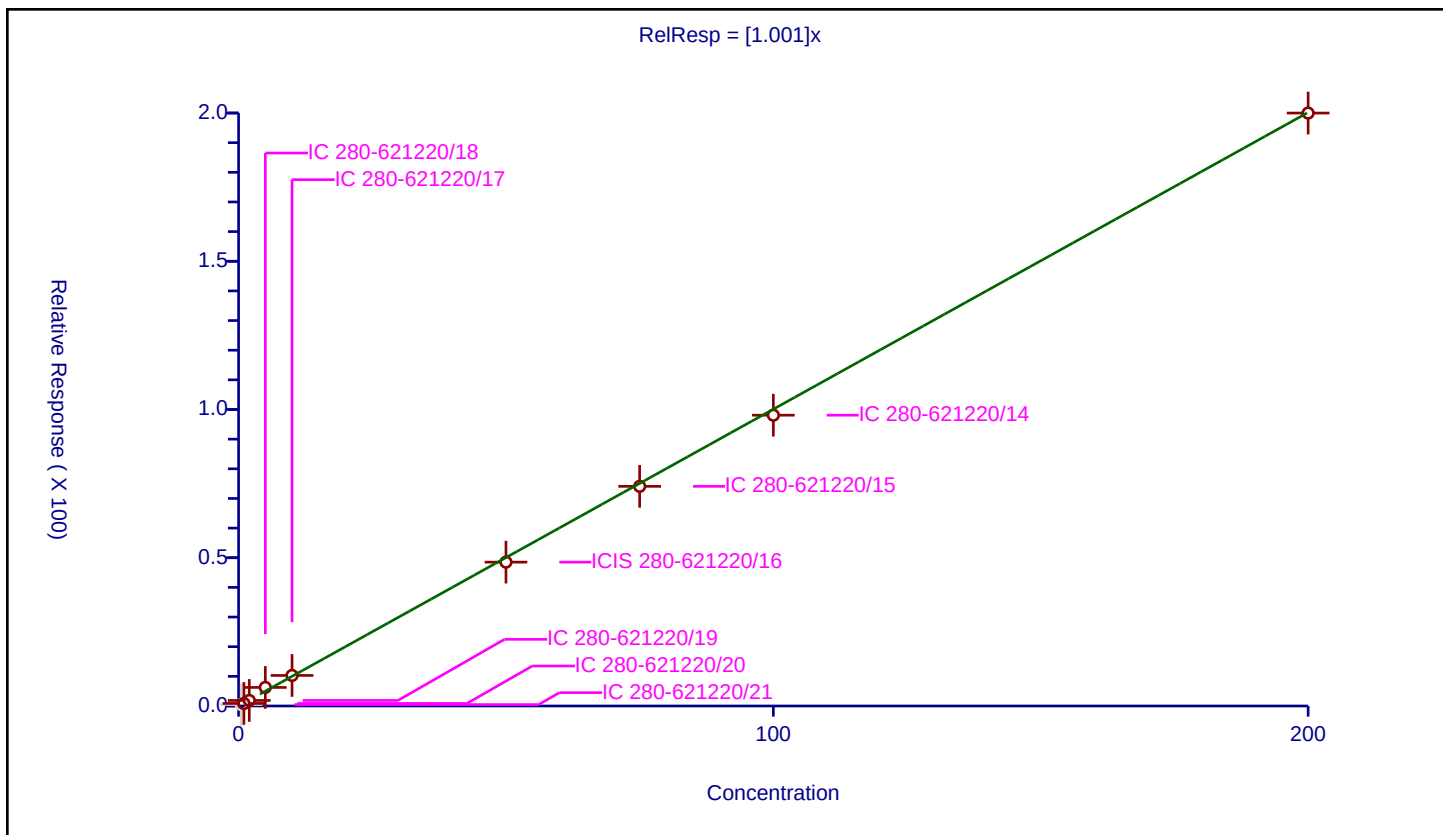
Curve Coefficients

Intercept: 0
 Slope: 1.001

Error Coefficients

Standard Error: 4040000
 Relative Standard Error: 11.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.478155	50.0	2022878.0	0.956311	N
2	IC 280-621220/20	1.0	0.854621	50.0	2130300.0	0.854621	Y
3	IC 280-621220/19	2.0	1.865777	50.0	2179494.0	0.932889	Y
4	IC 280-621220/18	5.0	6.257613	50.0	2161519.0	1.251523	Y
5	IC 280-621220/17	10.0	10.301516	50.0	2216038.0	1.030152	Y
6	ICIS 280-621220/16	50.0	48.523116	50.0	2317582.0	0.970462	Y
7	IC 280-621220/15	75.0	74.084315	50.0	2262624.0	0.987791	Y
8	IC 280-621220/14	100.0	98.077697	50.0	2263977.0	0.980777	Y
9	IC 280-621220/13	200.0	199.979682	50.0	2209843.0	0.999898	Y



Calibration

/ 1,2-Dichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

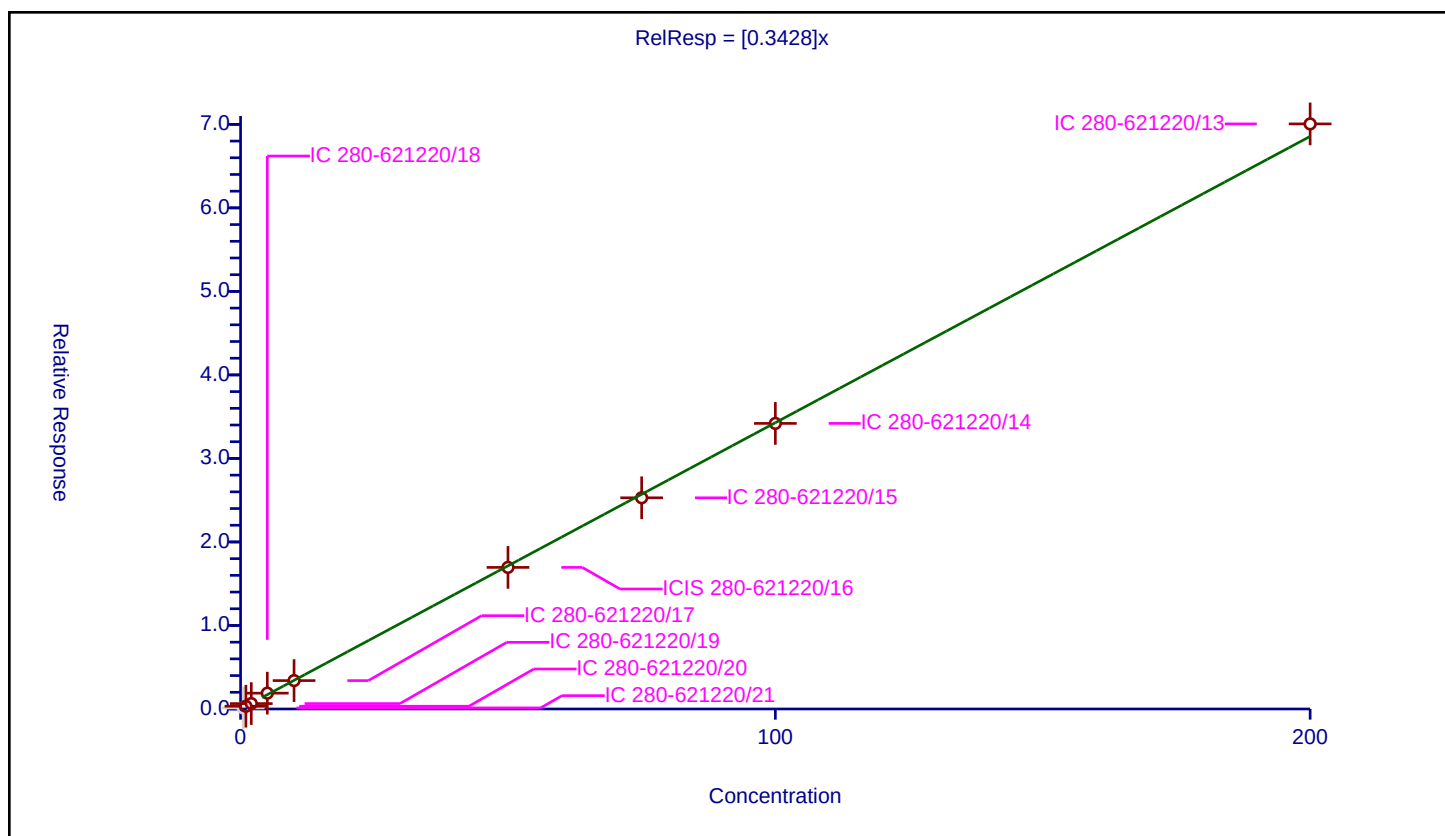
Curve Coefficients

Intercept: 0
 Slope: 0.3428

Error Coefficients

Standard Error: 1410000
 Relative Standard Error: 4.8
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.127764	50.0	2022878.0	0.255527	N
2	IC 280-621220/20	1.0	0.331831	50.0	2130300.0	0.331831	Y
3	IC 280-621220/19	2.0	0.646985	50.0	2179494.0	0.323493	Y
4	IC 280-621220/18	5.0	1.894223	50.0	2161519.0	0.378845	Y
5	IC 280-621220/17	10.0	3.398046	50.0	2216038.0	0.339805	Y
6	ICIS 280-621220/16	50.0	16.95323	50.0	2317582.0	0.339065	Y
7	IC 280-621220/15	75.0	25.287343	50.0	2262624.0	0.337165	Y
8	IC 280-621220/14	100.0	34.193435	50.0	2263977.0	0.341934	Y
9	IC 280-621220/13	200.0	70.054343	50.0	2209843.0	0.350272	Y



Calibration

/ n-Heptane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

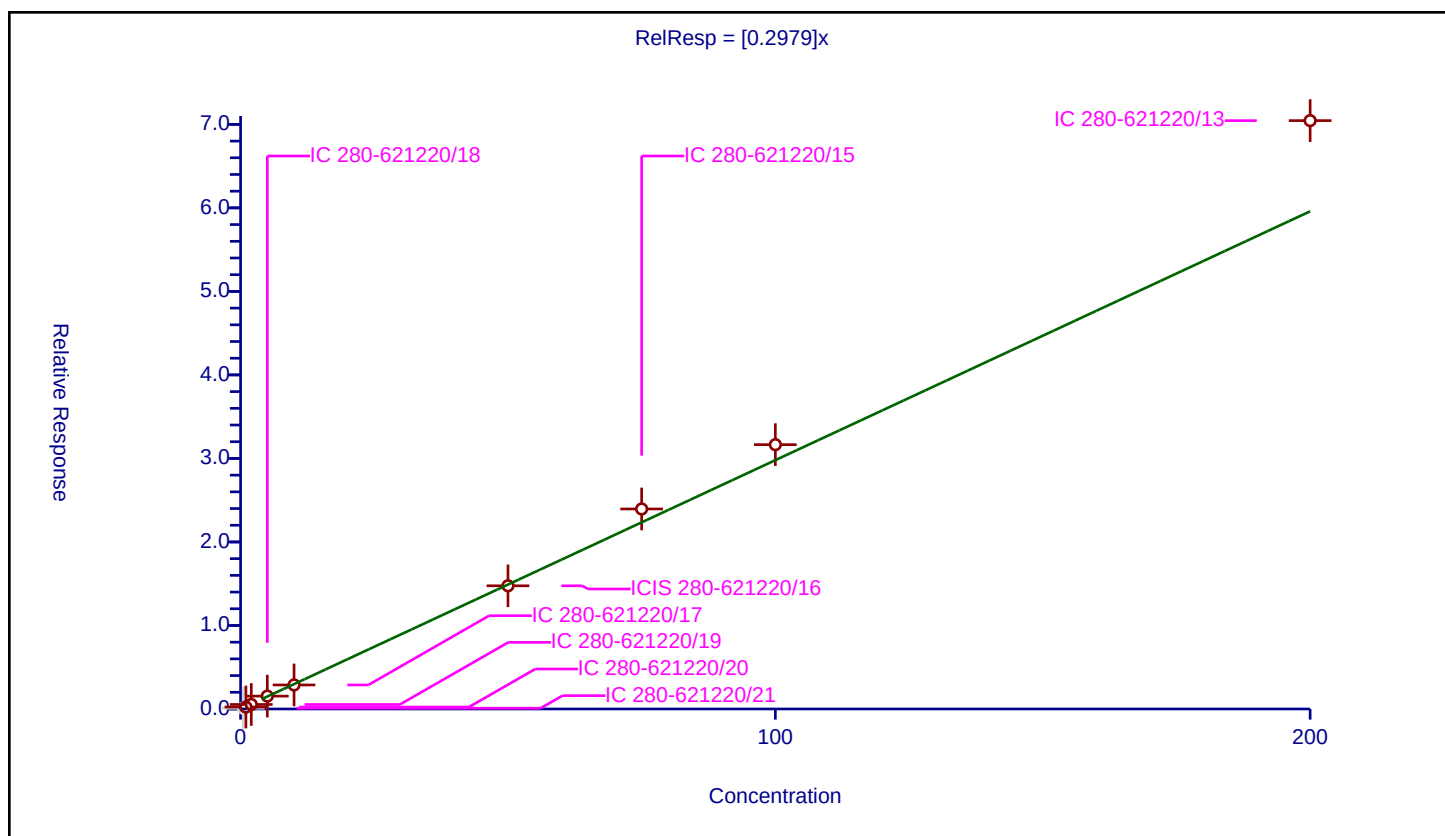
Curve Coefficients

Intercept: 0
 Slope: 0.2979

Error Coefficients

Standard Error: 1380000
 Relative Standard Error: 11.9
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.095433	50.0	2022878.0	0.190867	N
2	IC 280-621220/20	1.0	0.233441	50.0	2130300.0	0.233441	Y
3	IC 280-621220/19	2.0	0.541846	50.0	2179494.0	0.270923	Y
4	IC 280-621220/18	5.0	1.540097	50.0	2161519.0	0.308019	Y
5	IC 280-621220/17	10.0	2.879599	50.0	2216038.0	0.28796	Y
6	ICIS 280-621220/16	50.0	14.750503	50.0	2317582.0	0.29501	Y
7	IC 280-621220/15	75.0	23.948875	50.0	2262624.0	0.319318	Y
8	IC 280-621220/14	100.0	31.649659	50.0	2263977.0	0.316497	Y
9	IC 280-621220/13	200.0	70.448964	50.0	2209843.0	0.352245	Y



Calibration

/ Trichloroethene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

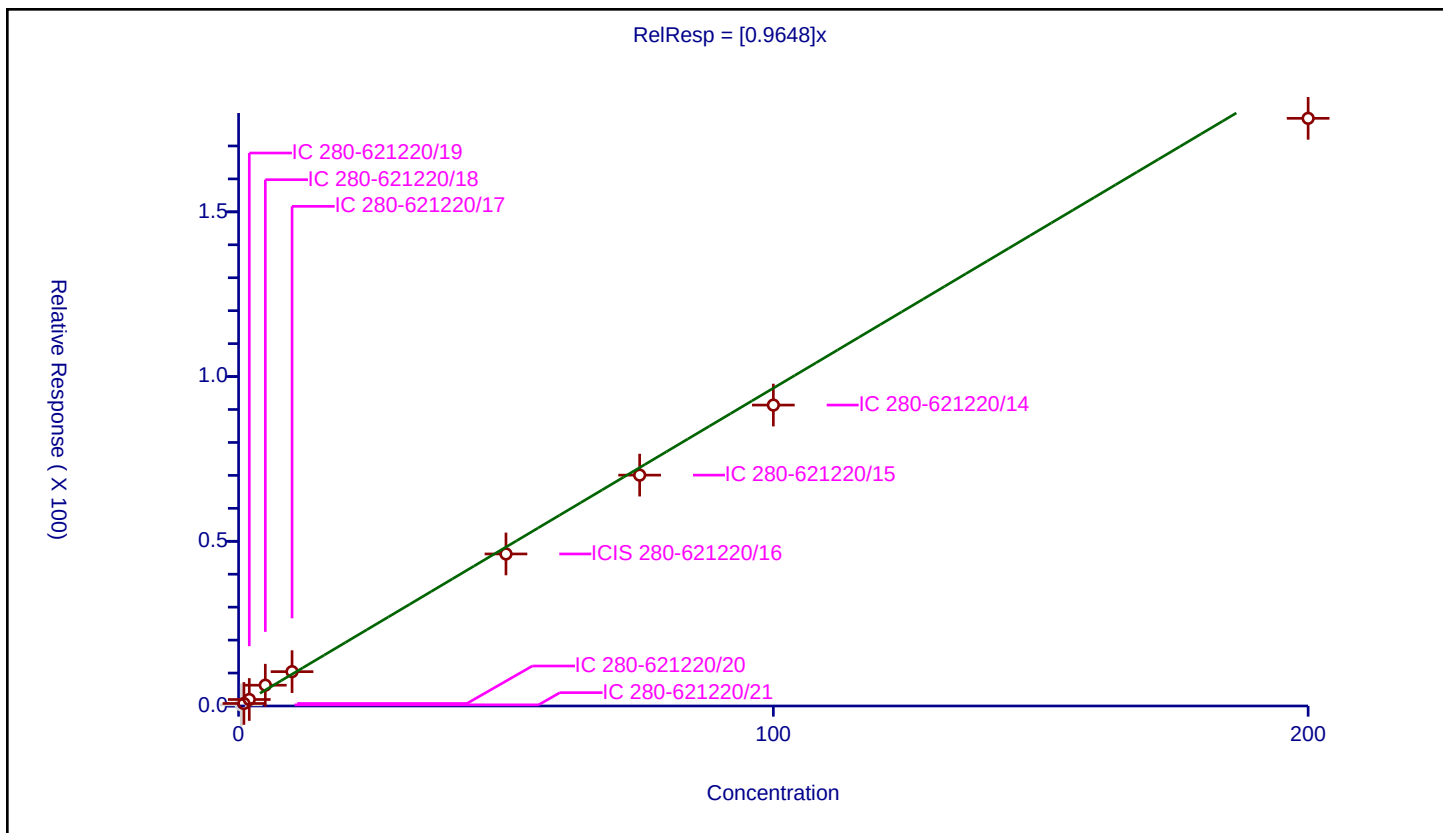
Curve Coefficients

Intercept: 0
 Slope: 0.9648

Error Coefficients

Standard Error: 943000
 Relative Standard Error: 14.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.974

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.350203	50.0	492571.0	0.700407	N
2	IC 280-621220/20	1.0	0.765826	50.0	515326.0	0.765826	Y
3	IC 280-621220/19	2.0	1.97273	50.0	532739.0	0.986365	Y
4	IC 280-621220/18	5.0	6.306788	50.0	530920.0	1.261358	Y
5	IC 280-621220/17	10.0	10.418705	50.0	540571.0	1.041871	Y
6	ICIS 280-621220/16	50.0	46.149376	50.0	571323.0	0.922988	Y
7	IC 280-621220/15	75.0	70.081724	50.0	573514.0	0.934423	Y
8	IC 280-621220/14	100.0	91.342254	50.0	570801.0	0.913423	Y
9	IC 280-621220/13	200.0	178.389415	50.0	574369.0	0.891947	Y



Calibration

/ 2-Pentanone

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

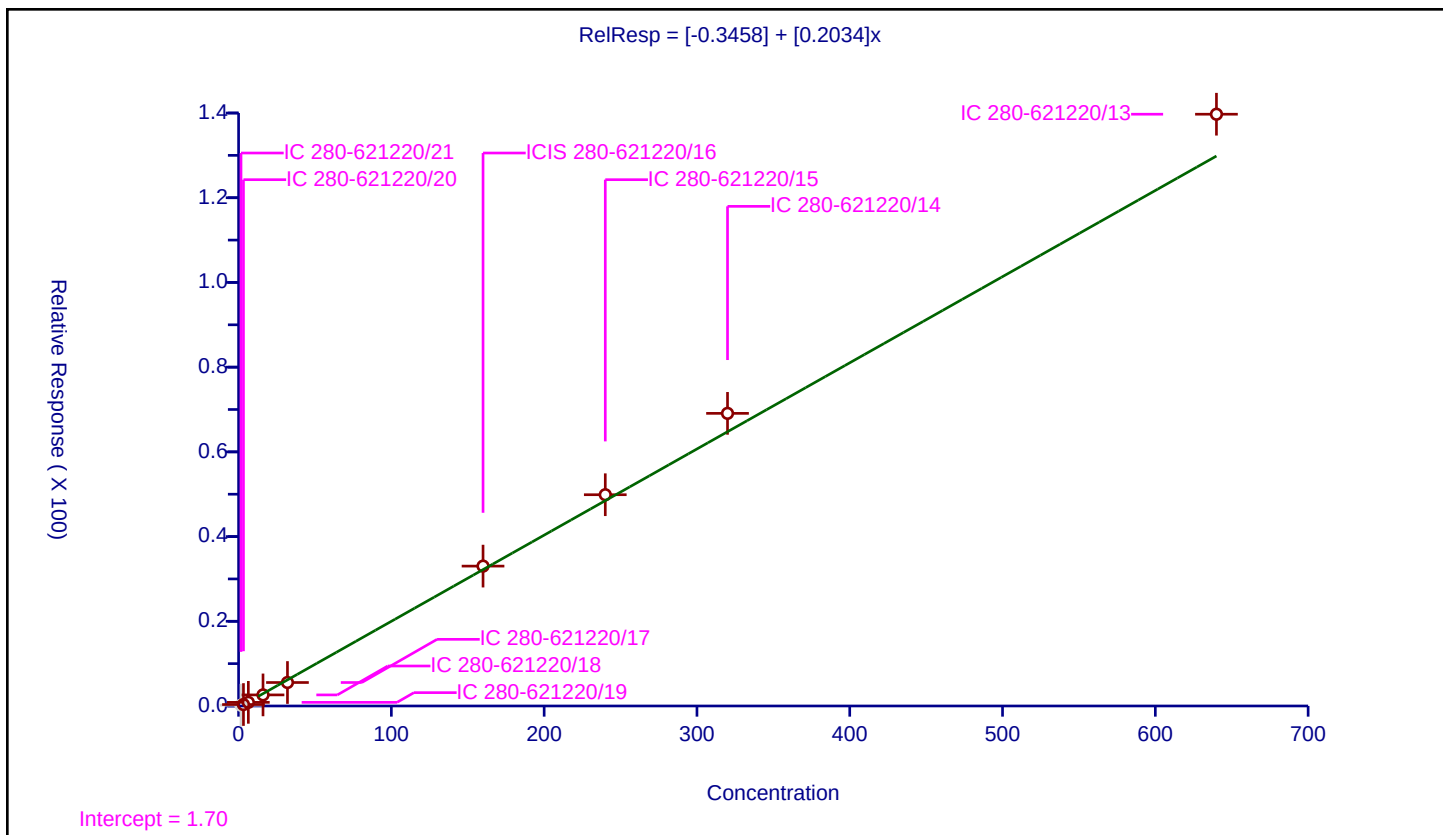
Curve Coefficients

Intercept: -0.3458
 Slope: 0.2034

Error Coefficients

Standard Error: 3040000
 Relative Standard Error: 8.0
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	1.6	0.191188	50.0	2022878.0	0.119493	N
2	IC 280-621220/20	3.2	0.346172	50.0	2130300.0	0.108179	Y
3	IC 280-621220/19	6.4	0.858043	50.0	2179494.0	0.134069	Y
4	IC 280-621220/18	16.0	2.618922	50.0	2161519.0	0.163683	Y
5	IC 280-621220/17	32.0	5.545144	50.0	2216038.0	0.173286	Y
6	ICIS 280-621220/16	160.0	33.022693	50.0	2317582.0	0.206392	Y
7	IC 280-621220/15	240.0	49.877443	50.0	2262624.0	0.207823	Y
8	IC 280-621220/14	320.0	69.085552	50.0	2263977.0	0.215892	Y
9	IC 280-621220/13	640.0	139.713998	50.0	2209843.0	0.218303	Y



Calibration

/ Methylcyclohexane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

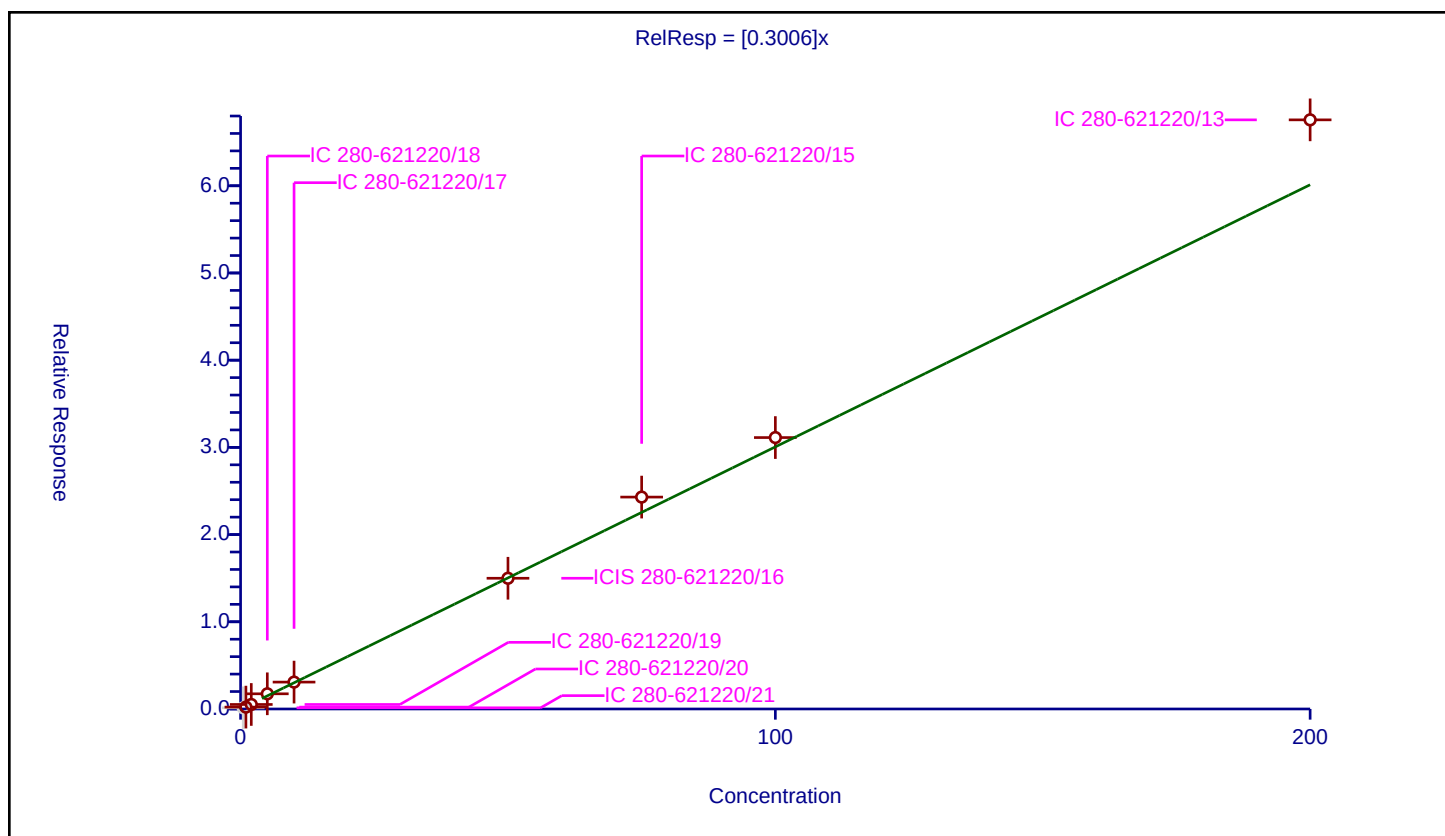
Curve Coefficients

Intercept: 0
Slope: 0.3006

Error Coefficients

Standard Error: 1340000
Relative Standard Error: 14.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.135871	50.0	2022878.0	0.271742	N
2	IC 280-621220/20	1.0	0.216495	50.0	2130300.0	0.216495	Y
3	IC 280-621220/19	2.0	0.517666	50.0	2179494.0	0.258833	Y
4	IC 280-621220/18	5.0	1.740743	50.0	2161519.0	0.348149	Y
5	IC 280-621220/17	10.0	3.083002	50.0	2216038.0	0.3083	Y
6	ICIS 280-621220/16	50.0	14.99071	50.0	2317582.0	0.299814	Y
7	IC 280-621220/15	75.0	24.300105	50.0	2262624.0	0.324001	Y
8	IC 280-621220/14	100.0	31.127525	50.0	2263977.0	0.311275	Y
9	IC 280-621220/13	200.0	67.55989	50.0	2209843.0	0.337799	Y



Calibration

/ 1,2-Dichloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

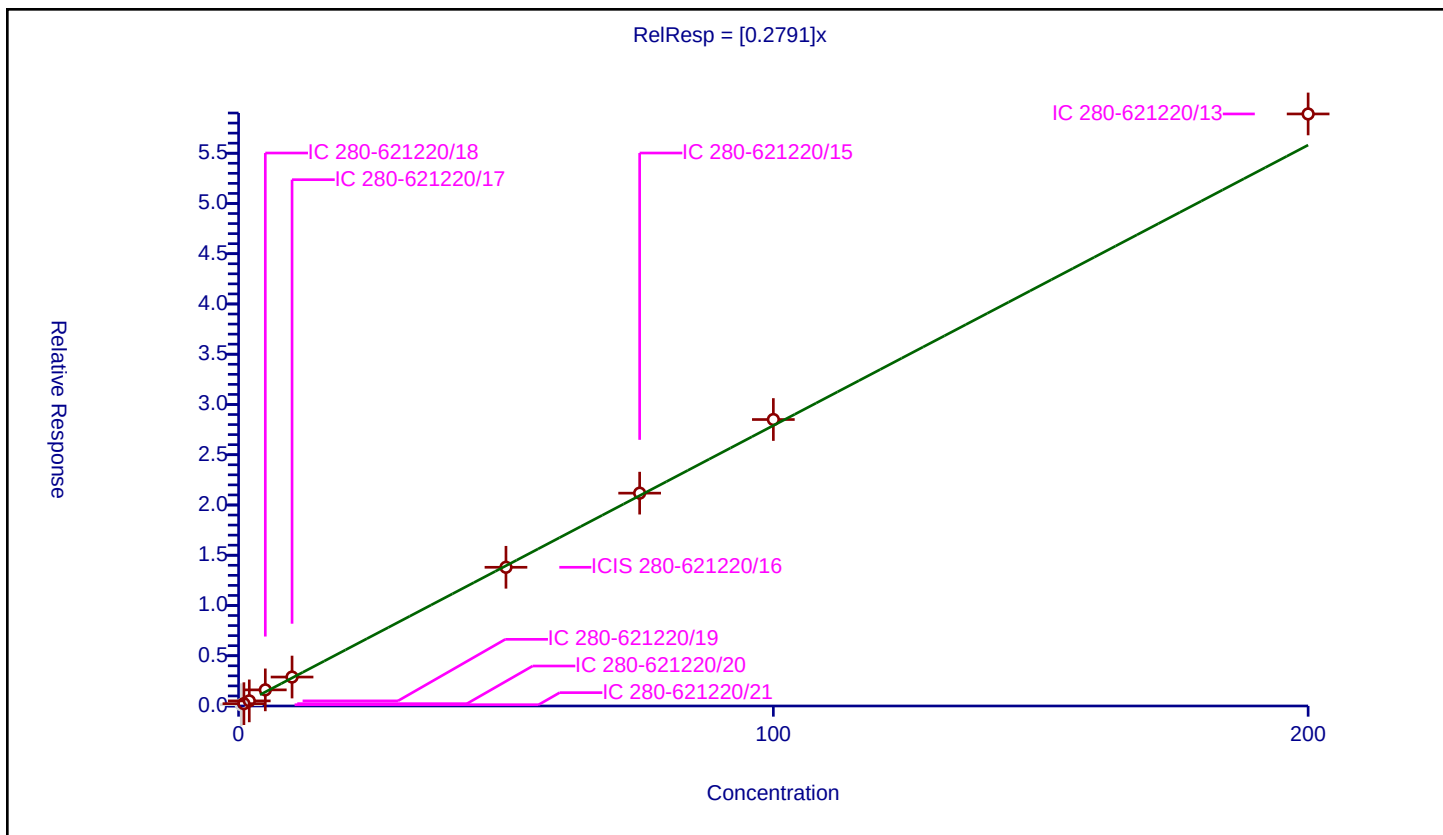
Curve Coefficients

Intercept: 0
Slope: 0.2791

Error Coefficients

Standard Error: 1180000
Relative Standard Error: 9.6
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.127467	50.0	2022878.0	0.254934	N
2	IC 280-621220/20	1.0	0.231845	50.0	2130300.0	0.231845	Y
3	IC 280-621220/19	2.0	0.50771	50.0	2179494.0	0.253855	Y
4	IC 280-621220/18	5.0	1.604219	50.0	2161519.0	0.320844	Y
5	IC 280-621220/17	10.0	2.87926	50.0	2216038.0	0.287926	Y
6	ICIS 280-621220/16	50.0	13.800612	50.0	2317582.0	0.276012	Y
7	IC 280-621220/15	75.0	21.177955	50.0	2262624.0	0.282373	Y
8	IC 280-621220/14	100.0	28.502984	50.0	2263977.0	0.28503	Y
9	IC 280-621220/13	200.0	58.906085	50.0	2209843.0	0.29453	Y



Calibration

/ 1,4-Dioxane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

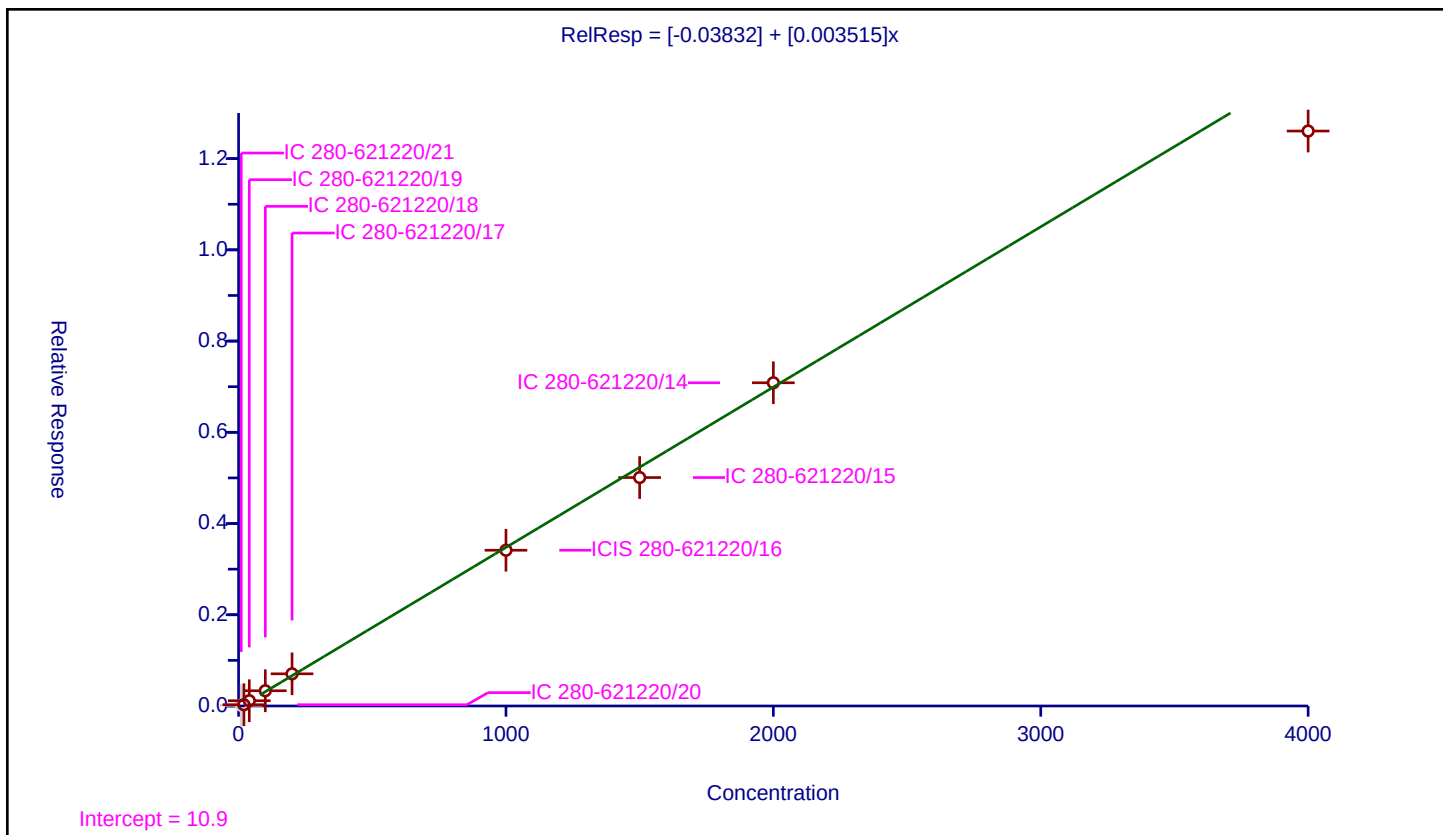
Curve Coefficients

Intercept: -0.03832
 Slope: 0.003515

Error Coefficients

Standard Error: 286000
 Relative Standard Error: 7.3
 Correlation Coefficient: 0.994
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	10.0	0.016017	50.0	2022878.0	0.001602	N
2	IC 280-621220/20	20.0	0.027578	50.0	2130300.0	0.001379	Y
3	IC 280-621220/19	40.0	0.115187	50.0	2179494.0	0.00288	Y
4	IC 280-621220/18	100.0	0.334233	50.0	2161519.0	0.003342	Y
5	IC 280-621220/17	200.0	0.705448	50.0	2216038.0	0.003527	Y
6	ICIS 280-621220/16	1000.0	3.414744	50.0	2317582.0	0.003415	Y
7	IC 280-621220/15	1500.0	5.008123	50.0	2262624.0	0.003339	Y
8	IC 280-621220/14	2000.0	7.085739	50.0	2263977.0	0.003543	Y
9	IC 280-621220/13	4000.0	12.604764	50.0	2209843.0	0.003151	Y



Calibration

/ Dibromomethane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

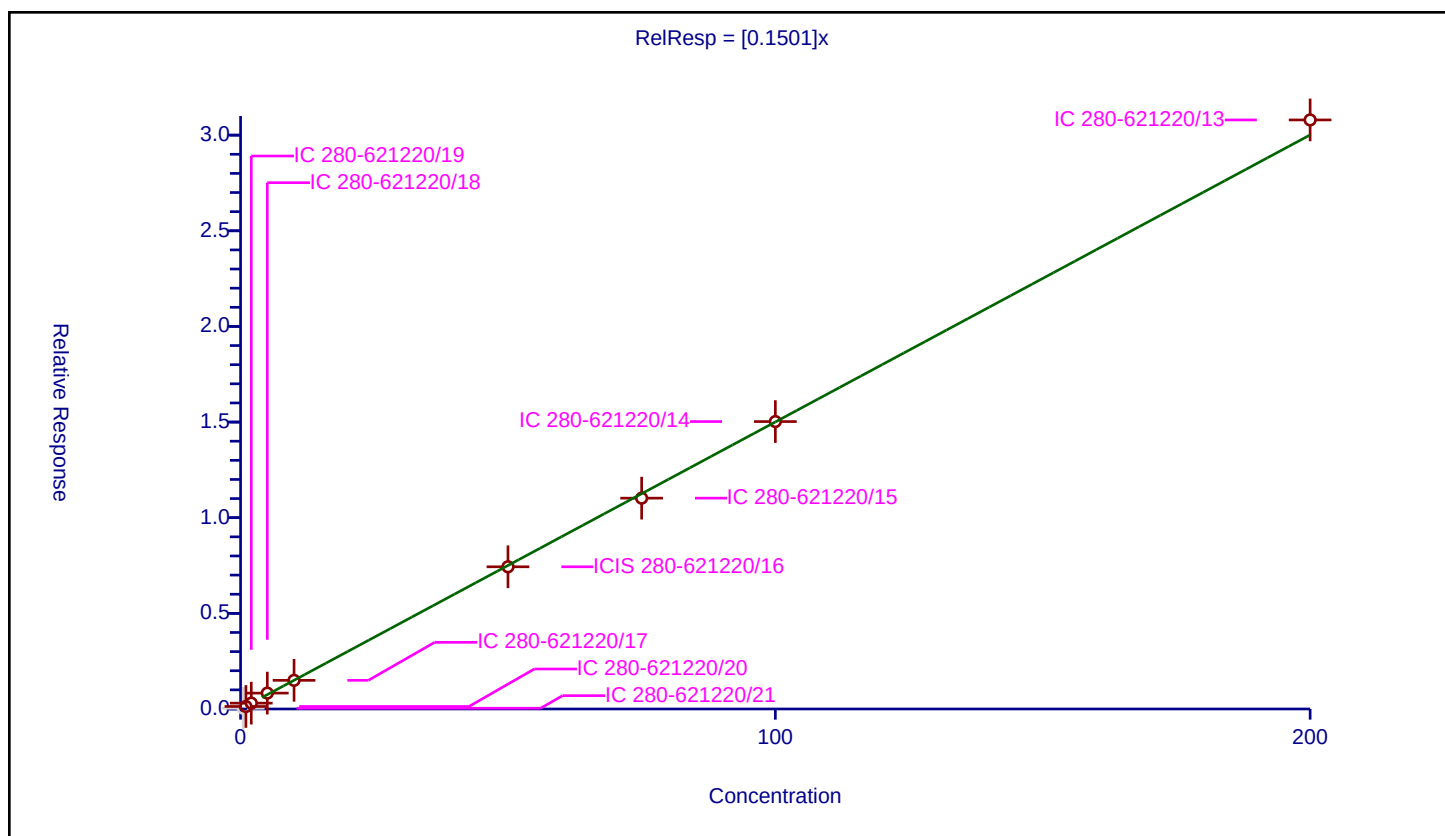
Curve Coefficients

Intercept: 0
Slope: 0.1501

Error Coefficients

Standard Error: 620000
Relative Standard Error: 6.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.039523	50.0	2022878.0	0.079046	N
2	IC 280-621220/20	1.0	0.131648	50.0	2130300.0	0.131648	Y
3	IC 280-621220/19	2.0	0.306218	50.0	2179494.0	0.153109	Y
4	IC 280-621220/18	5.0	0.830365	50.0	2161519.0	0.166073	Y
5	IC 280-621220/17	10.0	1.497425	50.0	2216038.0	0.149742	Y
6	ICIS 280-621220/16	50.0	7.43443	50.0	2317582.0	0.148689	Y
7	IC 280-621220/15	75.0	11.022291	50.0	2262624.0	0.146964	Y
8	IC 280-621220/14	100.0	15.026765	50.0	2263977.0	0.150268	Y
9	IC 280-621220/13	200.0	30.794563	50.0	2209843.0	0.153973	Y



Calibration

/ Dichlorobromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

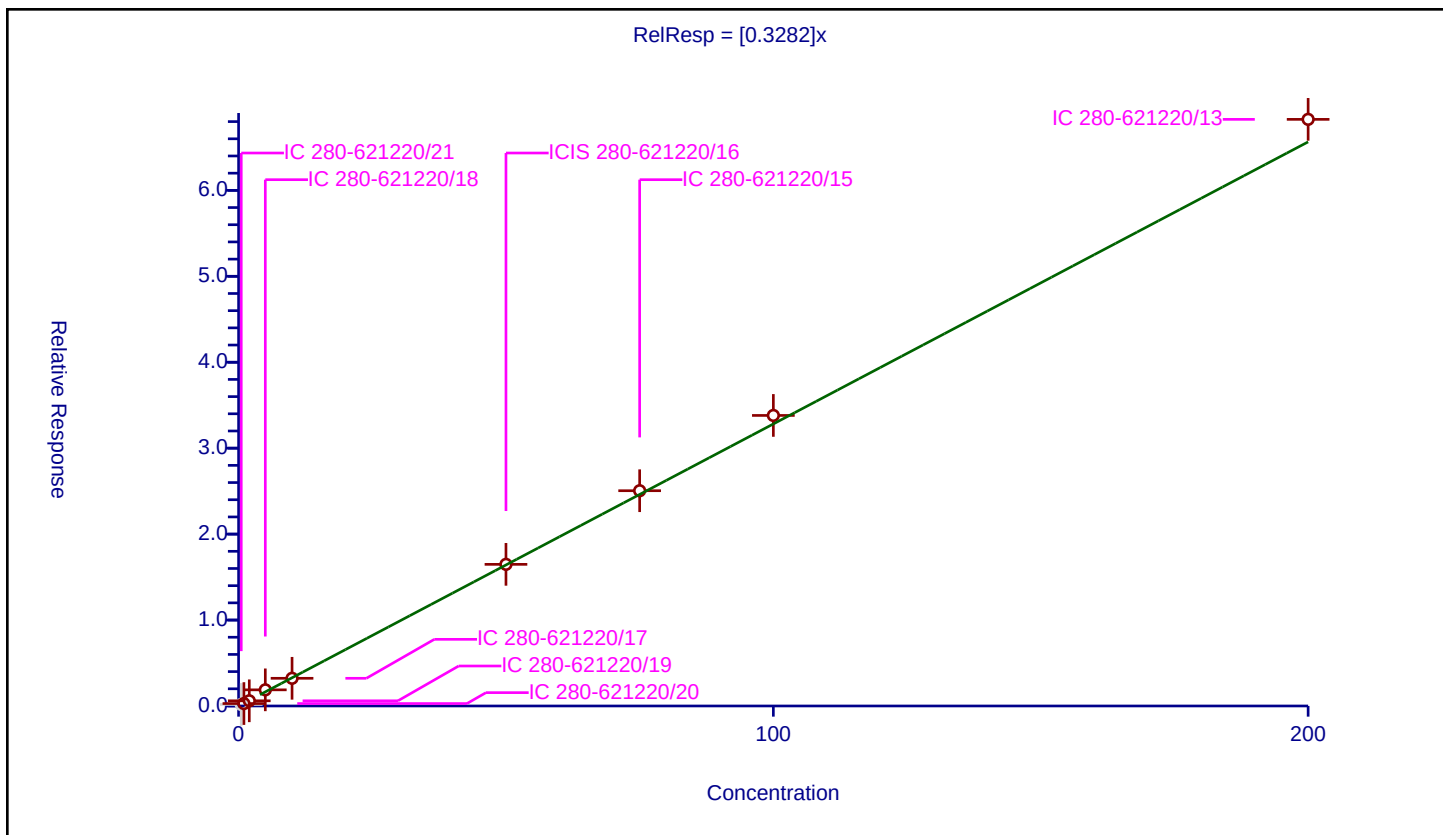
Curve Coefficients

Intercept: 0
 Slope: 0.3282

Error Coefficients

Standard Error: 1380000
 Relative Standard Error: 8.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.177742	50.0	2022878.0	0.355484	N
2	IC 280-621220/20	1.0	0.283035	50.0	2130300.0	0.283035	Y
3	IC 280-621220/19	2.0	0.603535	50.0	2179494.0	0.301767	Y
4	IC 280-621220/18	5.0	1.878239	50.0	2161519.0	0.375648	Y
5	IC 280-621220/17	10.0	3.221876	50.0	2216038.0	0.322188	Y
6	ICIS 280-621220/16	50.0	16.480517	50.0	2317582.0	0.32961	Y
7	IC 280-621220/15	75.0	25.049191	50.0	2262624.0	0.333989	Y
8	IC 280-621220/14	100.0	33.808382	50.0	2263977.0	0.338084	Y
9	IC 280-621220/13	200.0	68.26261	50.0	2209843.0	0.341313	Y



Calibration

/ 2-Chloroethyl vinyl ether

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

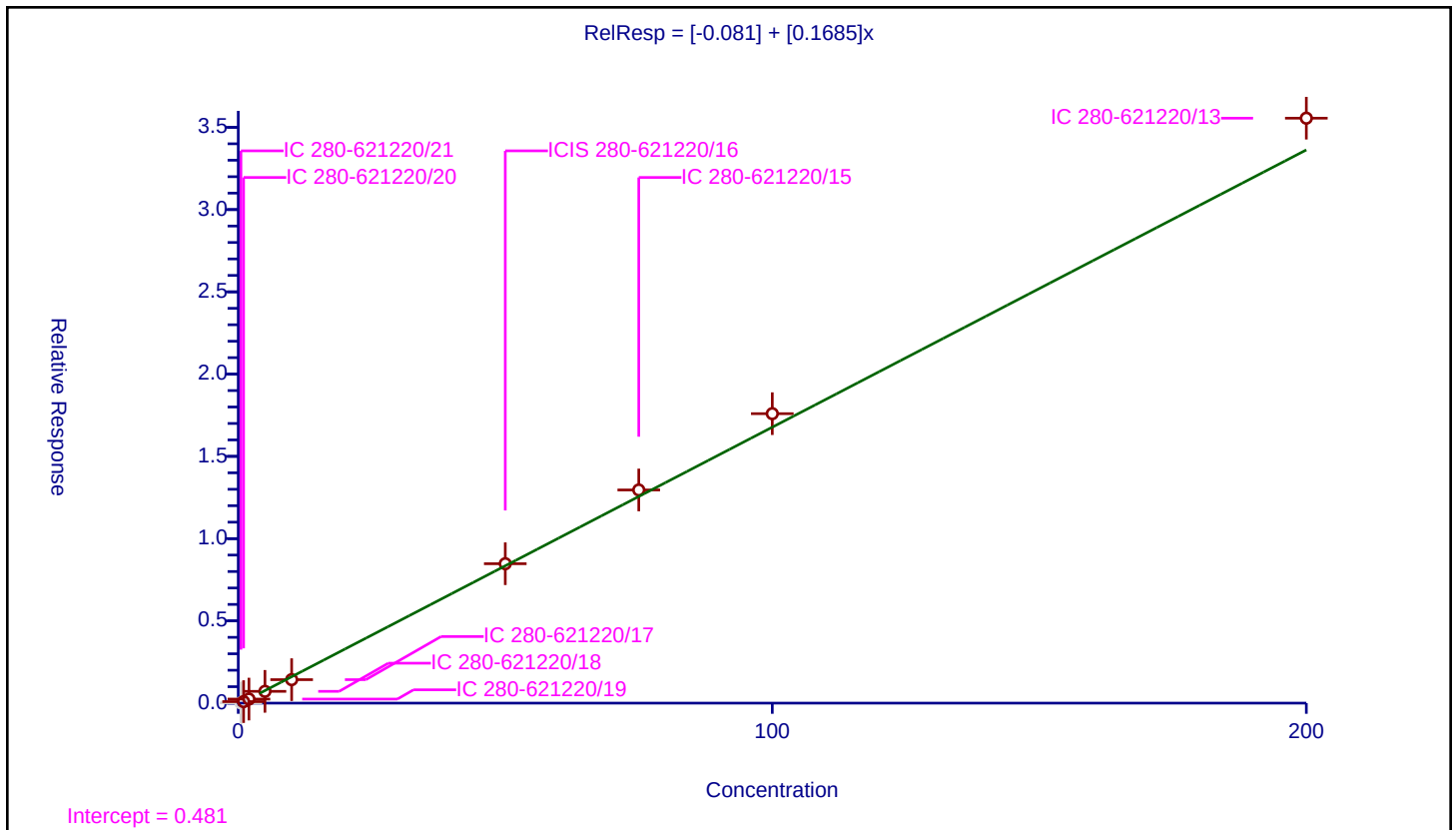
Curve Coefficients

Intercept: -0.081
 Slope: 0.1685

Error Coefficients

Standard Error: 775000
 Relative Standard Error: 6.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.015424	50.0	2022878.0	0.030847	N
2	IC 280-621220/20	1.0	0.093062	50.0	2130300.0	0.093062	Y
3	IC 280-621220/19	2.0	0.24742	50.0	2179494.0	0.12371	Y
4	IC 280-621220/18	5.0	0.716256	50.0	2161519.0	0.143251	Y
5	IC 280-621220/17	10.0	1.426532	50.0	2216038.0	0.142653	Y
6	ICIS 280-621220/16	50.0	8.474155	50.0	2317582.0	0.169483	Y
7	IC 280-621220/15	75.0	12.956881	50.0	2262624.0	0.172758	Y
8	IC 280-621220/14	100.0	17.59532	50.0	2263977.0	0.175953	Y
9	IC 280-621220/13	200.0	35.555693	50.0	2209843.0	0.177778	Y



Calibration

/ cis-1,3-Dichloropropene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

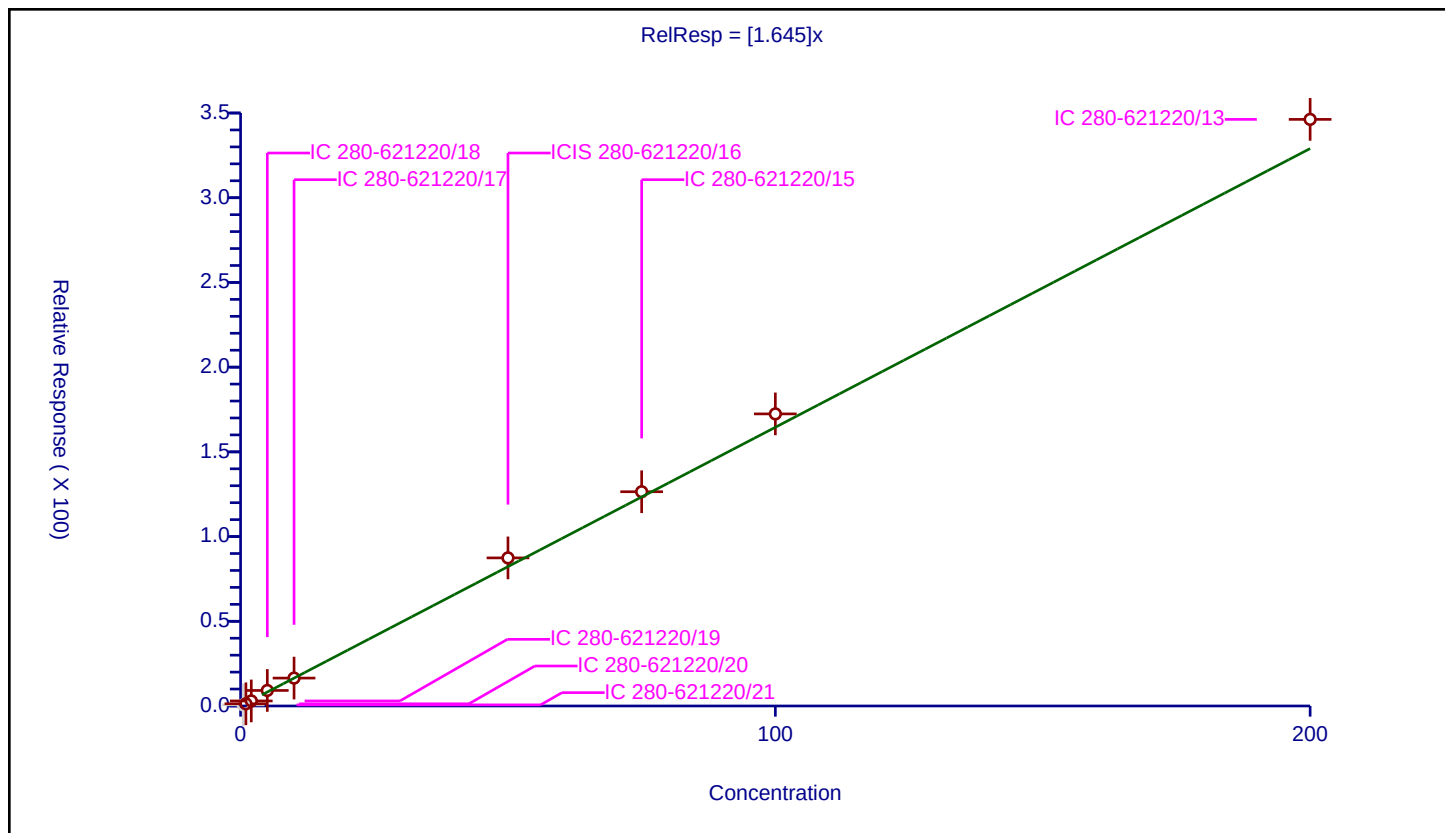
Curve Coefficients

Intercept: 0
Slope: 1.645

Error Coefficients

Standard Error: 1810000
Relative Standard Error: 10.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.661834	50.0	492571.0	1.323667	N
2	IC 280-621220/20	1.0	1.301797	50.0	515326.0	1.301797	Y
3	IC 280-621220/19	2.0	2.977537	50.0	532739.0	1.488768	Y
4	IC 280-621220/18	5.0	9.172663	50.0	530920.0	1.834533	Y
5	IC 280-621220/17	10.0	16.46435	50.0	540571.0	1.646435	Y
6	ICIS 280-621220/16	50.0	87.407999	50.0	571323.0	1.74816	Y
7	IC 280-621220/15	75.0	126.455675	50.0	573514.0	1.686076	Y
8	IC 280-621220/14	100.0	172.400101	50.0	570801.0	1.724001	Y
9	IC 280-621220/13	200.0	346.243617	50.0	574369.0	1.731218	Y



Calibration

/ 4-Methyl-2-pentanone (MIBK)

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

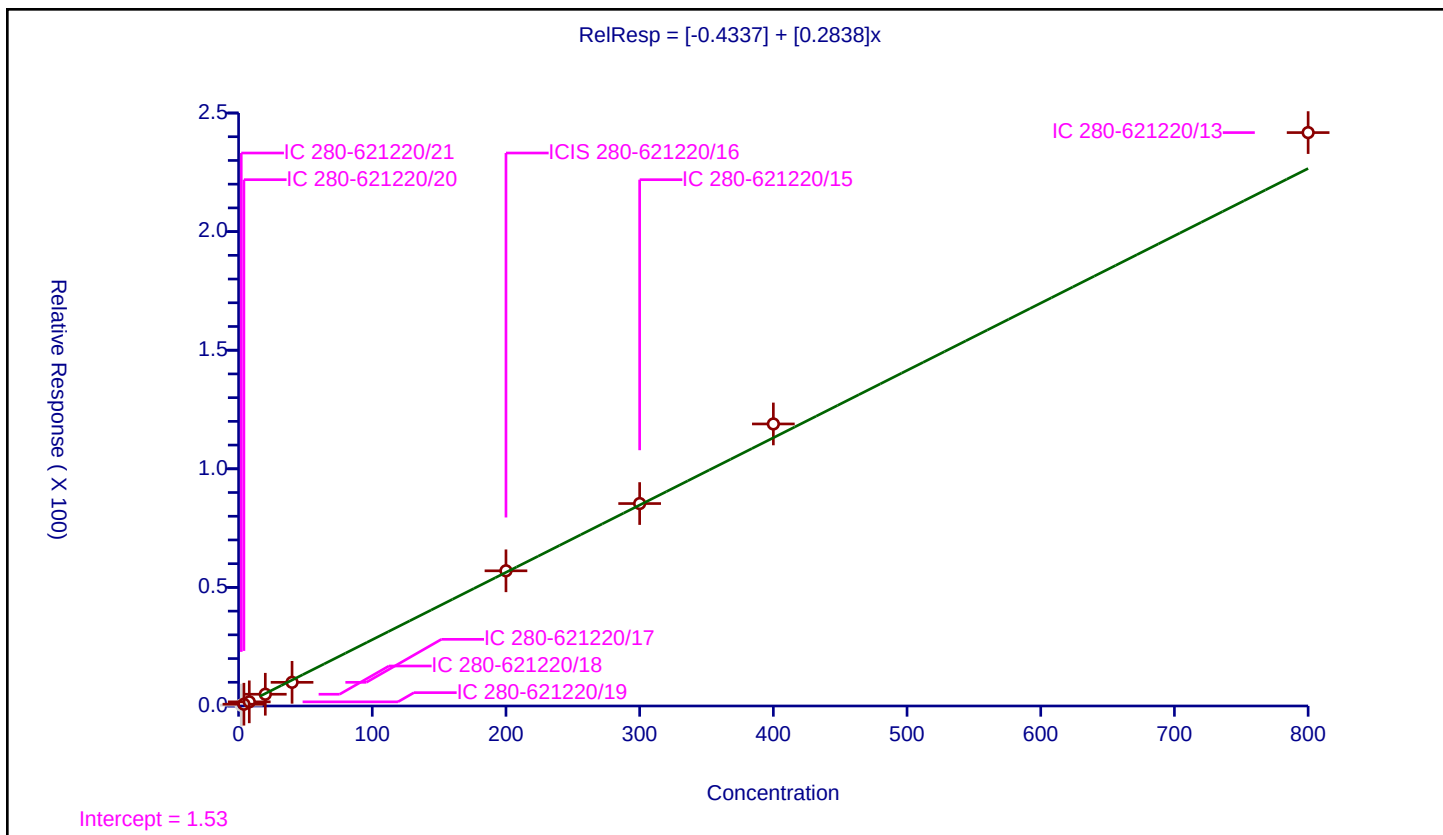
Curve Coefficients

Intercept: -0.4337
 Slope: 0.2838

Error Coefficients

Standard Error: 5250000
 Relative Standard Error: 5.7
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	2.0	0.33964	50.0	2022878.0	0.16982	N
2	IC 280-621220/20	4.0	0.743557	50.0	2130300.0	0.185889	Y
3	IC 280-621220/19	8.0	1.74841	50.0	2179494.0	0.218551	Y
4	IC 280-621220/18	20.0	4.947262	50.0	2161519.0	0.247363	Y
5	IC 280-621220/17	40.0	9.972618	50.0	2216038.0	0.249315	Y
6	ICIS 280-621220/16	200.0	56.994553	50.0	2317582.0	0.284973	Y
7	IC 280-621220/15	300.0	85.349444	50.0	2262624.0	0.284498	Y
8	IC 280-621220/14	400.0	118.904167	50.0	2263977.0	0.29726	Y
9	IC 280-621220/13	800.0	241.749572	50.0	2209843.0	0.302187	Y



Calibration

/ Toluene-d8 (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

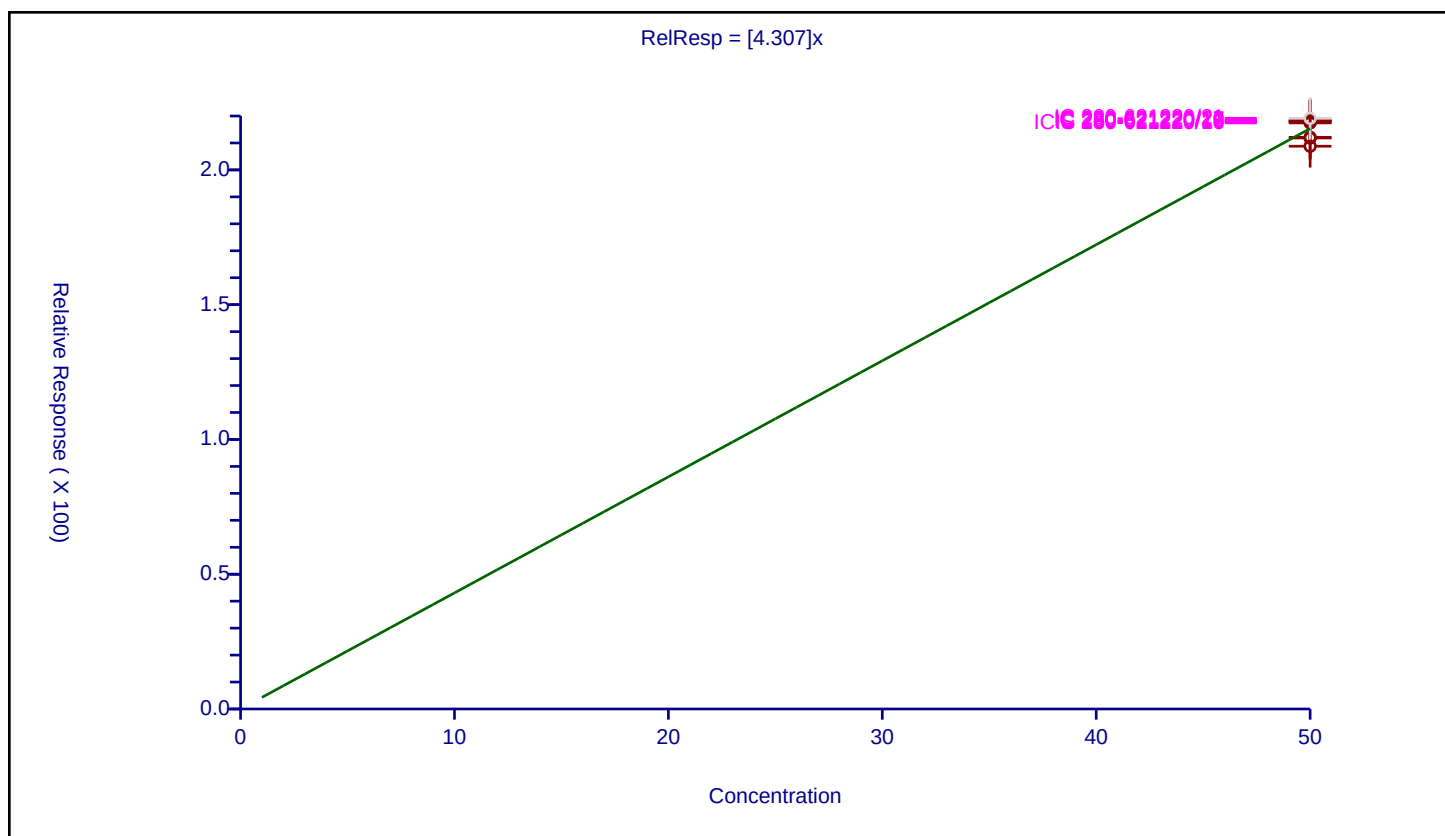
Curve Coefficients

Intercept: 0
 Slope: 4.307

Error Coefficients

Standard Error: 2540000
 Relative Standard Error: 1.8
 Correlation Coefficient: 0
 Coefficient of Determination (Adjusted): 0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/13	50.0	208.785815	50.0	574369.0	4.175716	Y
2	IC 280-621220/14	50.0	211.846423	50.0	570801.0	4.236928	Y
3	IC 280-621220/15	50.0	212.081832	50.0	573514.0	4.241637	Y
4	ICIS 280-621220/16	50.0	217.451074	50.0	571323.0	4.349021	Y
5	IC 280-621220/17	50.0	218.407758	50.0	540571.0	4.368155	Y
6	IC 280-621220/18	50.0	218.004219	50.0	530920.0	4.360084	Y
7	IC 280-621220/19	50.0	217.765266	50.0	532739.0	4.355305	Y
8	IC 280-621220/20	50.0	218.290655	50.0	515326.0	4.365813	Y
9	IC 280-621220/21	50.0	219.135414	50.0	492571.0	4.382708	N



Calibration

/ Toluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

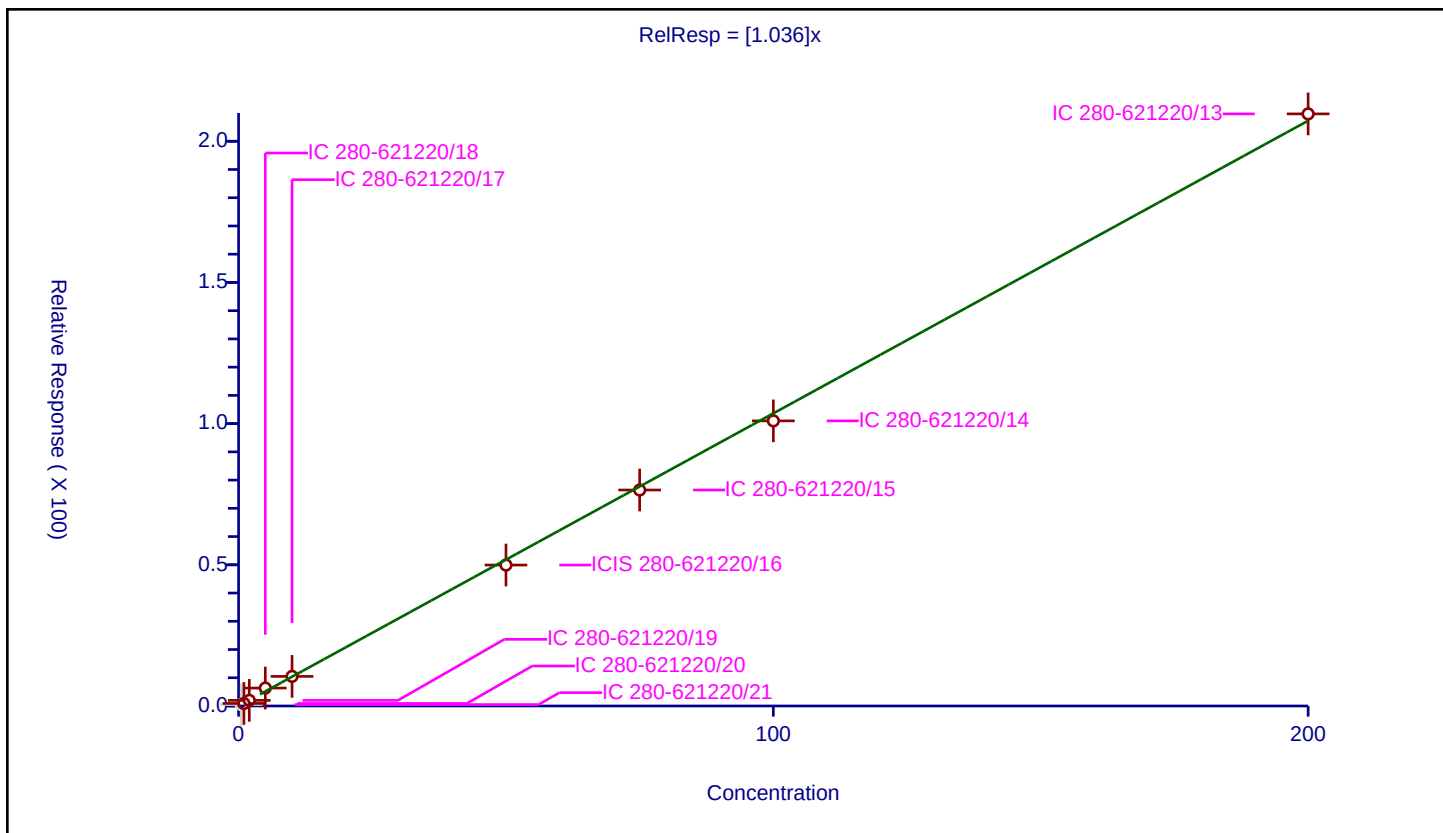
Curve Coefficients

Intercept: 0
 Slope: 1.036

Error Coefficients

Standard Error: 4220000
 Relative Standard Error: 10.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.506852	50.0	2022878.0	1.013704	N
2	IC 280-621220/20	1.0	0.90215	50.0	2130300.0	0.90215	Y
3	IC 280-621220/19	2.0	1.987686	50.0	2179494.0	0.993843	Y
4	IC 280-621220/18	5.0	6.351459	50.0	2161519.0	1.270292	Y
5	IC 280-621220/17	10.0	10.48098	50.0	2216038.0	1.048098	Y
6	ICIS 280-621220/16	50.0	49.913617	50.0	2317582.0	0.998272	Y
7	IC 280-621220/15	75.0	76.486416	50.0	2262624.0	1.019819	Y
8	IC 280-621220/14	100.0	100.972404	50.0	2263977.0	1.009724	Y
9	IC 280-621220/13	200.0	209.686819	50.0	2209843.0	1.048434	Y



Calibration

/ trans-1,3-Dichloropropene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

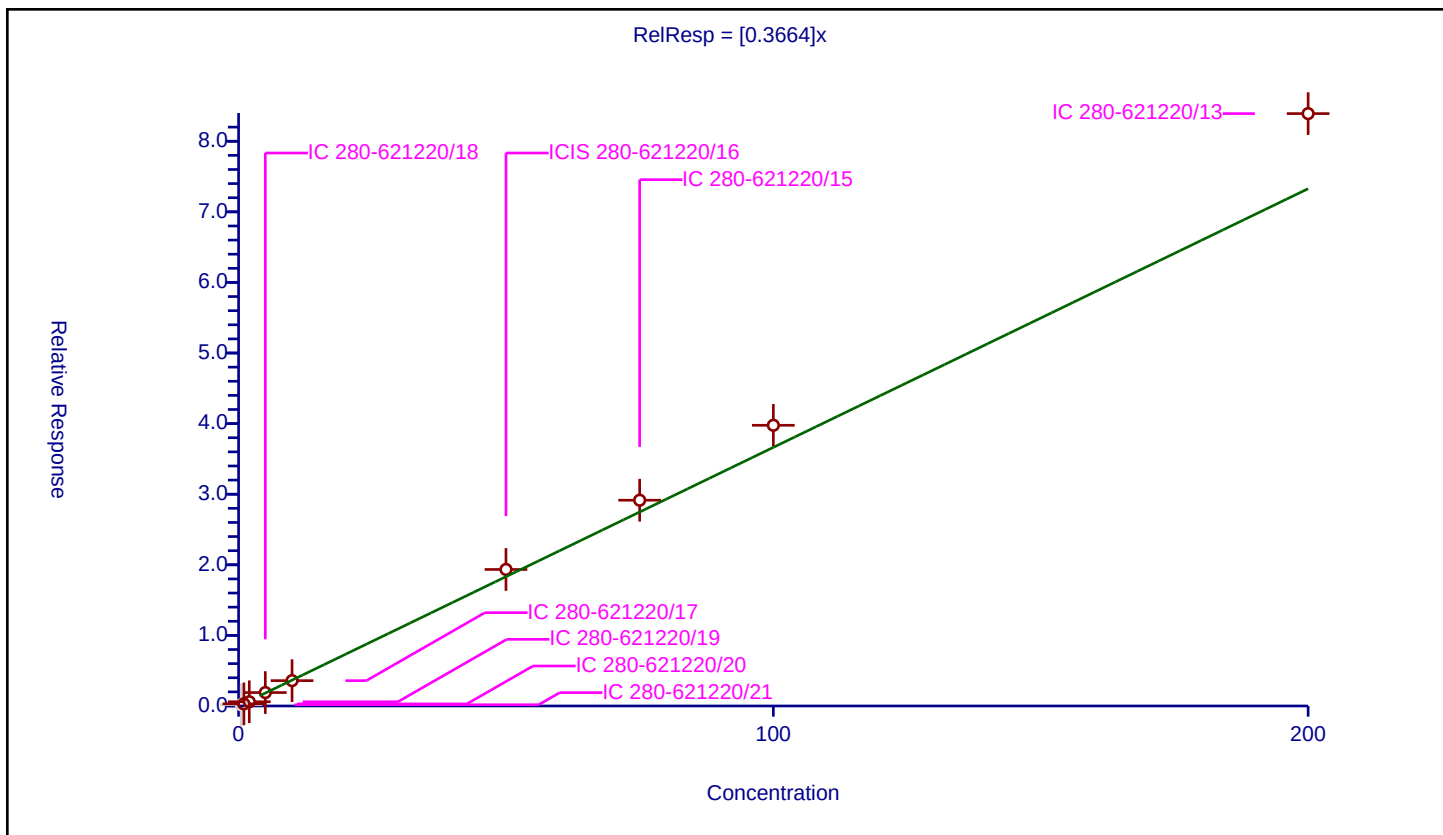
Curve Coefficients

Intercept: 0
 Slope: 0.3664

Error Coefficients

Standard Error: 1670000
 Relative Standard Error: 12.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.177791	50.0	2022878.0	0.355582	N
2	IC 280-621220/20	1.0	0.299512	50.0	2130300.0	0.299512	Y
3	IC 280-621220/19	2.0	0.598556	50.0	2179494.0	0.299278	Y
4	IC 280-621220/18	5.0	1.902875	50.0	2161519.0	0.380575	Y
5	IC 280-621220/17	10.0	3.58983	50.0	2216038.0	0.358983	Y
6	ICIS 280-621220/16	50.0	19.337892	50.0	2317582.0	0.386758	Y
7	IC 280-621220/15	75.0	29.149054	50.0	2262624.0	0.388654	Y
8	IC 280-621220/14	100.0	39.764362	50.0	2263977.0	0.397644	Y
9	IC 280-621220/13	200.0	83.91612	50.0	2209843.0	0.419581	Y



Calibration

/ Ethyl methacrylate

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

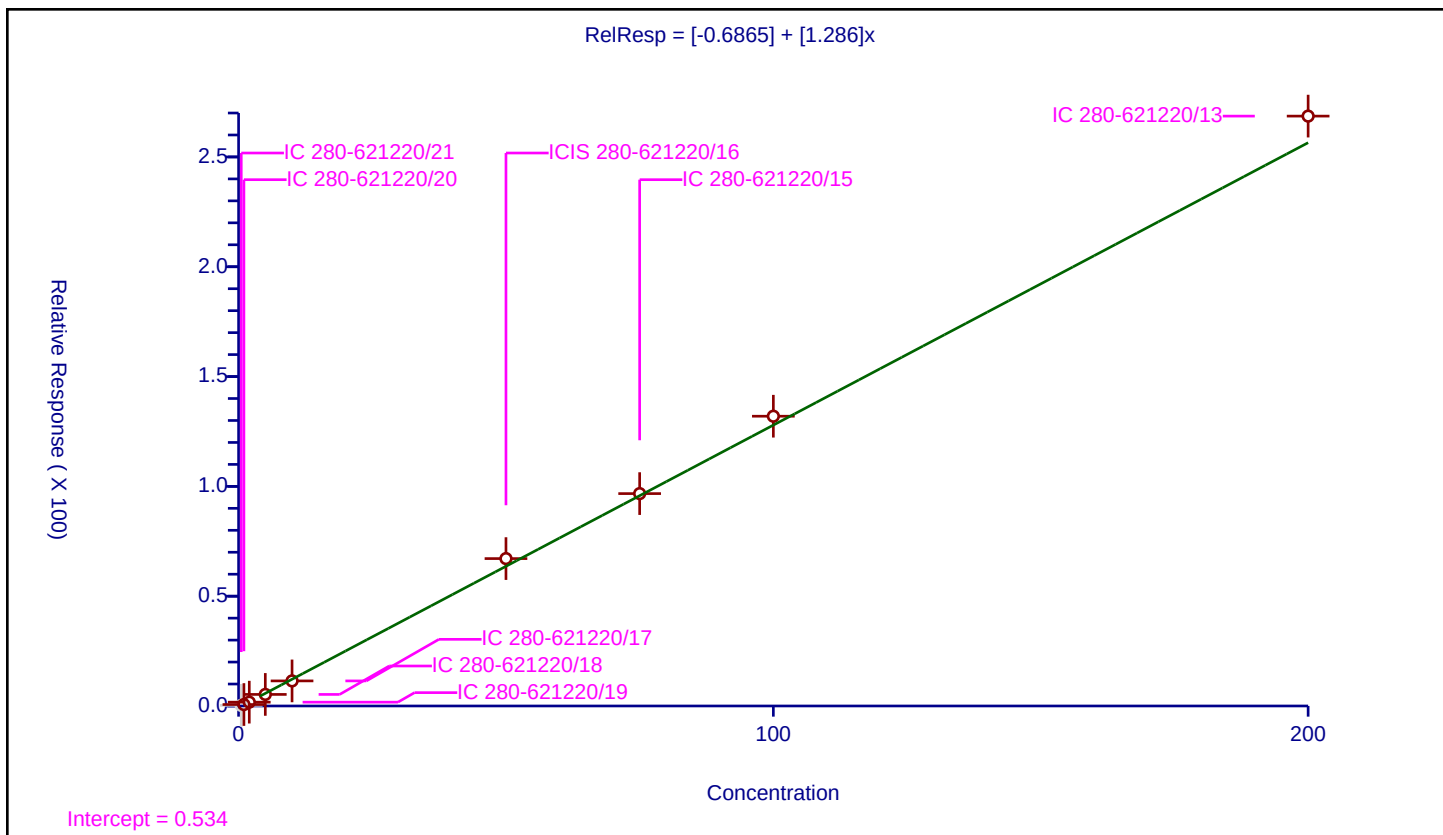
Curve Coefficients

Intercept: -0.6865
 Slope: 1.286

Error Coefficients

Standard Error: 1510000
 Relative Standard Error: 5.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.284528	50.0	492571.0	0.569055	N
2	IC 280-621220/20	1.0	0.660553	50.0	515326.0	0.660553	Y
3	IC 280-621220/19	2.0	1.738469	50.0	532739.0	0.869234	Y
4	IC 280-621220/18	5.0	5.263034	50.0	530920.0	1.052607	Y
5	IC 280-621220/17	10.0	11.415244	50.0	540571.0	1.141524	Y
6	ICIS 280-621220/16	50.0	67.110374	50.0	571323.0	1.342207	Y
7	IC 280-621220/15	75.0	96.70566	50.0	573514.0	1.289409	Y
8	IC 280-621220/14	100.0	131.947561	50.0	570801.0	1.319476	Y
9	IC 280-621220/13	200.0	268.592142	50.0	574369.0	1.342961	Y



Calibration

/ 1,1,2-Trichloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

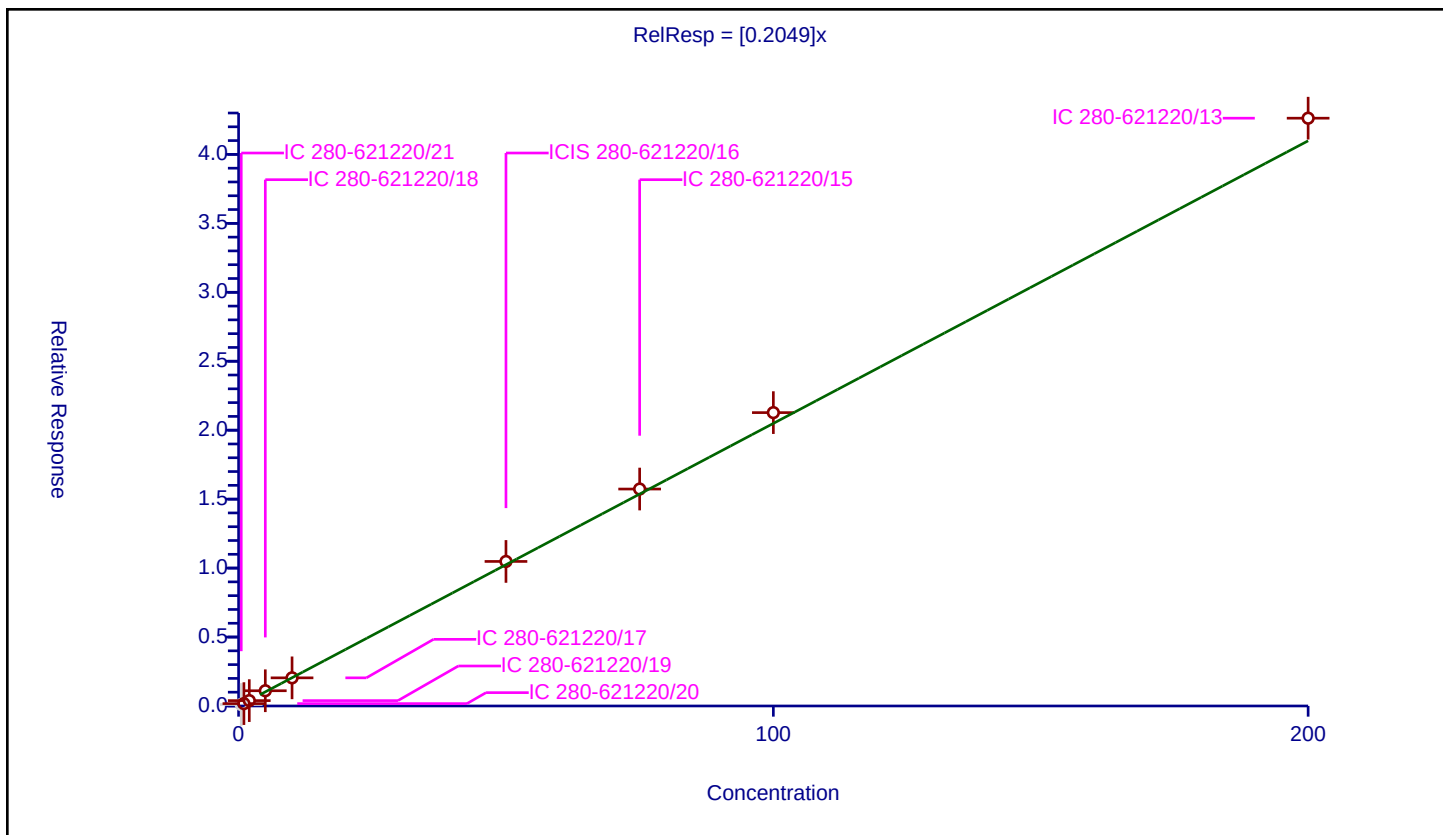
Curve Coefficients

Intercept: 0
 Slope: 0.2049

Error Coefficients

Standard Error: 864000
 Relative Standard Error: 7.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.10705	50.0	2022878.0	0.214101	N
2	IC 280-621220/20	1.0	0.173778	50.0	2130300.0	0.173778	Y
3	IC 280-621220/19	2.0	0.390343	50.0	2179494.0	0.195171	Y
4	IC 280-621220/18	5.0	1.104755	50.0	2161519.0	0.220951	Y
5	IC 280-621220/17	10.0	2.041887	50.0	2216038.0	0.204189	Y
6	ICIS 280-621220/16	50.0	10.481485	50.0	2317582.0	0.20963	Y
7	IC 280-621220/15	75.0	15.732287	50.0	2262624.0	0.209764	Y
8	IC 280-621220/14	100.0	21.274222	50.0	2263977.0	0.212742	Y
9	IC 280-621220/13	200.0	42.624431	50.0	2209843.0	0.213122	Y



Calibration

/ Tetrachloroethene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

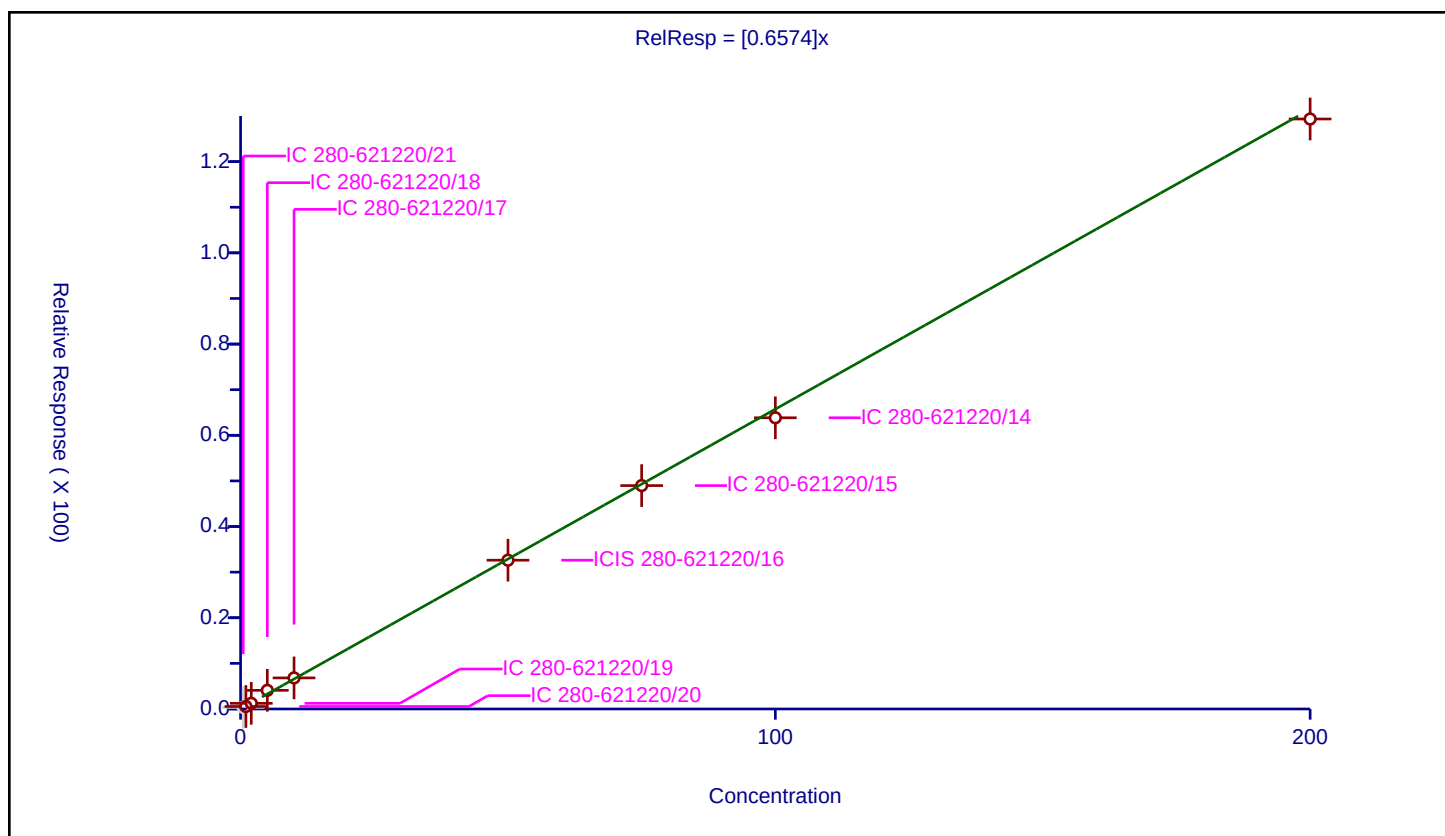
Curve Coefficients

Intercept: 0
Slope: 0.6574

Error Coefficients

Standard Error: 676000
Relative Standard Error: 11.5
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.347666	50.0	492571.0	0.695331	N
2	IC 280-621220/20	1.0	0.548779	50.0	515326.0	0.548779	Y
3	IC 280-621220/19	2.0	1.24179	50.0	532739.0	0.620895	Y
4	IC 280-621220/18	5.0	4.087151	50.0	530920.0	0.81743	Y
5	IC 280-621220/17	10.0	6.812981	50.0	540571.0	0.681298	Y
6	ICIS 280-621220/16	50.0	32.617276	50.0	571323.0	0.652346	Y
7	IC 280-621220/15	75.0	48.97727	50.0	573514.0	0.65303	Y
8	IC 280-621220/14	100.0	63.843091	50.0	570801.0	0.638431	Y
9	IC 280-621220/13	200.0	129.342896	50.0	574369.0	0.646714	Y



Calibration

/ 1,3-Dichloropropane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

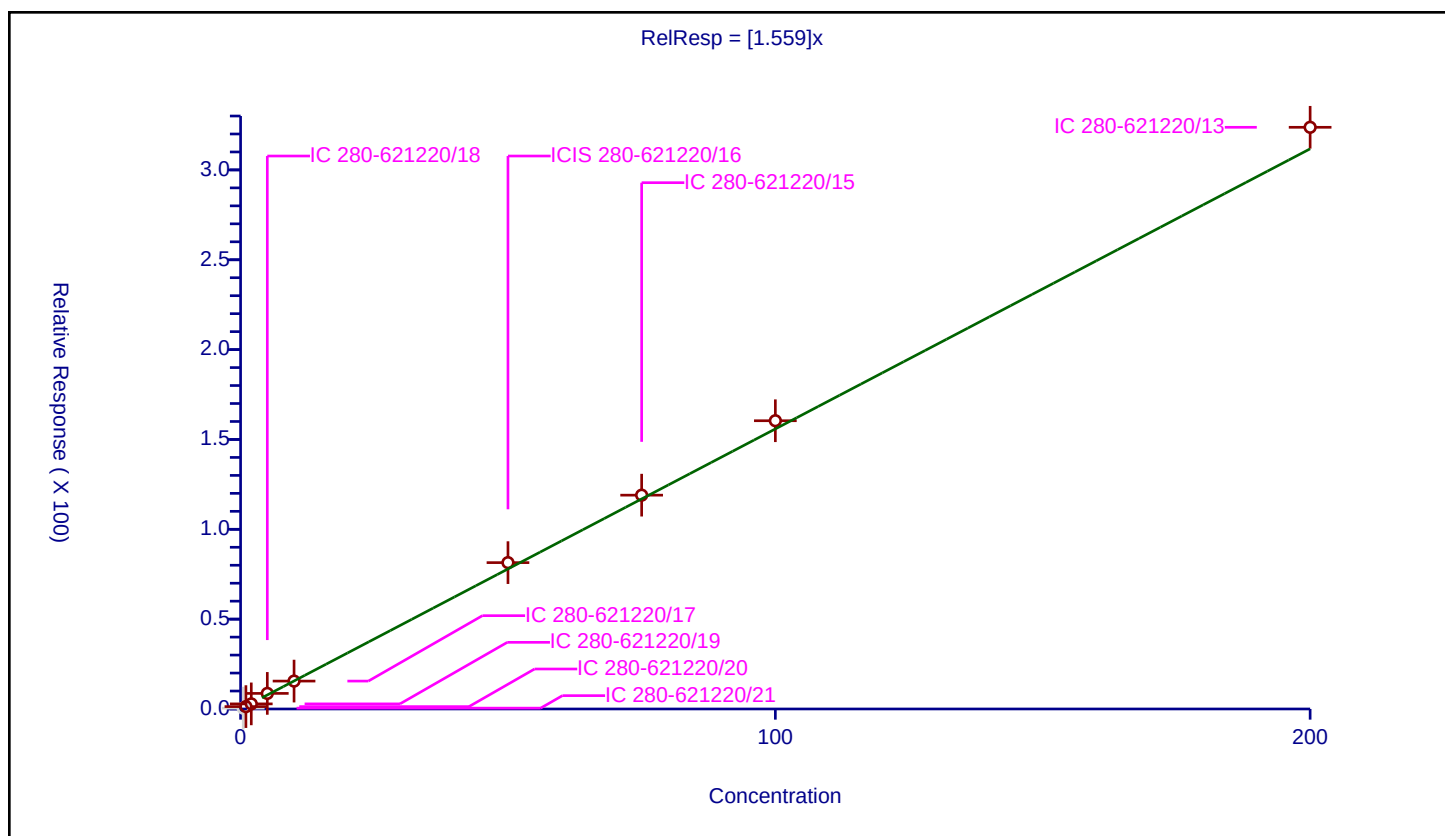
Curve Coefficients

Intercept: 0
 Slope: 1.559

Error Coefficients

Standard Error: 1690000
 Relative Standard Error: 8.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.47587	50.0	492571.0	0.951741	N
2	IC 280-621220/20	1.0	1.324113	50.0	515326.0	1.324113	Y
3	IC 280-621220/19	2.0	2.840134	50.0	532739.0	1.420067	Y
4	IC 280-621220/18	5.0	8.667408	50.0	530920.0	1.733482	Y
5	IC 280-621220/17	10.0	15.53191	50.0	540571.0	1.553191	Y
6	ICIS 280-621220/16	50.0	81.450073	50.0	571323.0	1.629001	Y
7	IC 280-621220/15	75.0	119.004941	50.0	573514.0	1.586733	Y
8	IC 280-621220/14	100.0	160.419218	50.0	570801.0	1.604192	Y
9	IC 280-621220/13	200.0	323.722816	50.0	574369.0	1.618614	Y



Calibration

/ 2-Hexanone

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

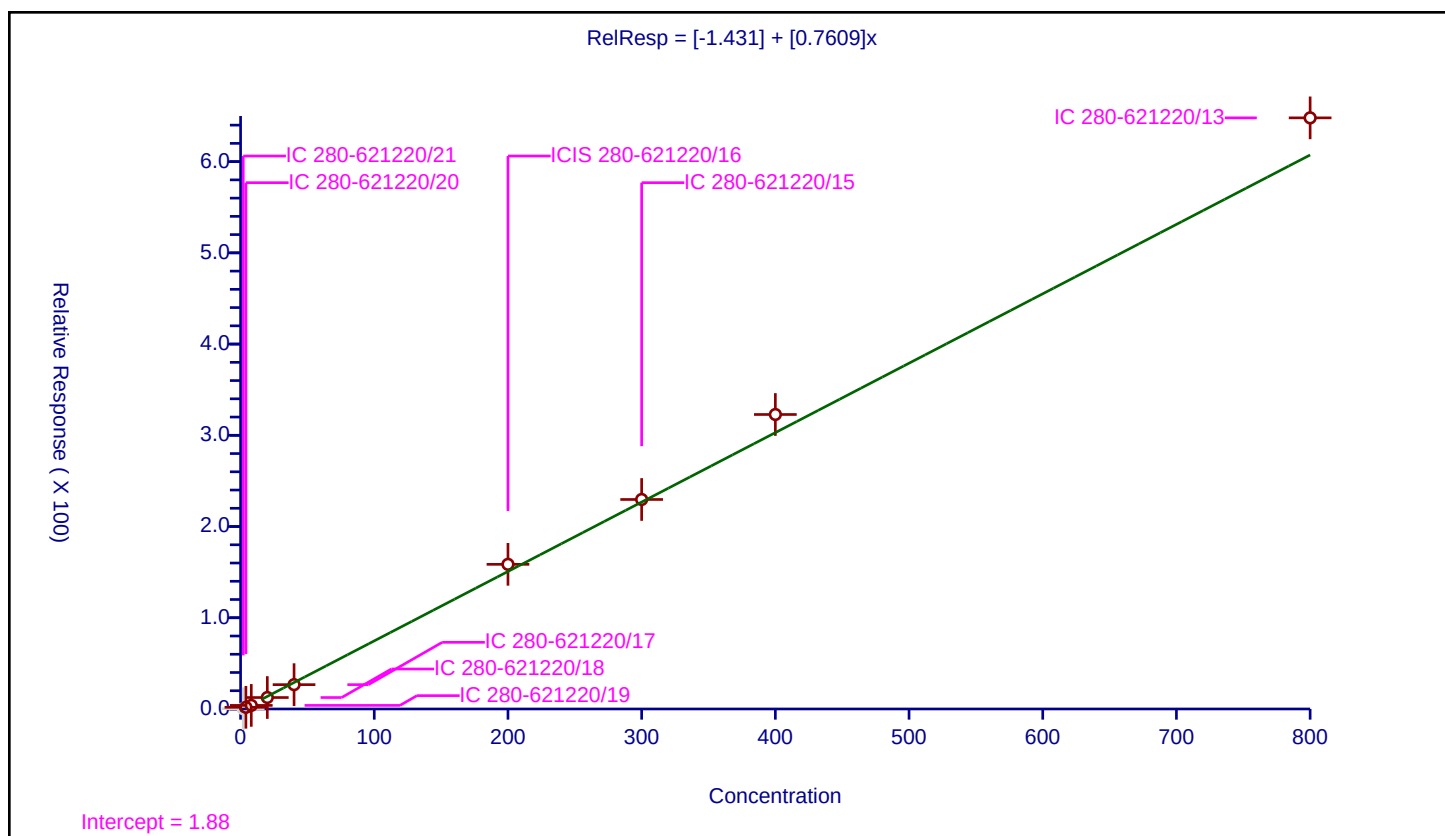
Curve Coefficients

Intercept: -1.431
Slope: 0.7609

Error Coefficients

Standard Error: 3640000
Relative Standard Error: 8.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	2.0	0.31904	50.0	492571.0	0.15952	N
2	IC 280-621220/20	4.0	1.860376	50.0	515326.0	0.465094	Y
3	IC 280-621220/19	8.0	3.926407	50.0	532739.0	0.490801	Y
4	IC 280-621220/18	20.0	12.559425	50.0	530920.0	0.627971	Y
5	IC 280-621220/17	40.0	26.665692	50.0	540571.0	0.666642	Y
6	ICIS 280-621220/16	200.0	158.551642	50.0	571323.0	0.792758	Y
7	IC 280-621220/15	300.0	229.653505	50.0	573514.0	0.765512	Y
8	IC 280-621220/14	400.0	322.825118	50.0	570801.0	0.807063	Y
9	IC 280-621220/13	800.0	647.971687	50.0	574369.0	0.809965	Y



Calibration

/ Chlorodibromomethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

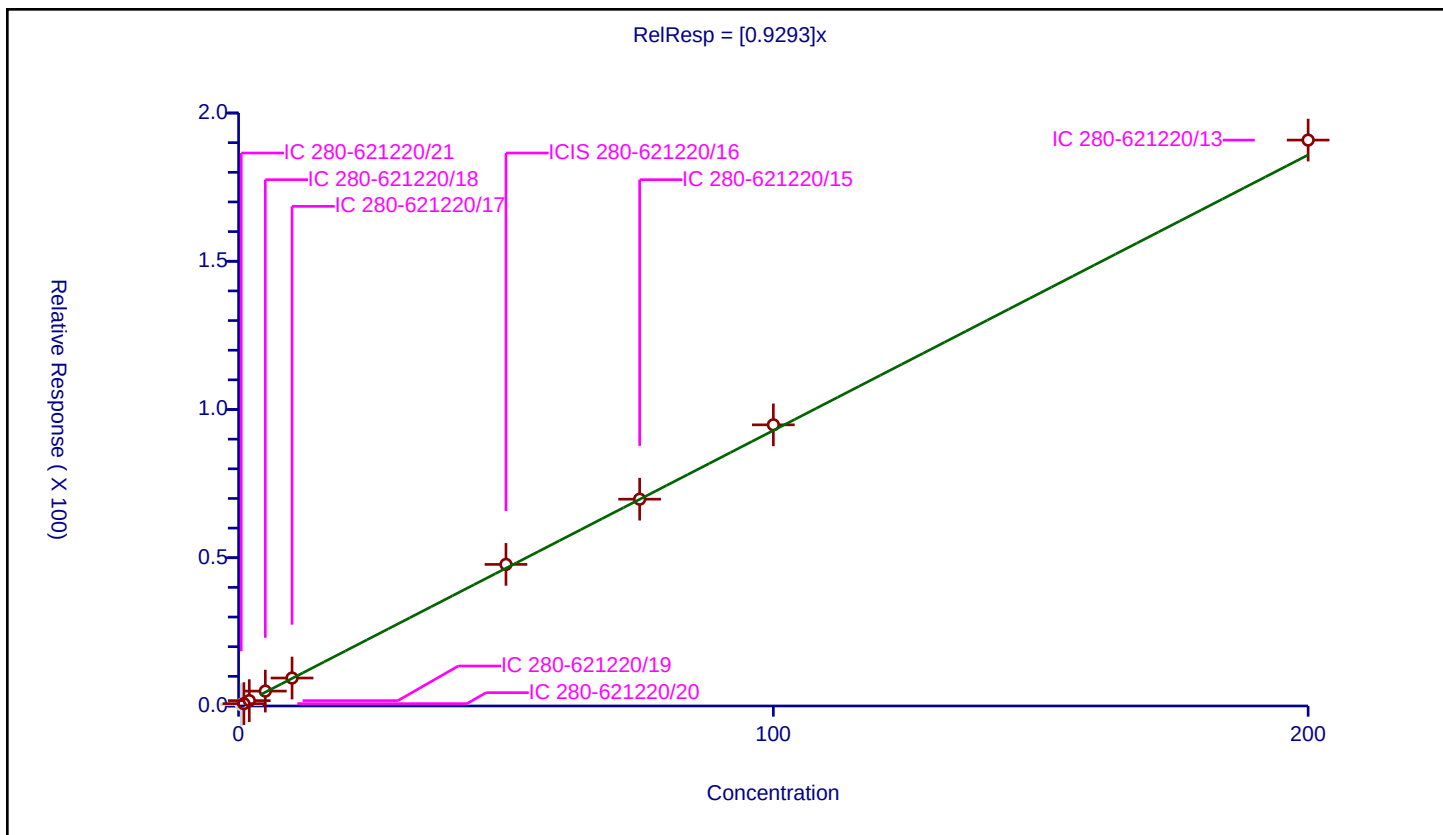
Curve Coefficients

Intercept: 0
 Slope: 0.9293

Error Coefficients

Standard Error: 995000
 Relative Standard Error: 6.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.479119	50.0	492571.0	0.958237	N
2	IC 280-621220/20	1.0	0.795322	50.0	515326.0	0.795322	Y
3	IC 280-621220/19	2.0	1.808203	50.0	532739.0	0.904101	Y
4	IC 280-621220/18	5.0	5.023073	50.0	530920.0	1.004615	Y
5	IC 280-621220/17	10.0	9.427069	50.0	540571.0	0.942707	Y
6	ICIS 280-621220/16	50.0	47.755823	50.0	571323.0	0.955116	Y
7	IC 280-621220/15	75.0	69.759064	50.0	573514.0	0.930121	Y
8	IC 280-621220/14	100.0	94.832963	50.0	570801.0	0.94833	Y
9	IC 280-621220/13	200.0	190.868066	50.0	574369.0	0.95434	Y



Calibration

/ Ethylene Dibromide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

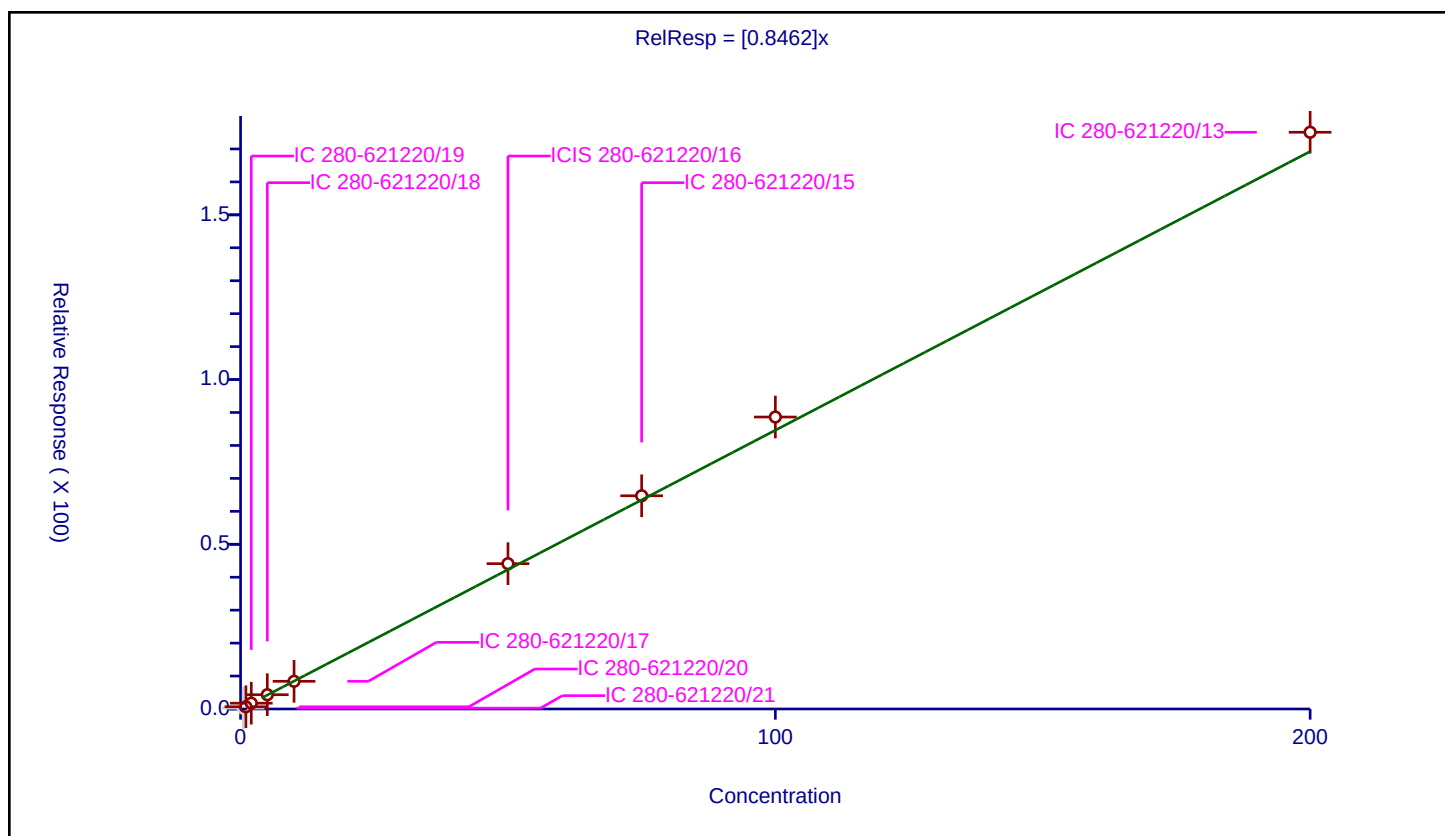
Curve Coefficients

Intercept: 0
Slope: 0.8462

Error Coefficients

Standard Error: 917000
Relative Standard Error: 8.4
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.263617	50.0	492571.0	0.527234	N
2	IC 280-621220/20	1.0	0.67433	50.0	515326.0	0.67433	Y
3	IC 280-621220/19	2.0	1.762214	50.0	532739.0	0.881107	Y
4	IC 280-621220/18	5.0	4.333704	50.0	530920.0	0.866741	Y
5	IC 280-621220/17	10.0	8.405371	50.0	540571.0	0.840537	Y
6	ICIS 280-621220/16	50.0	44.11165	50.0	571323.0	0.882233	Y
7	IC 280-621220/15	75.0	64.723529	50.0	573514.0	0.86298	Y
8	IC 280-621220/14	100.0	88.624494	50.0	570801.0	0.886245	Y
9	IC 280-621220/13	200.0	175.067074	50.0	574369.0	0.875335	Y



Calibration

/ 1-Chlorohexane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

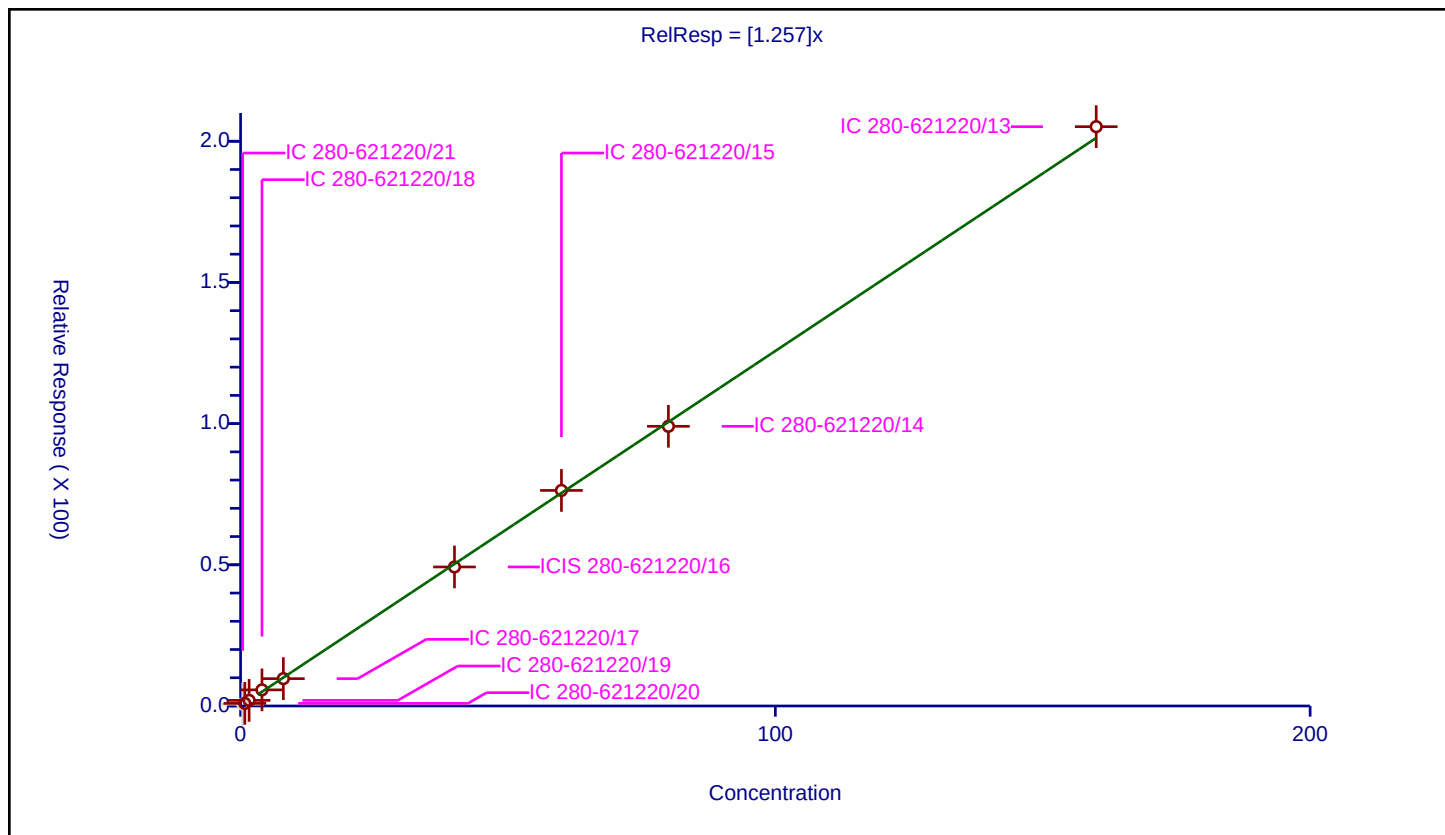
Curve Coefficients

Intercept: 0
 Slope: 1.257

Error Coefficients

Standard Error: 1060000
 Relative Standard Error: 6.3
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.4	0.651277	50.0	492571.0	1.628192	N
2	IC 280-621220/20	0.8	0.925434	50.0	515326.0	1.156792	Y
3	IC 280-621220/19	1.6	1.983523	50.0	532739.0	1.239702	Y
4	IC 280-621220/18	4.0	5.708016	50.0	530920.0	1.427004	Y
5	IC 280-621220/17	8.0	9.688182	50.0	540571.0	1.211023	Y
6	ICIS 280-621220/16	40.0	49.240097	50.0	571323.0	1.231002	Y
7	IC 280-621220/15	60.0	76.343646	50.0	573514.0	1.272394	Y
8	IC 280-621220/14	80.0	99.046866	50.0	570801.0	1.238086	Y
9	IC 280-621220/13	160.0	205.164015	50.0	574369.0	1.282275	Y



Calibration

/ Chlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

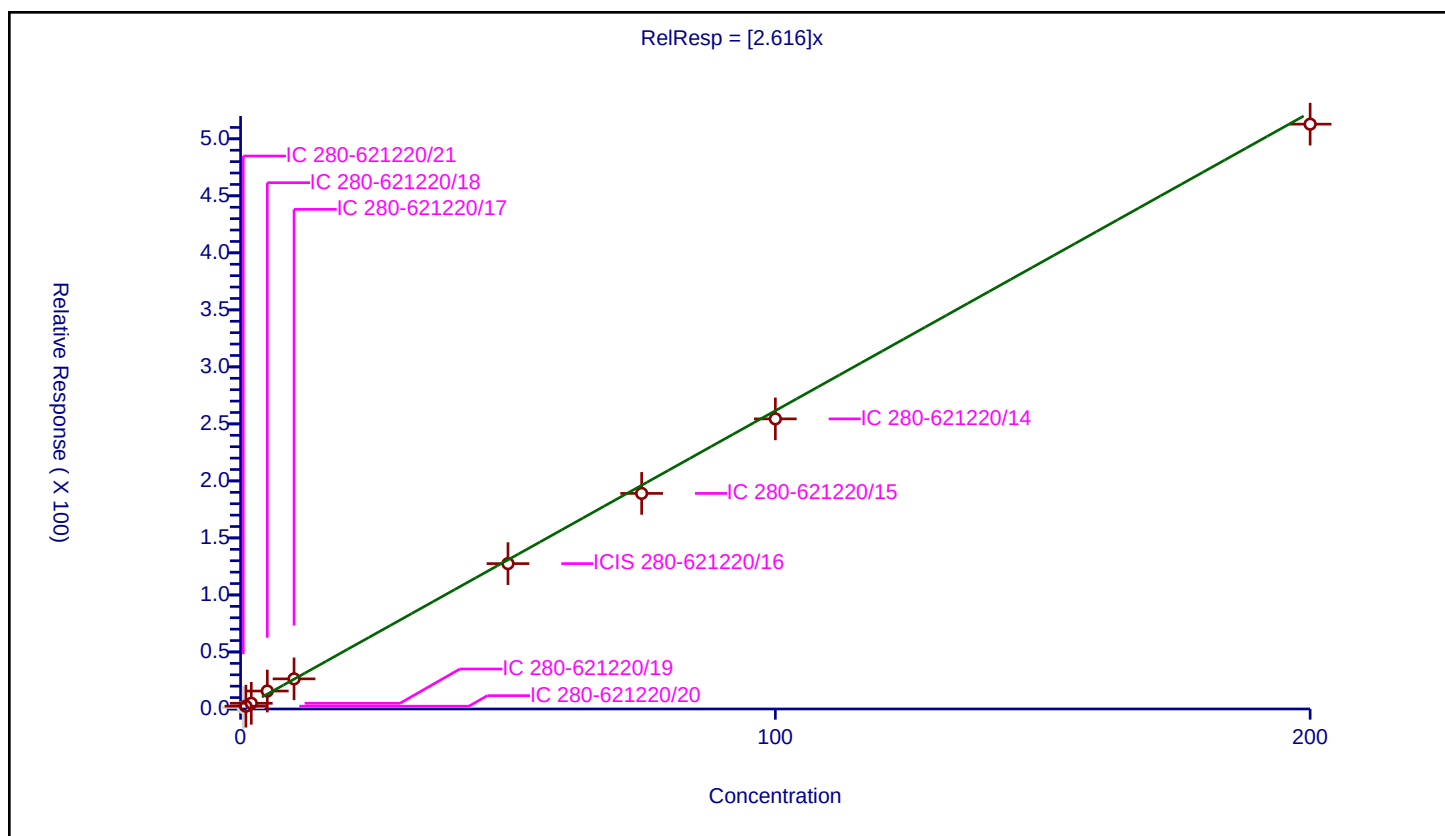
Curve Coefficients

Intercept: 0
 Slope: 2.616

Error Coefficients

Standard Error: 2670000
 Relative Standard Error: 8.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	1.331991	50.0	492571.0	2.663981	N
2	IC 280-621220/20	1.0	2.458541	50.0	515326.0	2.458541	Y
3	IC 280-621220/19	2.0	4.991469	50.0	532739.0	2.495734	Y
4	IC 280-621220/18	5.0	15.754257	50.0	530920.0	3.150851	Y
5	IC 280-621220/17	10.0	26.418916	50.0	540571.0	2.641892	Y
6	ICIS 280-621220/16	50.0	127.48314	50.0	571323.0	2.549663	Y
7	IC 280-621220/15	75.0	189.053449	50.0	573514.0	2.520713	Y
8	IC 280-621220/14	100.0	254.426762	50.0	570801.0	2.544268	Y
9	IC 280-621220/13	200.0	512.862985	50.0	574369.0	2.564315	Y



Calibration

/ 1,1,1,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

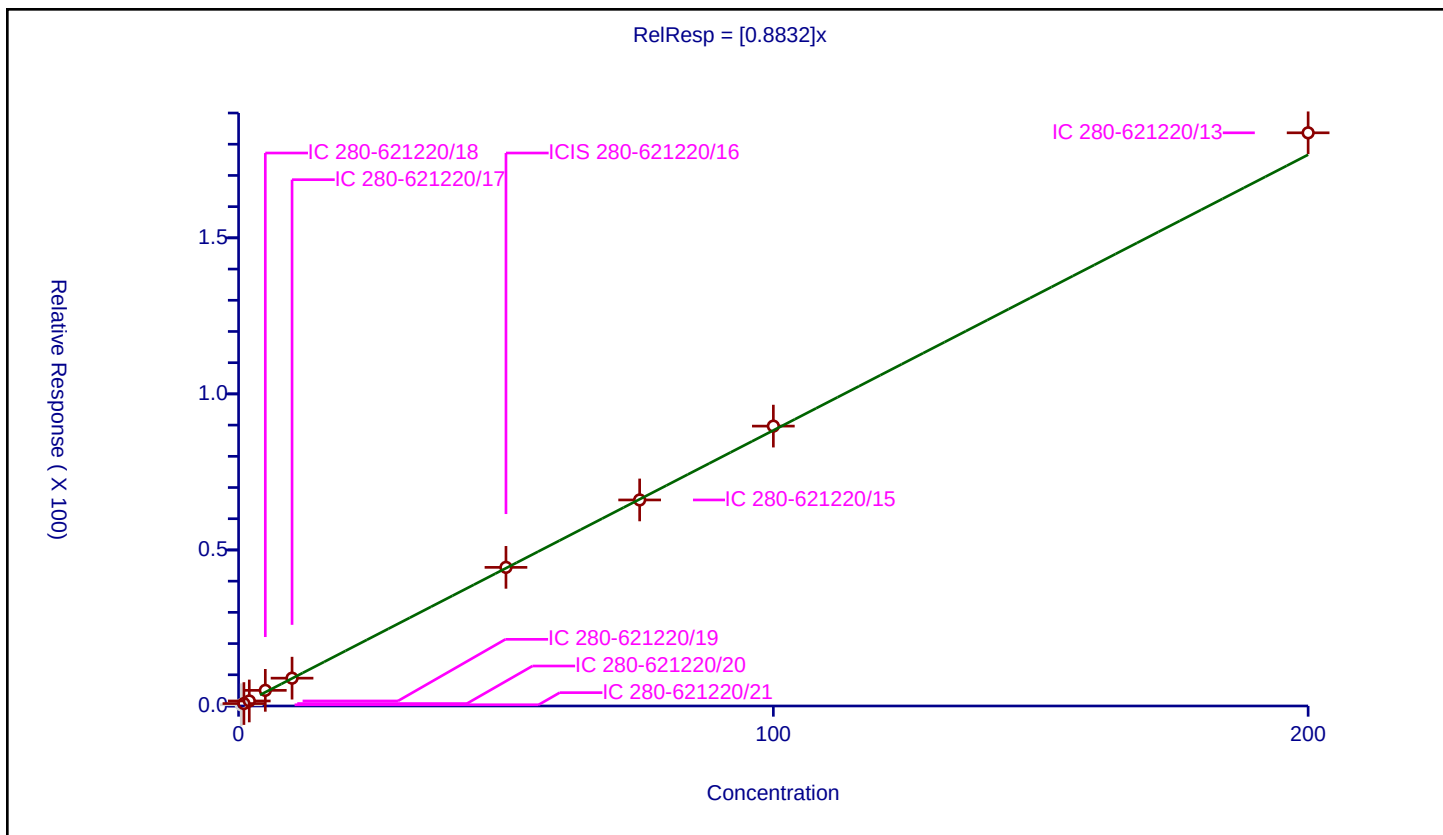
Curve Coefficients

Intercept: 0
 Slope: 0.8832

Error Coefficients

Standard Error: 952000
 Relative Standard Error: 7.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.401262	50.0	492571.0	0.802524	N
2	IC 280-621220/20	1.0	0.782126	50.0	515326.0	0.782126	Y
3	IC 280-621220/19	2.0	1.612046	50.0	532739.0	0.806023	Y
4	IC 280-621220/18	5.0	5.008382	50.0	530920.0	1.001676	Y
5	IC 280-621220/17	10.0	8.920105	50.0	540571.0	0.89201	Y
6	ICIS 280-621220/16	50.0	44.414631	50.0	571323.0	0.888293	Y
7	IC 280-621220/15	75.0	66.01661	50.0	573514.0	0.880221	Y
8	IC 280-621220/14	100.0	89.67705	50.0	570801.0	0.896771	Y
9	IC 280-621220/13	200.0	183.655629	50.0	574369.0	0.918278	Y



Calibration

/ Ethylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

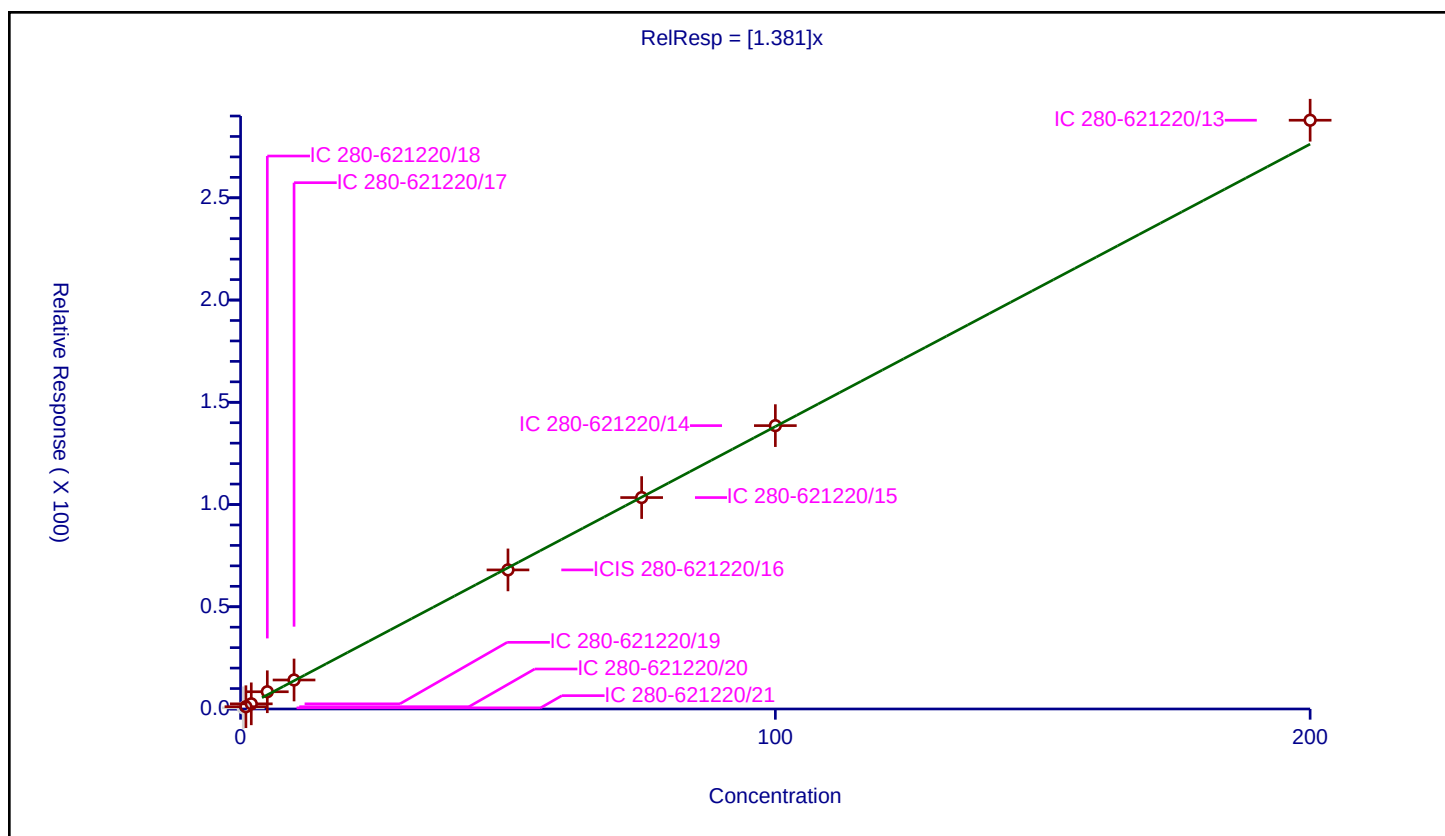
Curve Coefficients

Intercept: 0
Slope: 1.381

Error Coefficients

Standard Error: 1490000
Relative Standard Error: 11.6
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.569461	50.0	492571.0	1.138922	N
2	IC 280-621220/20	1.0	1.119291	50.0	515326.0	1.119291	Y
3	IC 280-621220/19	2.0	2.524876	50.0	532739.0	1.262438	Y
4	IC 280-621220/18	5.0	8.428294	50.0	530920.0	1.685659	Y
5	IC 280-621220/17	10.0	14.179174	50.0	540571.0	1.417917	Y
6	ICIS 280-621220/16	50.0	68.02203	50.0	571323.0	1.360441	Y
7	IC 280-621220/15	75.0	103.405497	50.0	573514.0	1.37874	Y
8	IC 280-621220/14	100.0	138.584288	50.0	570801.0	1.385843	Y
9	IC 280-621220/13	200.0	287.941202	50.0	574369.0	1.439706	Y



Calibration

/ m-Xylene & p-Xylene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

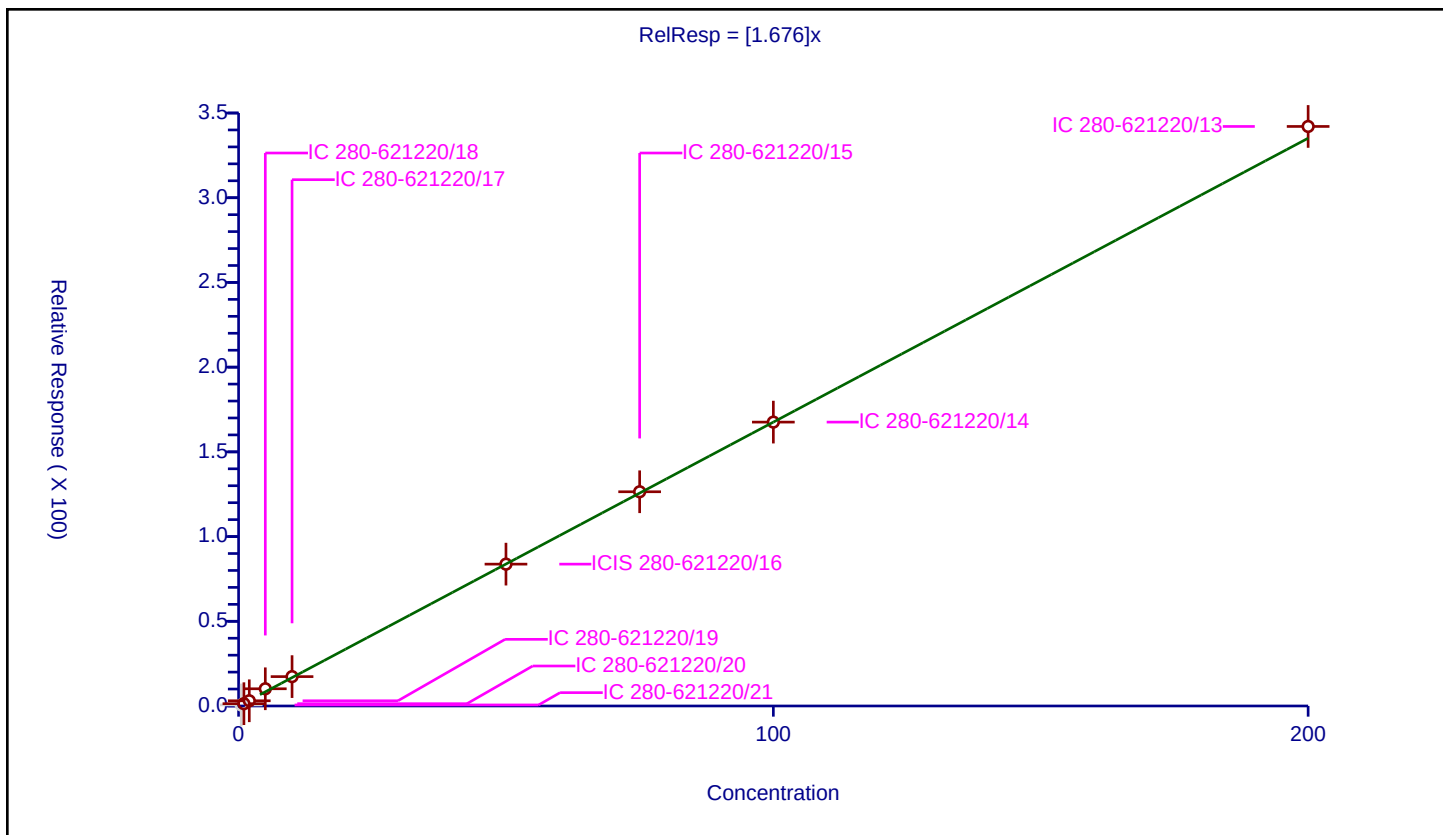
Curve Coefficients

Intercept: 0
Slope: 1.676

Error Coefficients

Standard Error: 1780000
Relative Standard Error: 11.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.617474	50.0	492571.0	1.234949	N
2	IC 280-621220/20	1.0	1.355356	50.0	515326.0	1.355356	Y
3	IC 280-621220/19	2.0	3.076553	50.0	532739.0	1.538277	Y
4	IC 280-621220/18	5.0	10.154826	50.0	530920.0	2.030965	Y
5	IC 280-621220/17	10.0	17.343698	50.0	540571.0	1.73437	Y
6	ICIS 280-621220/16	50.0	83.722693	50.0	571323.0	1.674454	Y
7	IC 280-621220/15	75.0	126.4453	50.0	573514.0	1.685937	Y
8	IC 280-621220/14	100.0	167.551213	50.0	570801.0	1.675512	Y
9	IC 280-621220/13	200.0	342.067643	50.0	574369.0	1.710338	Y



Calibration

/ o-Xylene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

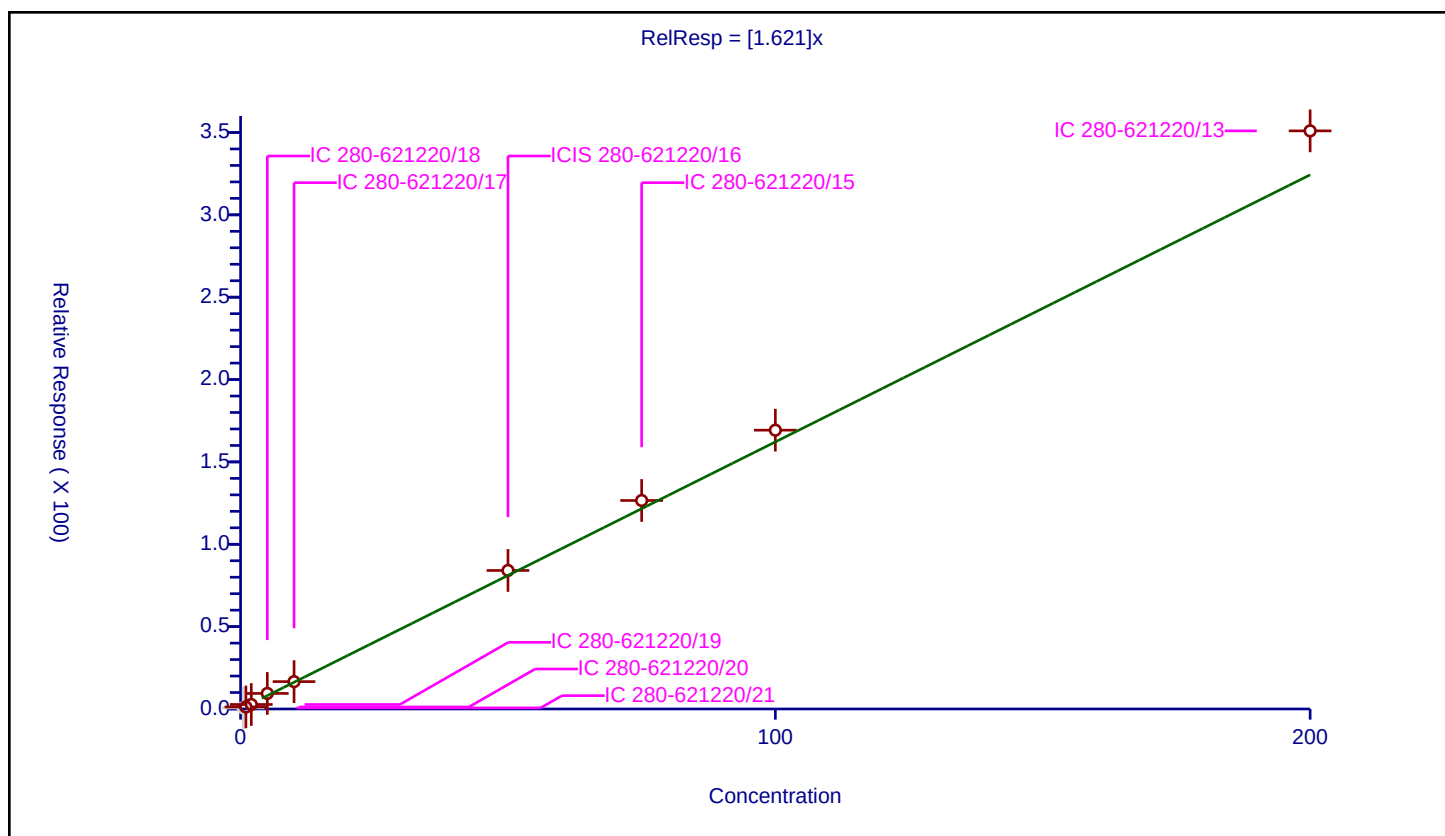
Curve Coefficients

Intercept: 0
 Slope: 1.621

Error Coefficients

Standard Error: 1820000
 Relative Standard Error: 13.1
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.674522	50.0	492571.0	1.349044	N
2	IC 280-621220/20	1.0	1.236208	50.0	515326.0	1.236208	Y
3	IC 280-621220/19	2.0	2.734172	50.0	532739.0	1.367086	Y
4	IC 280-621220/18	5.0	9.451236	50.0	530920.0	1.890247	Y
5	IC 280-621220/17	10.0	16.610399	50.0	540571.0	1.66104	Y
6	ICIS 280-621220/16	50.0	84.090348	50.0	571323.0	1.681807	Y
7	IC 280-621220/15	75.0	126.57895	50.0	573514.0	1.687719	Y
8	IC 280-621220/14	100.0	169.270201	50.0	570801.0	1.692702	Y
9	IC 280-621220/13	200.0	350.984646	50.0	574369.0	1.754923	Y



Calibration

/ Styrene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

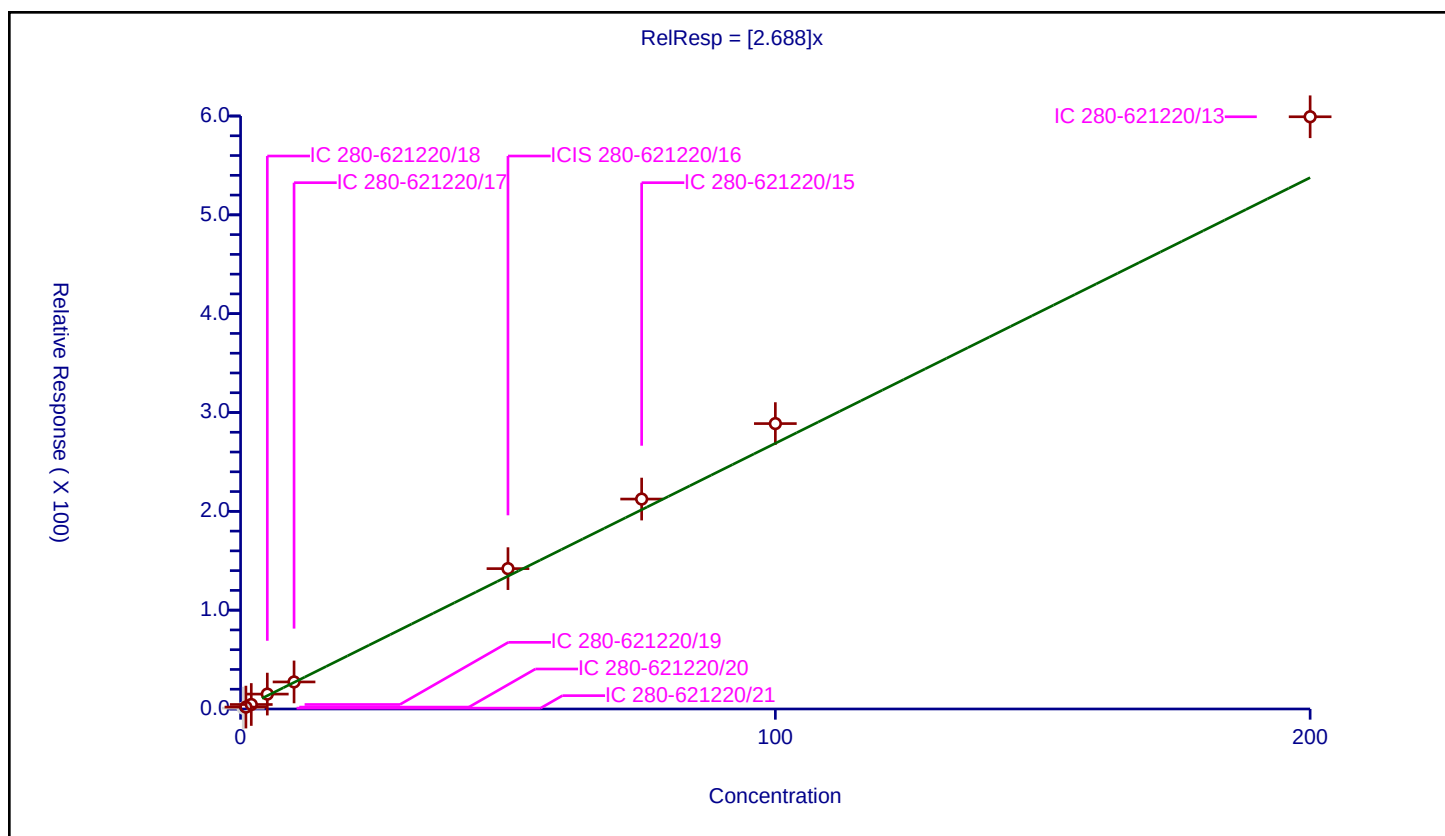
Curve Coefficients

Intercept: 0
Slope: 2.688

Error Coefficients

Standard Error: 3090000
Relative Standard Error: 14.4
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.874798	50.0	492571.0	1.749595	N
2	IC 280-621220/20	1.0	1.920144	50.0	515326.0	1.920144	Y
3	IC 280-621220/19	2.0	4.549883	50.0	532739.0	2.274941	Y
4	IC 280-621220/18	5.0	15.079296	50.0	530920.0	3.015859	Y
5	IC 280-621220/17	10.0	27.375682	50.0	540571.0	2.737568	Y
6	ICIS 280-621220/16	50.0	142.035241	50.0	571323.0	2.840705	Y
7	IC 280-621220/15	75.0	212.411816	50.0	573514.0	2.832158	Y
8	IC 280-621220/14	100.0	288.778488	50.0	570801.0	2.887785	Y
9	IC 280-621220/13	200.0	599.232201	50.0	574369.0	2.996161	Y



Calibration

/ Bromoform

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

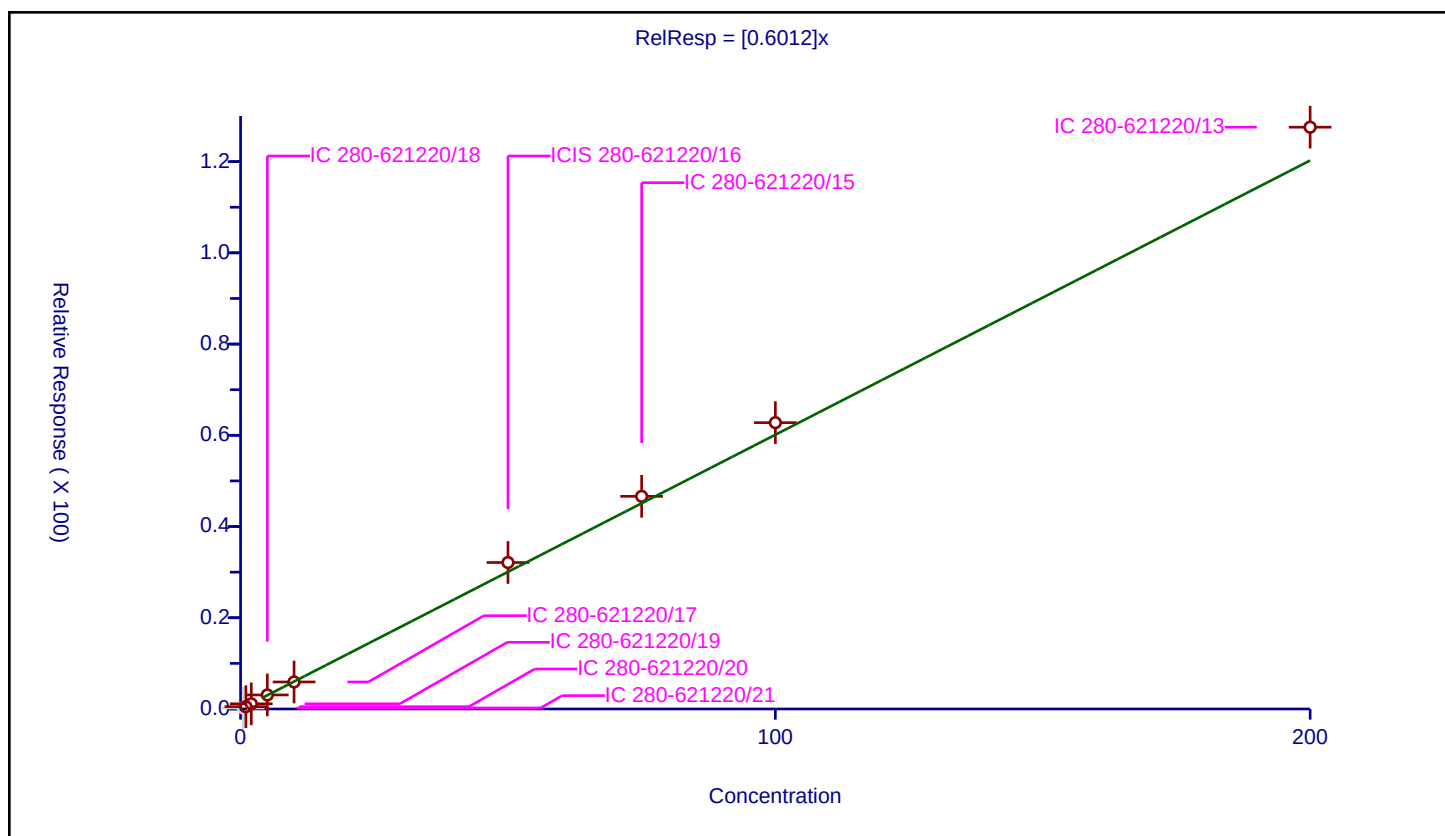
Curve Coefficients

Intercept: 0
Slope: 0.6012

Error Coefficients

Standard Error: 664000
Relative Standard Error: 7.7
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.224638	50.0	492571.0	0.449275	N
2	IC 280-621220/20	1.0	0.504438	50.0	515326.0	0.504438	Y
3	IC 280-621220/19	2.0	1.135453	50.0	532739.0	0.567726	Y
4	IC 280-621220/18	5.0	3.080784	50.0	530920.0	0.616157	Y
5	IC 280-621220/17	10.0	5.922719	50.0	540571.0	0.592272	Y
6	ICIS 280-621220/16	50.0	32.11292	50.0	571323.0	0.642258	Y
7	IC 280-621220/15	75.0	46.623099	50.0	573514.0	0.621641	Y
8	IC 280-621220/14	100.0	62.772227	50.0	570801.0	0.627722	Y
9	IC 280-621220/13	200.0	127.552671	50.0	574369.0	0.637763	Y



Calibration

/ Isopropylbenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

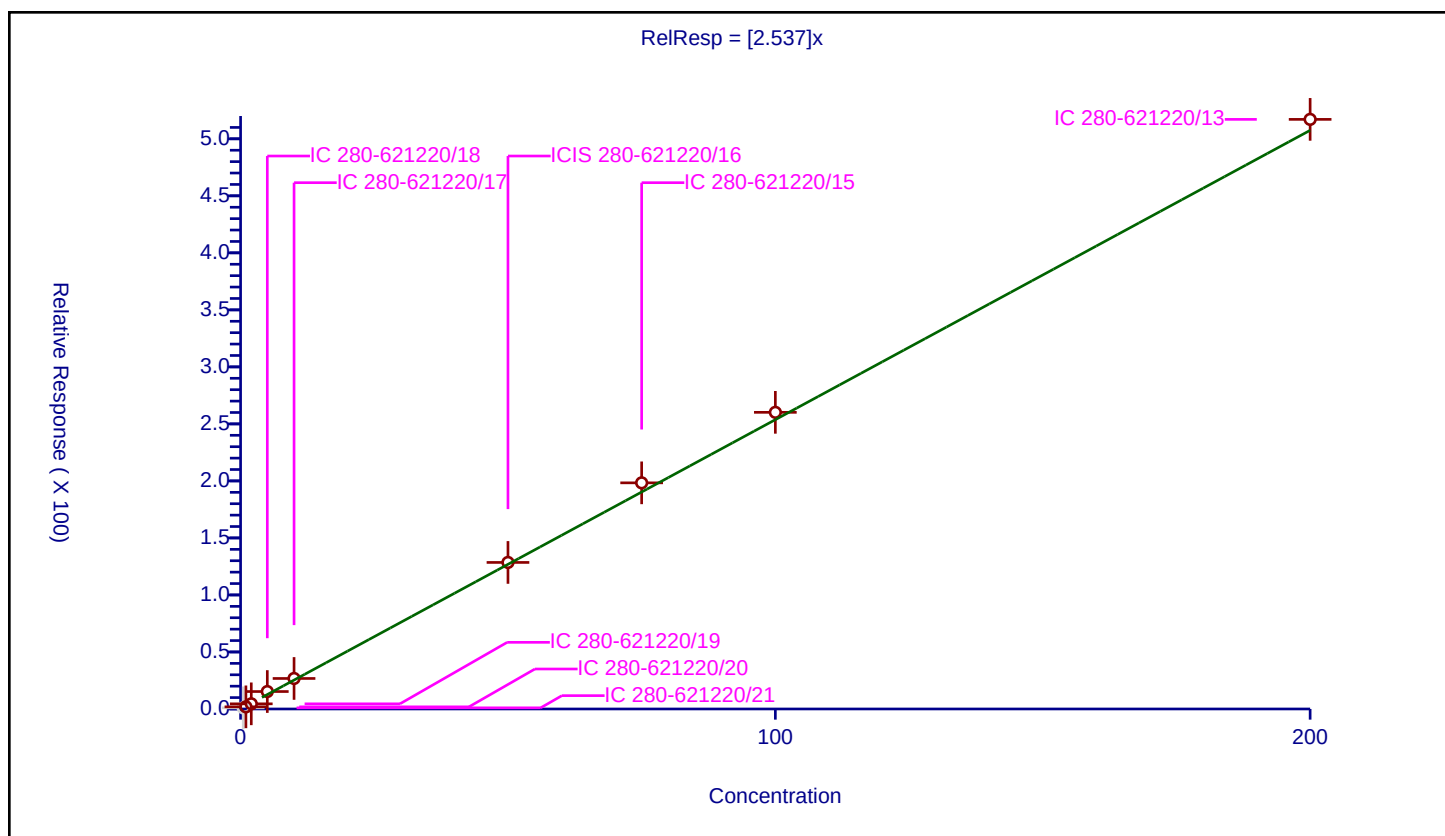
Curve Coefficients

Intercept: 0
Slope: 2.537

Error Coefficients

Standard Error: 4440000
Relative Standard Error: 13.3
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.980

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	1.006463	50.0	731522.0	2.012926	N
2	IC 280-621220/20	1.0	1.893445	50.0	789830.0	1.893445	Y
3	IC 280-621220/19	2.0	4.528636	50.0	834854.0	2.264318	Y
4	IC 280-621220/18	5.0	15.303837	50.0	841338.0	3.060767	Y
5	IC 280-621220/17	10.0	26.774603	50.0	852261.0	2.67746	Y
6	ICIS 280-621220/16	50.0	128.523293	50.0	917352.0	2.570466	Y
7	IC 280-621220/15	75.0	198.327356	50.0	902314.0	2.644365	Y
8	IC 280-621220/14	100.0	260.143176	50.0	909439.0	2.601432	Y
9	IC 280-621220/13	200.0	517.042401	50.0	951559.0	2.585212	Y



Calibration

/ Cyclohexanone

Curve Type: Linear
Weighting: Conc_Sq
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

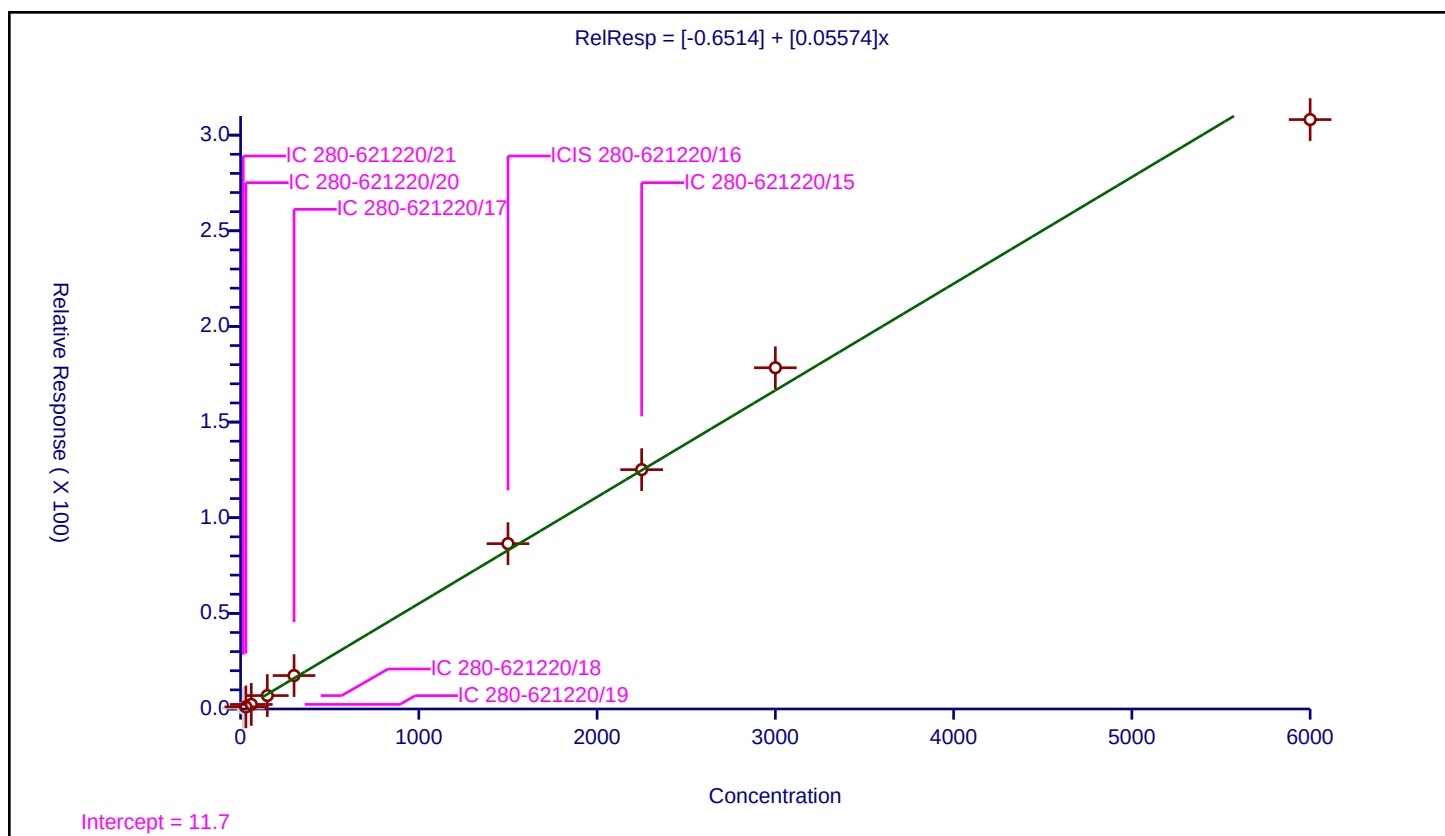
Curve Coefficients

Intercept: -0.6514
Slope: 0.05574

Error Coefficients

Standard Error: 1810000
Relative Standard Error: 7.9
Correlation Coefficient: 0.995
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	15.0	0.511297	50.0	492571.0	0.034086	N
2	IC 280-621220/20	30.0	1.10891	50.0	515326.0	0.036964	Y
3	IC 280-621220/19	60.0	2.38935	50.0	532739.0	0.039823	Y
4	IC 280-621220/18	150.0	7.010002	50.0	530920.0	0.046733	Y
5	IC 280-621220/17	300.0	17.470693	50.0	540571.0	0.058236	Y
6	ICIS 280-621220/16	1500.0	86.443658	50.0	571323.0	0.057629	Y
7	IC 280-621220/15	2250.0	125.134609	50.0	573514.0	0.055615	Y
8	IC 280-621220/14	3000.0	178.392908	50.0	570801.0	0.059464	Y
9	IC 280-621220/13	6000.0	308.12953	50.0	574369.0	0.051355	Y



Calibration

/ 4-Bromofluorobenzene (Surr)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

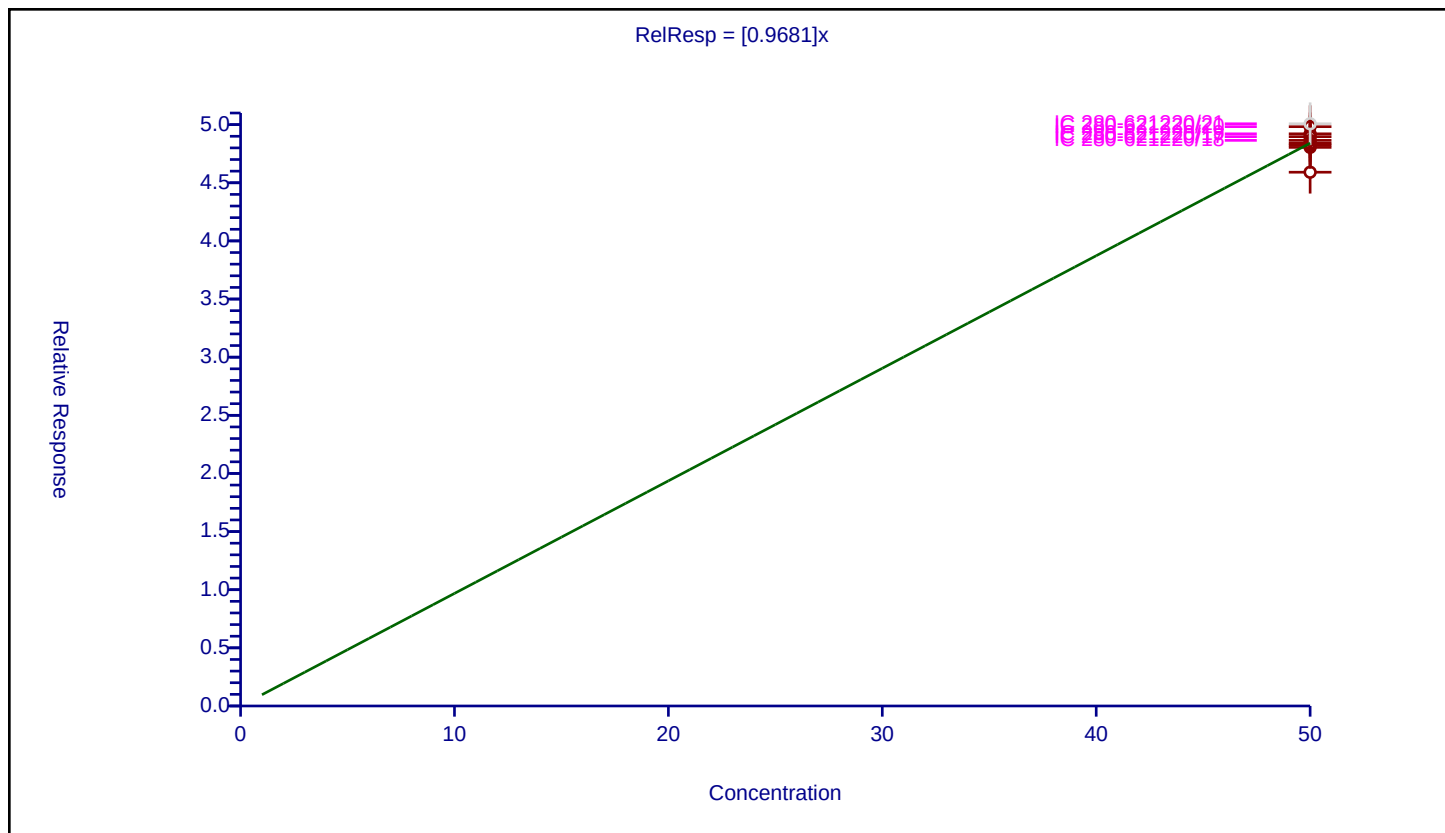
Curve Coefficients

Intercept: 0
 Slope: 0.9681

Error Coefficients

Standard Error: 905000
 Relative Standard Error: 2.4
 Correlation Coefficient: 0
 Coefficient of Determination (Adjusted): 0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/13	50.0	45.908556	50.0	951559.0	0.918171	Y
2	IC 280-621220/14	50.0	48.245897	50.0	909439.0	0.964918	Y
3	IC 280-621220/15	50.0	48.398894	50.0	902314.0	0.967978	Y
4	ICIS 280-621220/16	50.0	48.044426	50.0	917352.0	0.960889	Y
5	IC 280-621220/17	50.0	48.966455	50.0	852261.0	0.979329	Y
6	IC 280-621220/18	50.0	48.646085	50.0	841338.0	0.972922	Y
7	IC 280-621220/19	50.0	49.211778	50.0	834854.0	0.984236	Y
8	IC 280-621220/20	50.0	49.825405	50.0	789830.0	0.996508	Y
9	IC 280-621220/21	50.0	50.076484	50.0	731522.0	1.00153	N



Calibration

/ 1,1,2,2-Tetrachloroethane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

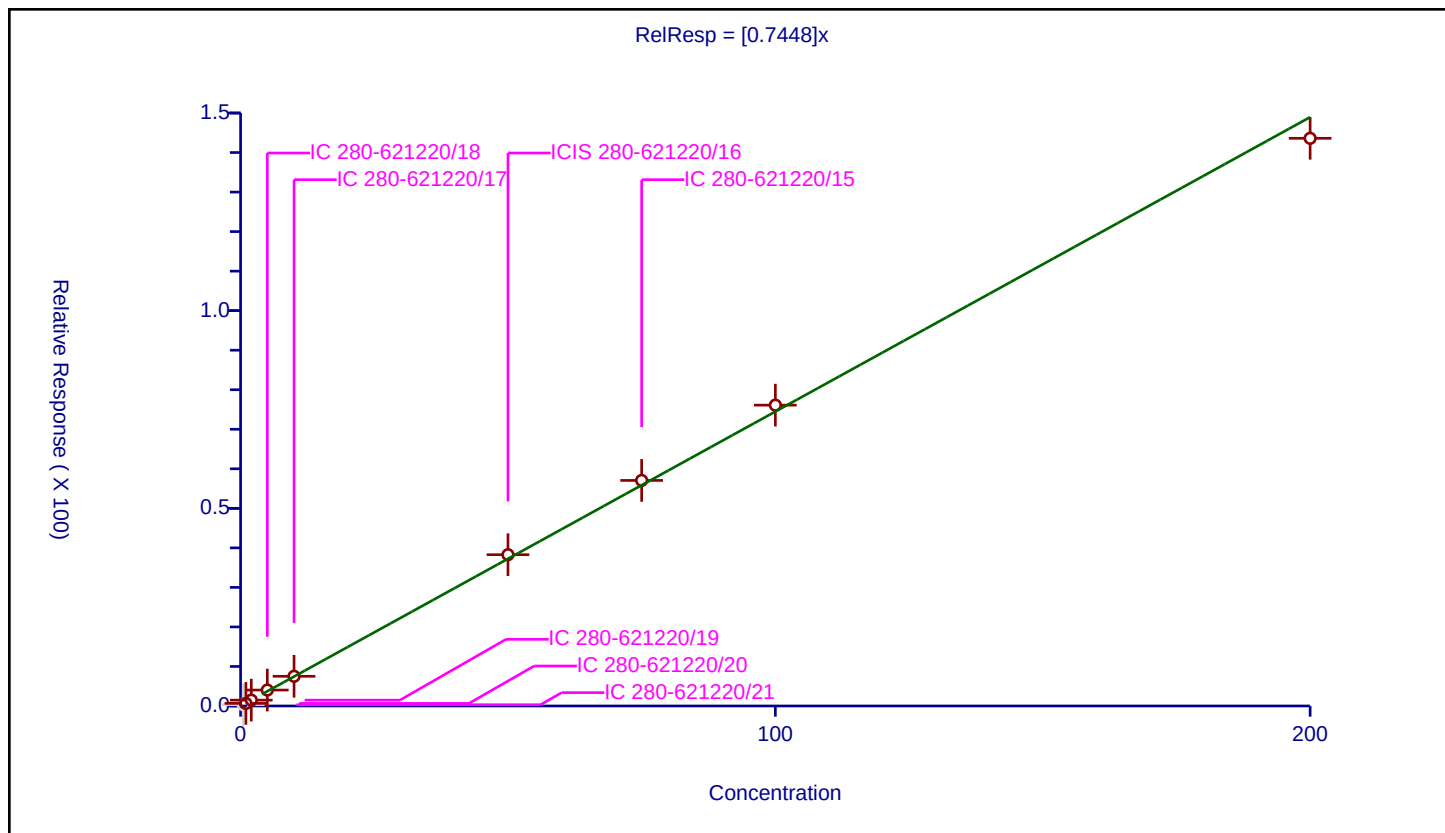
Curve Coefficients

Intercept: 0
 Slope: 0.7448

Error Coefficients

Standard Error: 1250000
 Relative Standard Error: 5.9
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.325691	50.0	731522.0	0.651382	N
2	IC 280-621220/20	1.0	0.655711	50.0	789830.0	0.655711	Y
3	IC 280-621220/19	2.0	1.481457	50.0	834854.0	0.740728	Y
4	IC 280-621220/18	5.0	4.027513	50.0	841338.0	0.805503	Y
5	IC 280-621220/17	10.0	7.508263	50.0	852261.0	0.750826	Y
6	ICIS 280-621220/16	50.0	38.274185	50.0	917352.0	0.765484	Y
7	IC 280-621220/15	75.0	57.060125	50.0	902314.0	0.760802	Y
8	IC 280-621220/14	100.0	76.098507	50.0	909439.0	0.760985	Y
9	IC 280-621220/13	200.0	143.605862	50.0	951559.0	0.718029	Y



Calibration

/ Bromobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

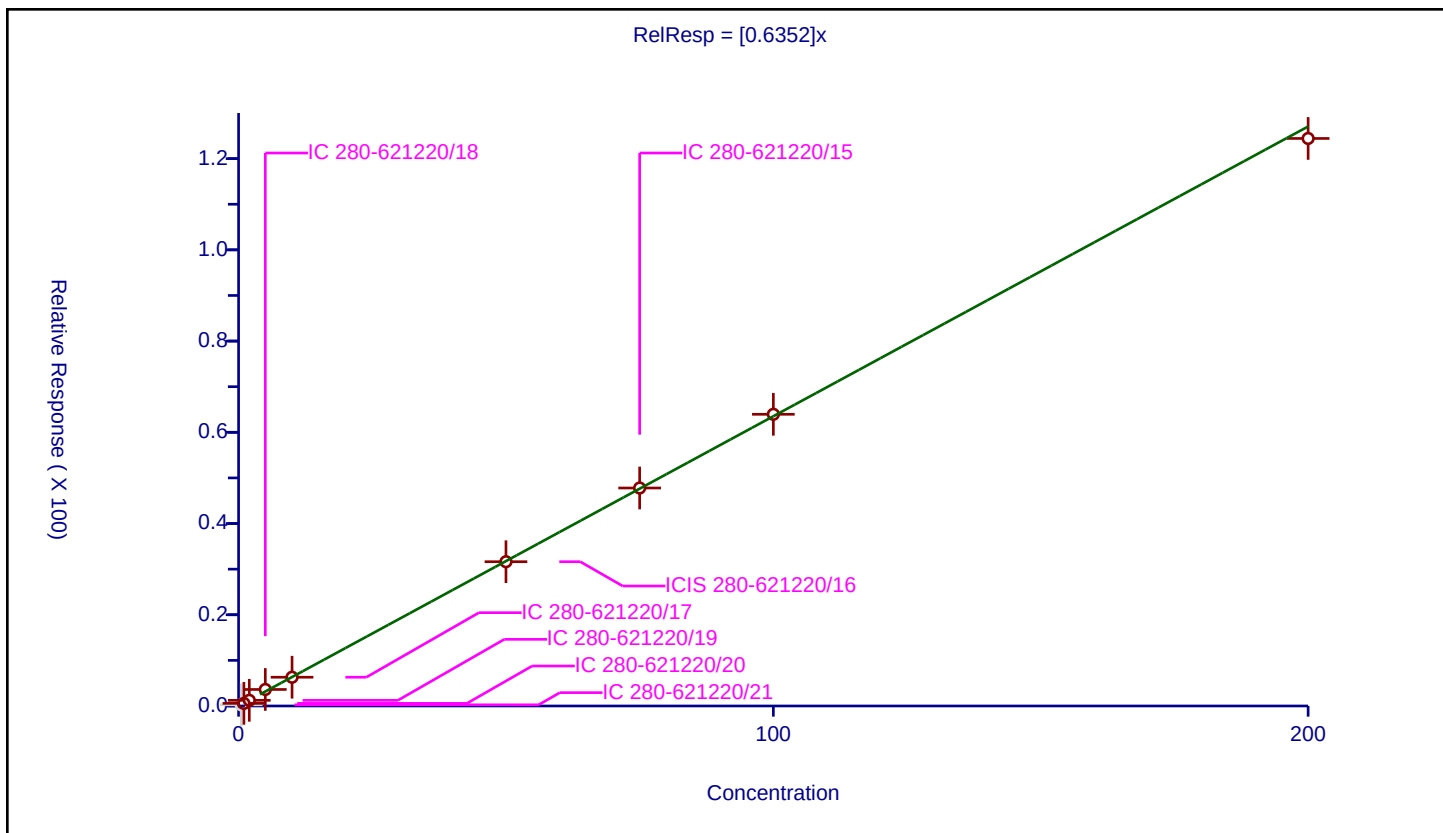
Curve Coefficients

Intercept: 0
 Slope: 0.6352

Error Coefficients

Standard Error: 1070000
 Relative Standard Error: 6.5
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.260074	50.0	731522.0	0.520148	N
2	IC 280-621220/20	1.0	0.575377	50.0	789830.0	0.575377	Y
3	IC 280-621220/19	2.0	1.241475	50.0	834854.0	0.620737	Y
4	IC 280-621220/18	5.0	3.619948	50.0	841338.0	0.72399	Y
5	IC 280-621220/17	10.0	6.302529	50.0	852261.0	0.630253	Y
6	ICIS 280-621220/16	50.0	31.631315	50.0	917352.0	0.632626	Y
7	IC 280-621220/15	75.0	47.788963	50.0	902314.0	0.637186	Y
8	IC 280-621220/14	100.0	63.94673	50.0	909439.0	0.639467	Y
9	IC 280-621220/13	200.0	124.421292	50.0	951559.0	0.622106	Y



Calibration

/ trans-1,4-Dichloro-2-butene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

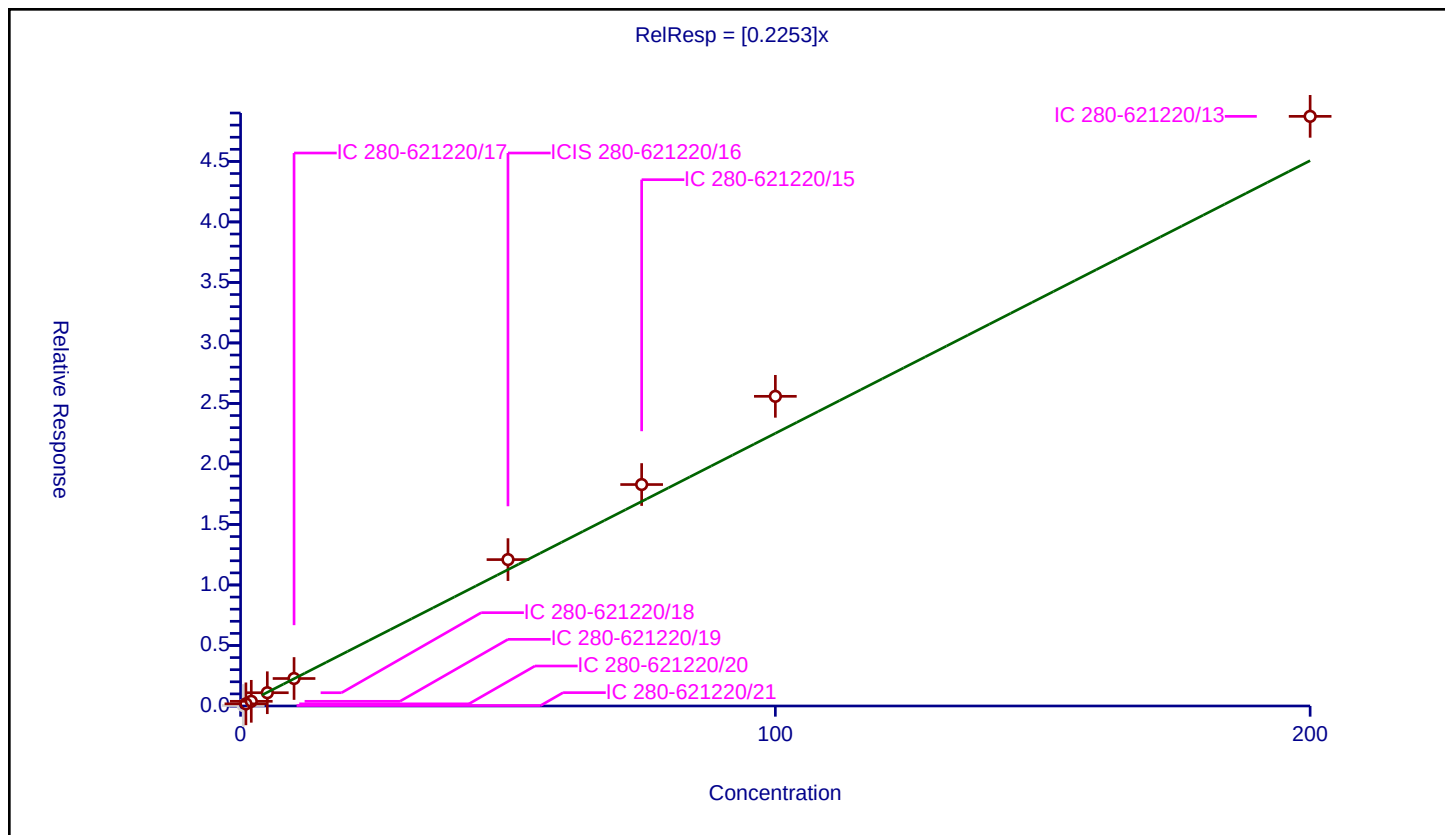
Curve Coefficients

Intercept: 0
Slope: 0.2253

Error Coefficients

Standard Error: 420000
Relative Standard Error: 12.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.039028	50.0	731522.0	0.078056	N
2	IC 280-621220/20	1.0	0.177696	50.0	789830.0	0.177696	Y
3	IC 280-621220/19	2.0	0.385756	50.0	834854.0	0.192878	Y
4	IC 280-621220/18	5.0	1.096943	50.0	841338.0	0.219389	Y
5	IC 280-621220/17	10.0	2.271194	50.0	852261.0	0.227119	Y
6	ICIS 280-621220/16	50.0	12.097428	50.0	917352.0	0.241949	Y
7	IC 280-621220/15	75.0	18.299893	50.0	902314.0	0.243999	Y
8	IC 280-621220/14	100.0	25.589017	50.0	909439.0	0.25589	Y
9	IC 280-621220/13	200.0	48.723779	50.0	951559.0	0.243619	Y



Calibration

/ 1,2,3-Trichloropropane

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

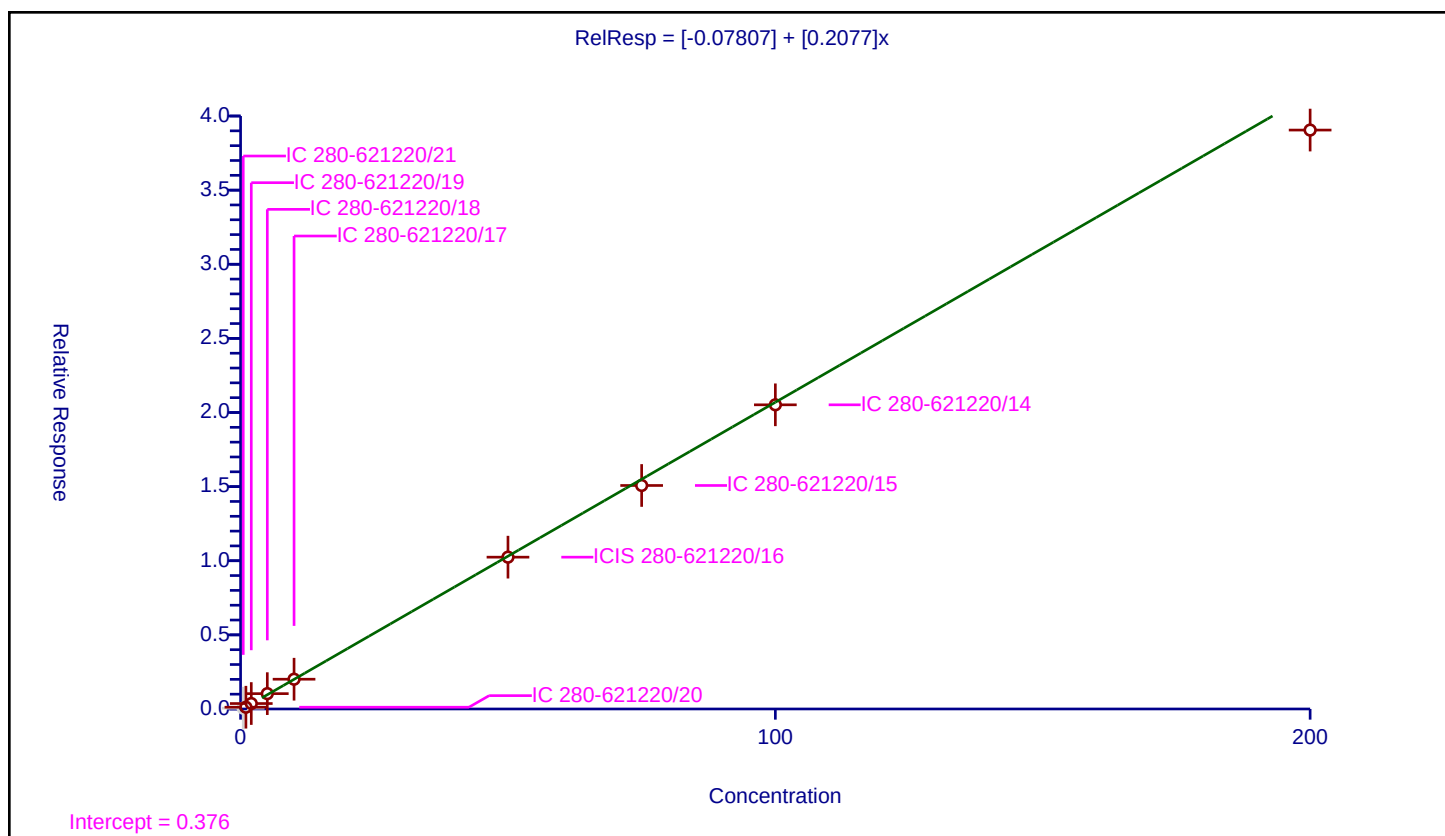
Curve Coefficients

Intercept: -0.07807
 Slope: 0.2077

Error Coefficients

Standard Error: 366000
 Relative Standard Error: 5.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.055159	50.0	731522.0	0.110318	N
2	IC 280-621220/20	1.0	0.119076	50.0	789830.0	0.119076	Y
3	IC 280-621220/19	2.0	0.367789	50.0	834854.0	0.183894	Y
4	IC 280-621220/18	5.0	1.035375	50.0	841338.0	0.207075	Y
5	IC 280-621220/17	10.0	2.008188	50.0	852261.0	0.200819	Y
6	ICIS 280-621220/16	50.0	10.242524	50.0	917352.0	0.20485	Y
7	IC 280-621220/15	75.0	15.077456	50.0	902314.0	0.201033	Y
8	IC 280-621220/14	100.0	20.517979	50.0	909439.0	0.20518	Y
9	IC 280-621220/13	200.0	39.052649	50.0	951559.0	0.195263	Y



Calibration

/ N-Propylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

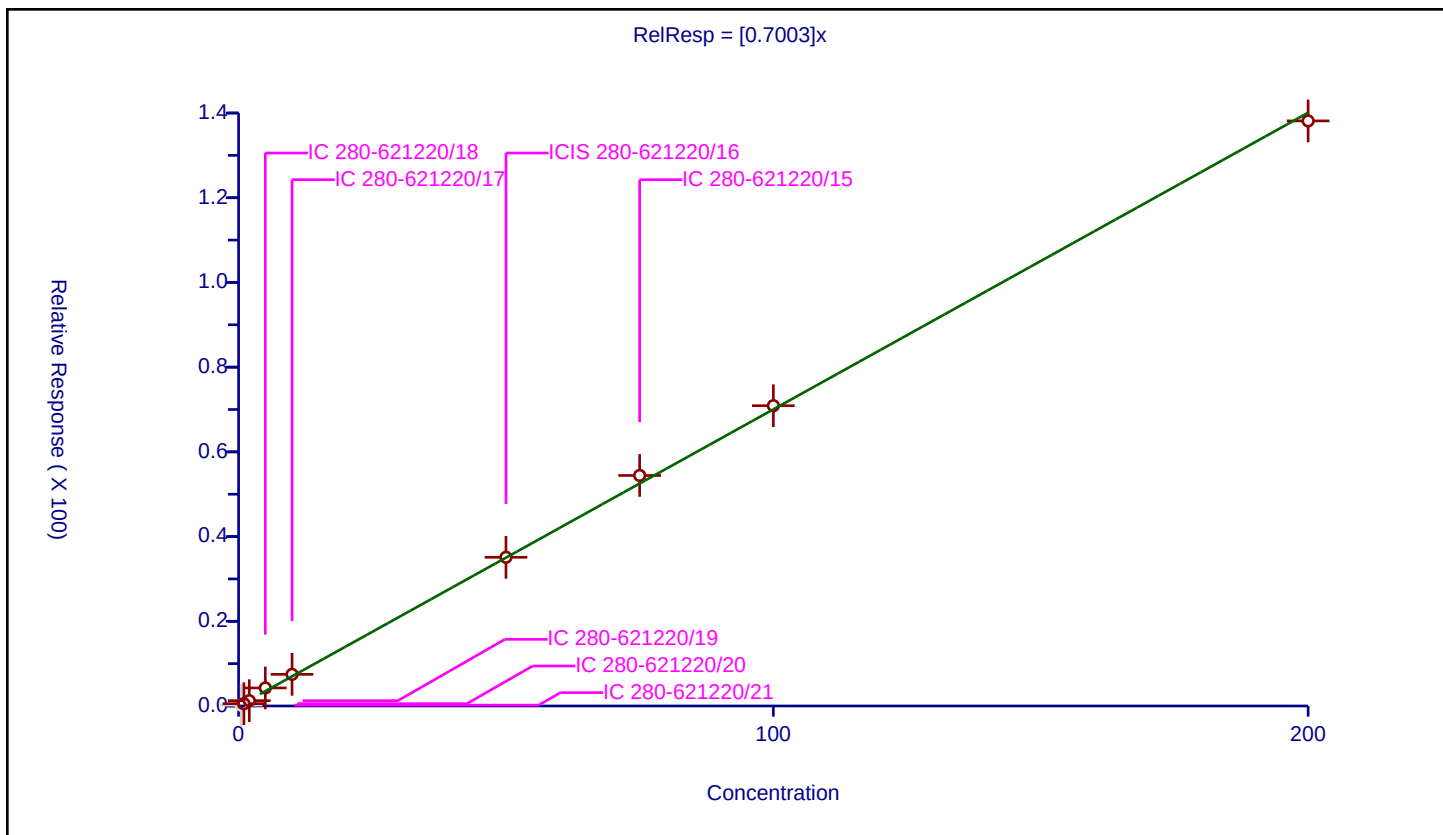
Curve Coefficients

Intercept: 0
 Slope: 0.7003

Error Coefficients

Standard Error: 1190000
 Relative Standard Error: 12.6
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.197192	50.0	731522.0	0.394383	N
2	IC 280-621220/20	1.0	0.548536	50.0	789830.0	0.548536	Y
3	IC 280-621220/19	2.0	1.255669	50.0	834854.0	0.627834	Y
4	IC 280-621220/18	5.0	4.258455	50.0	841338.0	0.851691	Y
5	IC 280-621220/17	10.0	7.472417	50.0	852261.0	0.747242	Y
6	ICIS 280-621220/16	50.0	35.108116	50.0	917352.0	0.702162	Y
7	IC 280-621220/15	75.0	54.425677	50.0	902314.0	0.725676	Y
8	IC 280-621220/14	100.0	70.897553	50.0	909439.0	0.708976	Y
9	IC 280-621220/13	200.0	138.13484	50.0	951559.0	0.690674	Y



Calibration

/ 2-Chlorotoluene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

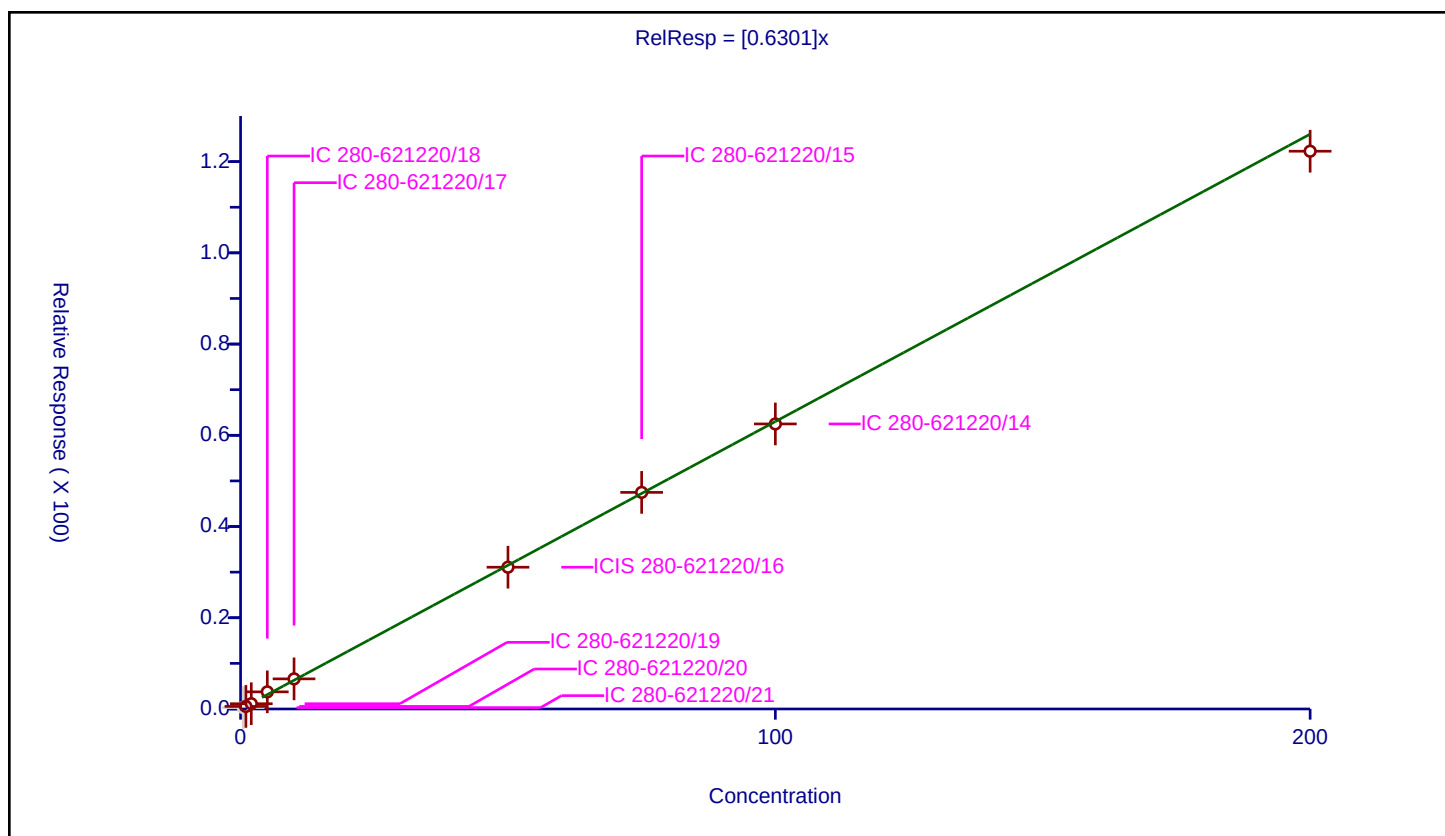
Curve Coefficients

Intercept: 0
Slope: 0.6301

Error Coefficients

Standard Error: 1050000
Relative Standard Error: 9.2
Correlation Coefficient: 1.000
Coefficient of Determination (Adjusted): 0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.300948	50.0	731522.0	0.601896	N
2	IC 280-621220/20	1.0	0.562843	50.0	789830.0	0.562843	Y
3	IC 280-621220/19	2.0	1.152118	50.0	834854.0	0.576059	Y
4	IC 280-621220/18	5.0	3.753367	50.0	841338.0	0.750673	Y
5	IC 280-621220/17	10.0	6.601968	50.0	852261.0	0.660197	Y
6	ICIS 280-621220/16	50.0	31.083052	50.0	917352.0	0.621661	Y
7	IC 280-621220/15	75.0	47.488956	50.0	902314.0	0.633186	Y
8	IC 280-621220/14	100.0	62.491107	50.0	909439.0	0.624911	Y
9	IC 280-621220/13	200.0	122.2838	50.0	951559.0	0.611419	Y



Calibration

/ 1,3,5-Trimethylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

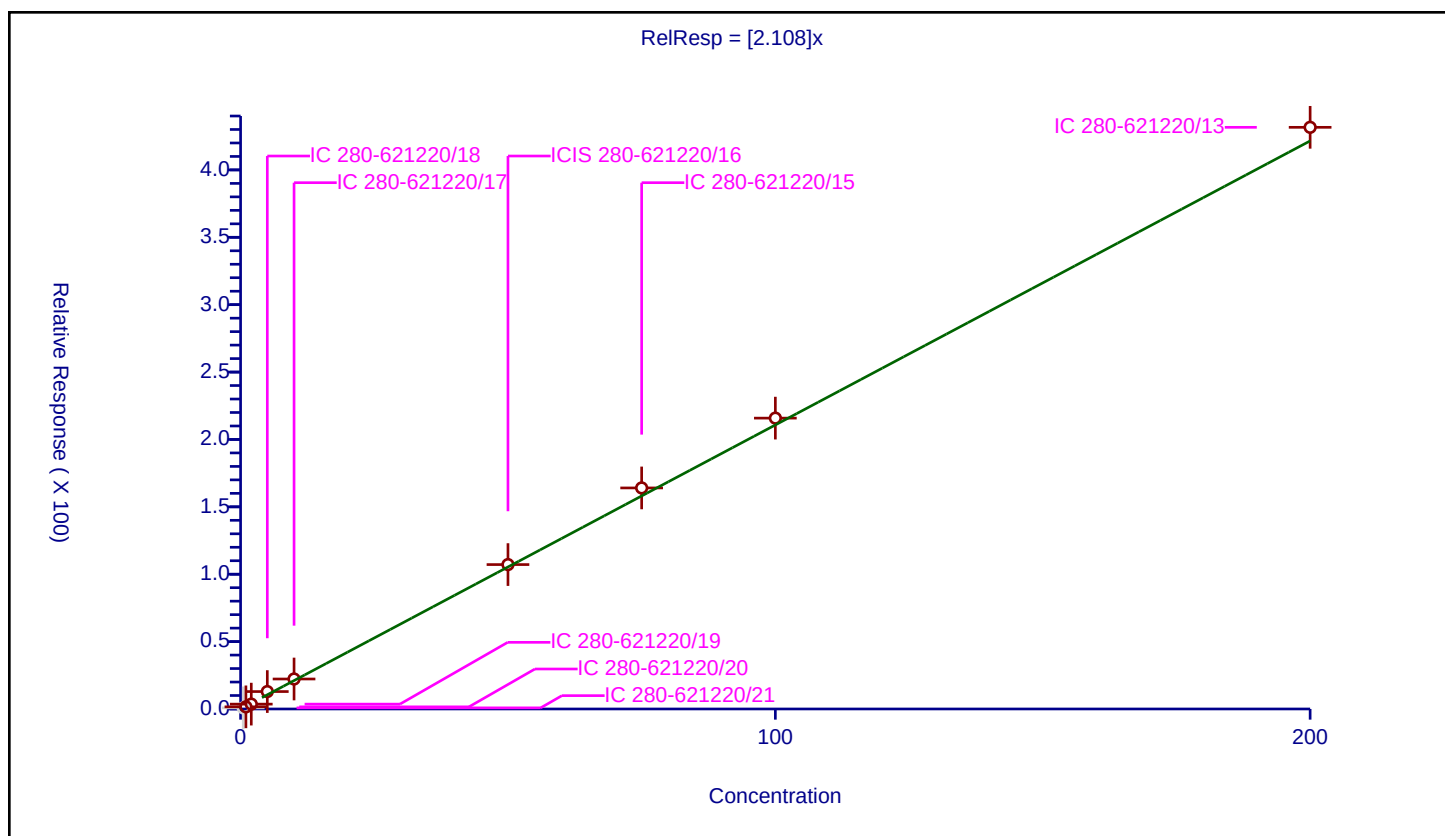
Curve Coefficients

Intercept: 0
 Slope: 2.108

Error Coefficients

Standard Error: 3700000
 Relative Standard Error: 14.0
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.842148	50.0	731522.0	1.684297	N
2	IC 280-621220/20	1.0	1.598255	50.0	789830.0	1.598255	Y
3	IC 280-621220/19	2.0	3.60596	50.0	834854.0	1.80298	Y
4	IC 280-621220/18	5.0	12.937309	50.0	841338.0	2.587462	Y
5	IC 280-621220/17	10.0	22.256269	50.0	852261.0	2.225627	Y
6	ICIS 280-621220/16	50.0	107.15407	50.0	917352.0	2.143081	Y
7	IC 280-621220/15	75.0	164.03558	50.0	902314.0	2.187141	Y
8	IC 280-621220/14	100.0	215.837401	50.0	909439.0	2.158374	Y
9	IC 280-621220/13	200.0	431.617798	50.0	951559.0	2.158089	Y



Calibration

/ 4-Chlorotoluene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

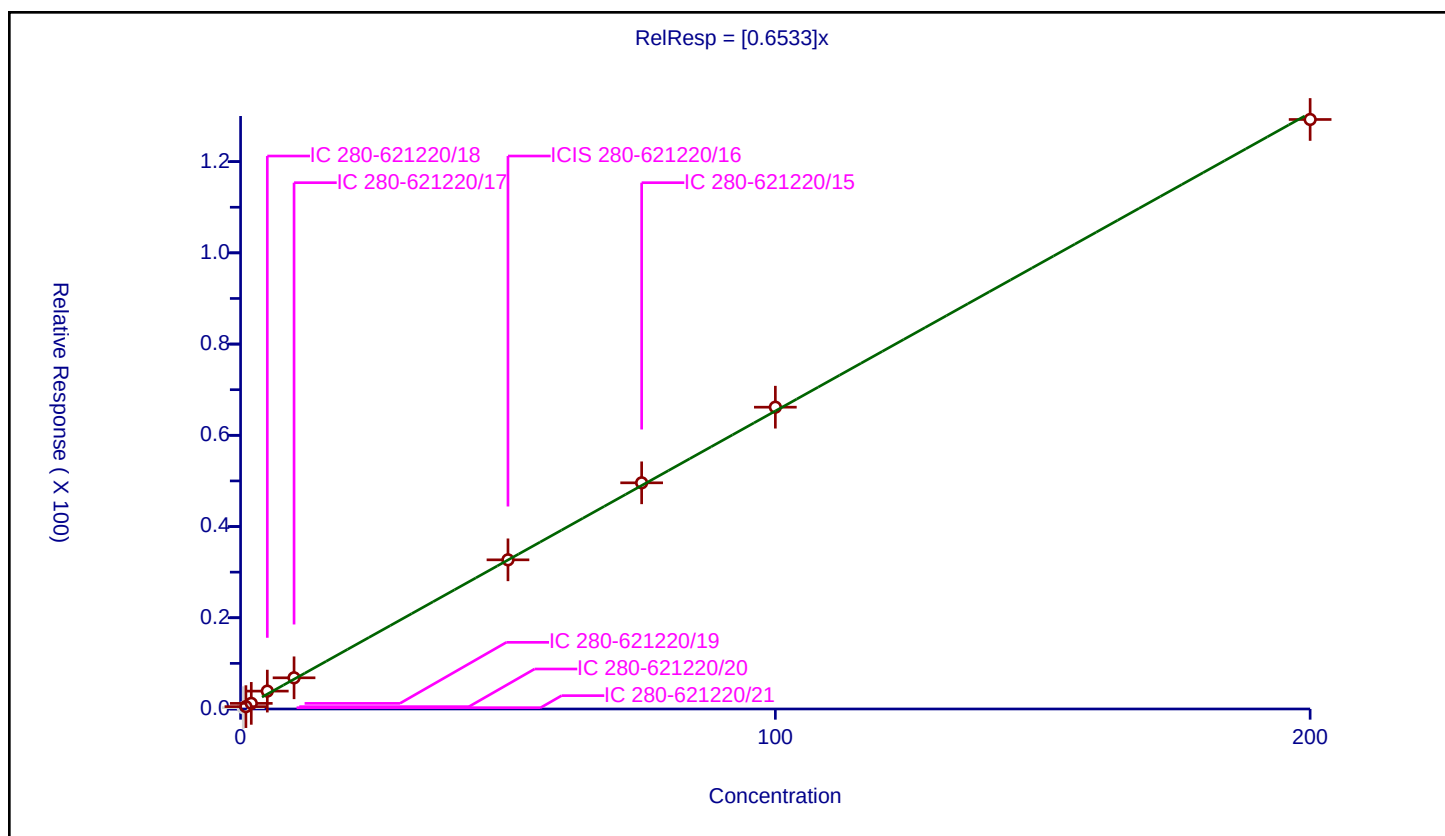
Curve Coefficients

Intercept: 0
 Slope: 0.6533

Error Coefficients

Standard Error: 1110000
 Relative Standard Error: 11.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.290148	50.0	731522.0	0.580297	N
2	IC 280-621220/20	1.0	0.519669	50.0	789830.0	0.519669	Y
3	IC 280-621220/19	2.0	1.232072	50.0	834854.0	0.616036	Y
4	IC 280-621220/18	5.0	3.91852	50.0	841338.0	0.783704	Y
5	IC 280-621220/17	10.0	6.838281	50.0	852261.0	0.683828	Y
6	ICIS 280-621220/16	50.0	32.699771	50.0	917352.0	0.653995	Y
7	IC 280-621220/15	75.0	49.584346	50.0	902314.0	0.661125	Y
8	IC 280-621220/14	100.0	66.166725	50.0	909439.0	0.661667	Y
9	IC 280-621220/13	200.0	129.237231	50.0	951559.0	0.646186	Y



Calibration

/ tert-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

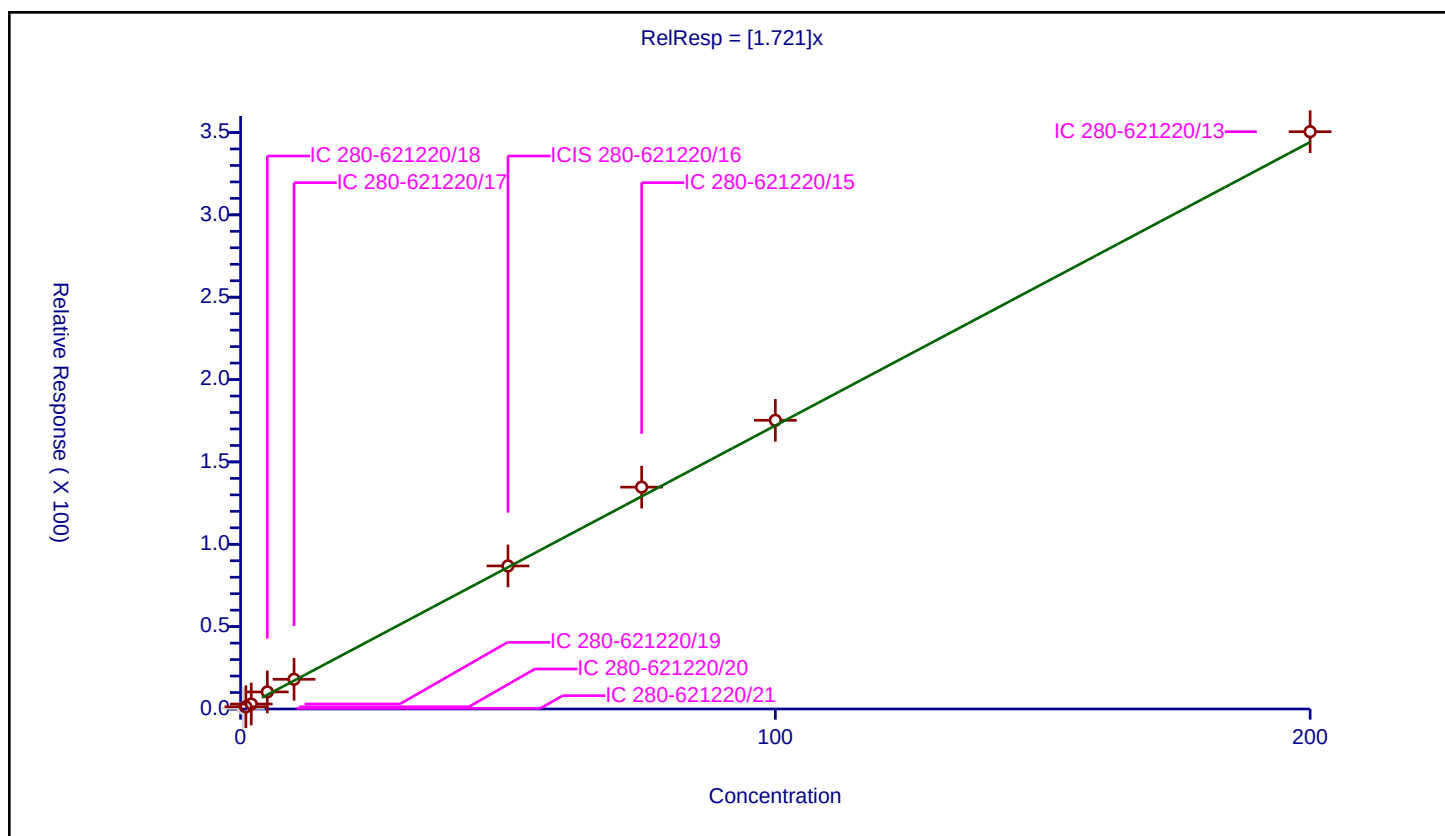
Curve Coefficients

Intercept: 0
 Slope: 1.721

Error Coefficients

Standard Error: 3010000
 Relative Standard Error: 12.4
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.42808	50.0	731522.0	0.85616	N
2	IC 280-621220/20	1.0	1.349214	50.0	789830.0	1.349214	Y
3	IC 280-621220/19	2.0	3.01418	50.0	834854.0	1.50709	Y
4	IC 280-621220/18	5.0	10.349824	50.0	841338.0	2.069965	Y
5	IC 280-621220/17	10.0	18.022824	50.0	852261.0	1.802282	Y
6	ICIS 280-621220/16	50.0	86.856299	50.0	917352.0	1.737126	Y
7	IC 280-621220/15	75.0	134.683935	50.0	902314.0	1.795786	Y
8	IC 280-621220/14	100.0	175.256284	50.0	909439.0	1.752563	Y
9	IC 280-621220/13	200.0	350.482682	50.0	951559.0	1.752413	Y



Calibration

/ 1,2,4-Trimethylbenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

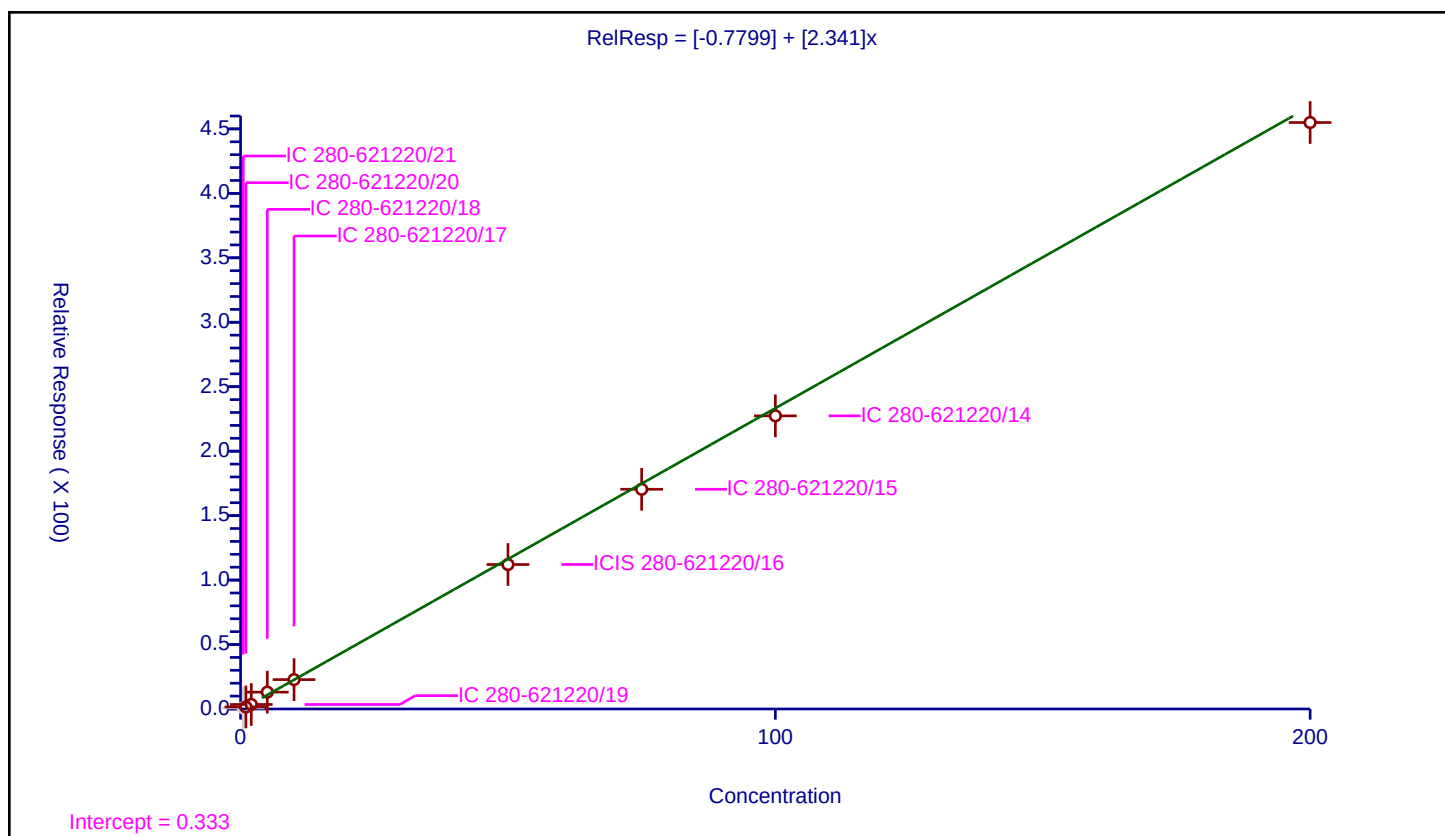
Curve Coefficients

Intercept: -0.7799
 Slope: 2.341

Error Coefficients

Standard Error: 4200000
 Relative Standard Error: 8.6
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.862585	50.0	731522.0	1.72517	N
2	IC 280-621220/20	1.0	1.574326	50.0	789830.0	1.574326	Y
3	IC 280-621220/19	2.0	3.513668	50.0	834854.0	1.756834	Y
4	IC 280-621220/18	5.0	13.072511	50.0	841338.0	2.614502	Y
5	IC 280-621220/17	10.0	22.79425	50.0	852261.0	2.279425	Y
6	ICIS 280-621220/16	50.0	112.069031	50.0	917352.0	2.241381	Y
7	IC 280-621220/15	75.0	170.456349	50.0	902314.0	2.272751	Y
8	IC 280-621220/14	100.0	227.392326	50.0	909439.0	2.273923	Y
9	IC 280-621220/13	200.0	454.957549	50.0	951559.0	2.274788	Y



Calibration

/ sec-Butylbenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

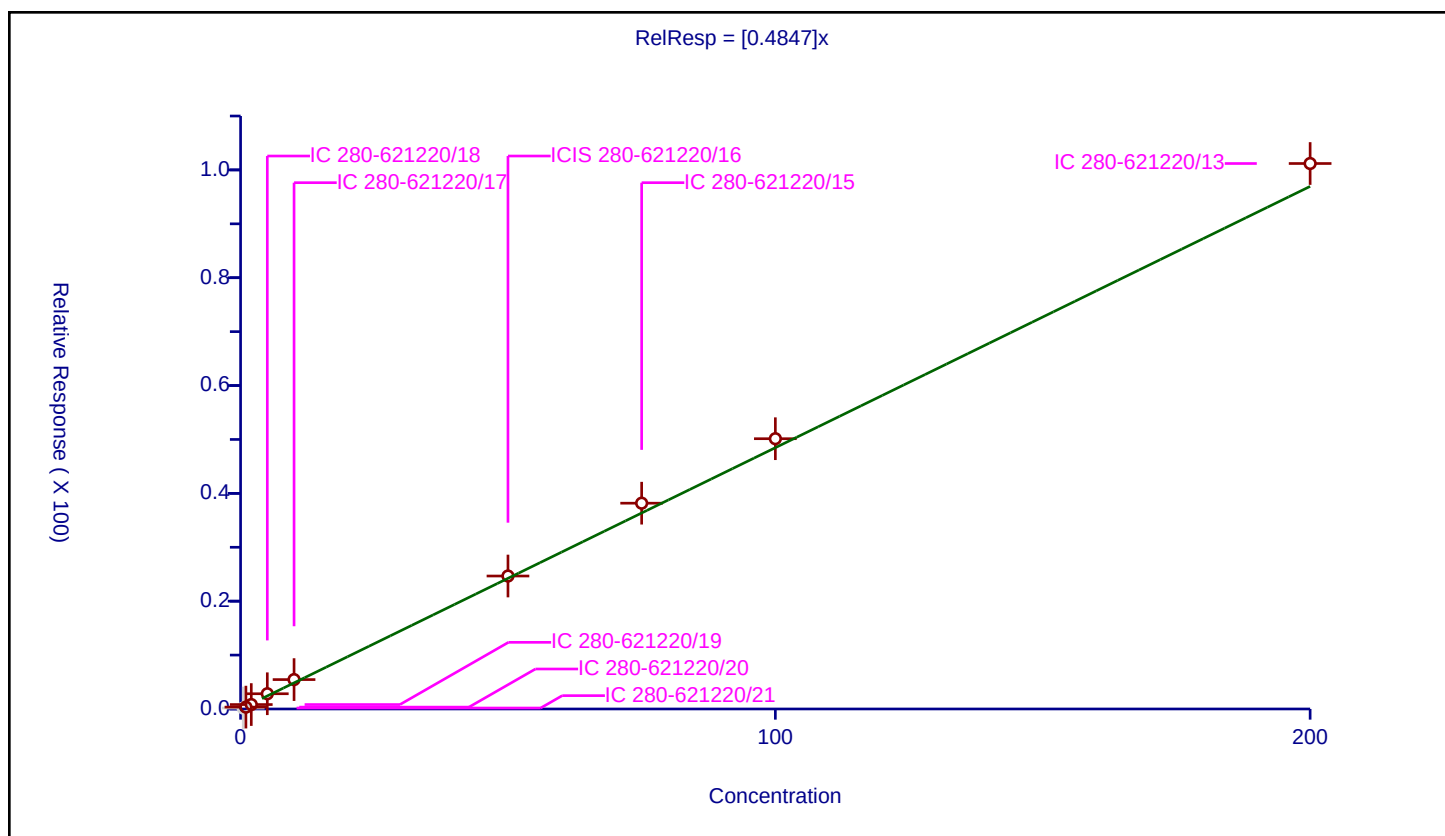
Curve Coefficients

Intercept: 0
 Slope: 0.4847

Error Coefficients

Standard Error: 864000
 Relative Standard Error: 14.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.178053	50.0	731522.0	0.356107	N
2	IC 280-621220/20	1.0	0.34653	50.0	789830.0	0.34653	Y
3	IC 280-621220/19	2.0	0.822359	50.0	834854.0	0.41118	Y
4	IC 280-621220/18	5.0	2.825737	50.0	841338.0	0.565147	Y
5	IC 280-621220/17	10.0	5.452614	50.0	852261.0	0.545261	Y
6	ICIS 280-621220/16	50.0	24.668066	50.0	917352.0	0.493361	Y
7	IC 280-621220/15	75.0	38.176234	50.0	902314.0	0.509016	Y
8	IC 280-621220/14	100.0	50.138712	50.0	909439.0	0.501387	Y
9	IC 280-621220/13	200.0	101.188261	50.0	951559.0	0.505941	Y



Calibration

/ 1,3-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

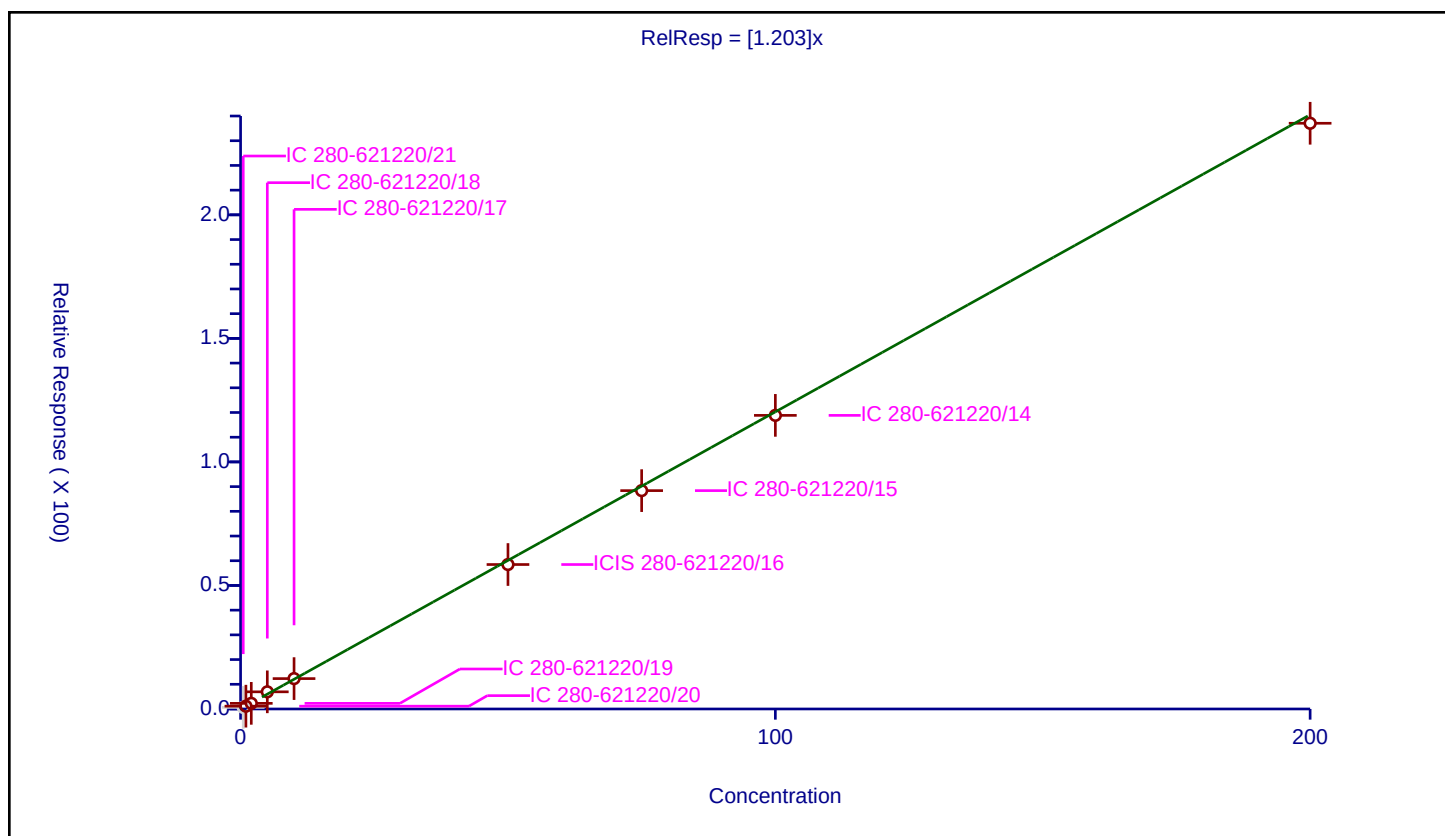
Curve Coefficients

Intercept: 0
 Slope: 1.203

Error Coefficients

Standard Error: 2030000
 Relative Standard Error: 6.7
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.644888	50.0	731522.0	1.289777	N
2	IC 280-621220/20	1.0	1.142018	50.0	789830.0	1.142018	Y
3	IC 280-621220/19	2.0	2.277823	50.0	834854.0	1.138912	Y
4	IC 280-621220/18	5.0	6.945366	50.0	841338.0	1.389073	Y
5	IC 280-621220/17	10.0	12.297641	50.0	852261.0	1.229764	Y
6	ICIS 280-621220/16	50.0	58.466761	50.0	917352.0	1.169335	Y
7	IC 280-621220/15	75.0	88.384088	50.0	902314.0	1.178455	Y
8	IC 280-621220/14	100.0	118.831664	50.0	909439.0	1.188317	Y
9	IC 280-621220/13	200.0	237.069062	50.0	951559.0	1.185345	Y



Calibration

/ 4-Isopropyltoluene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

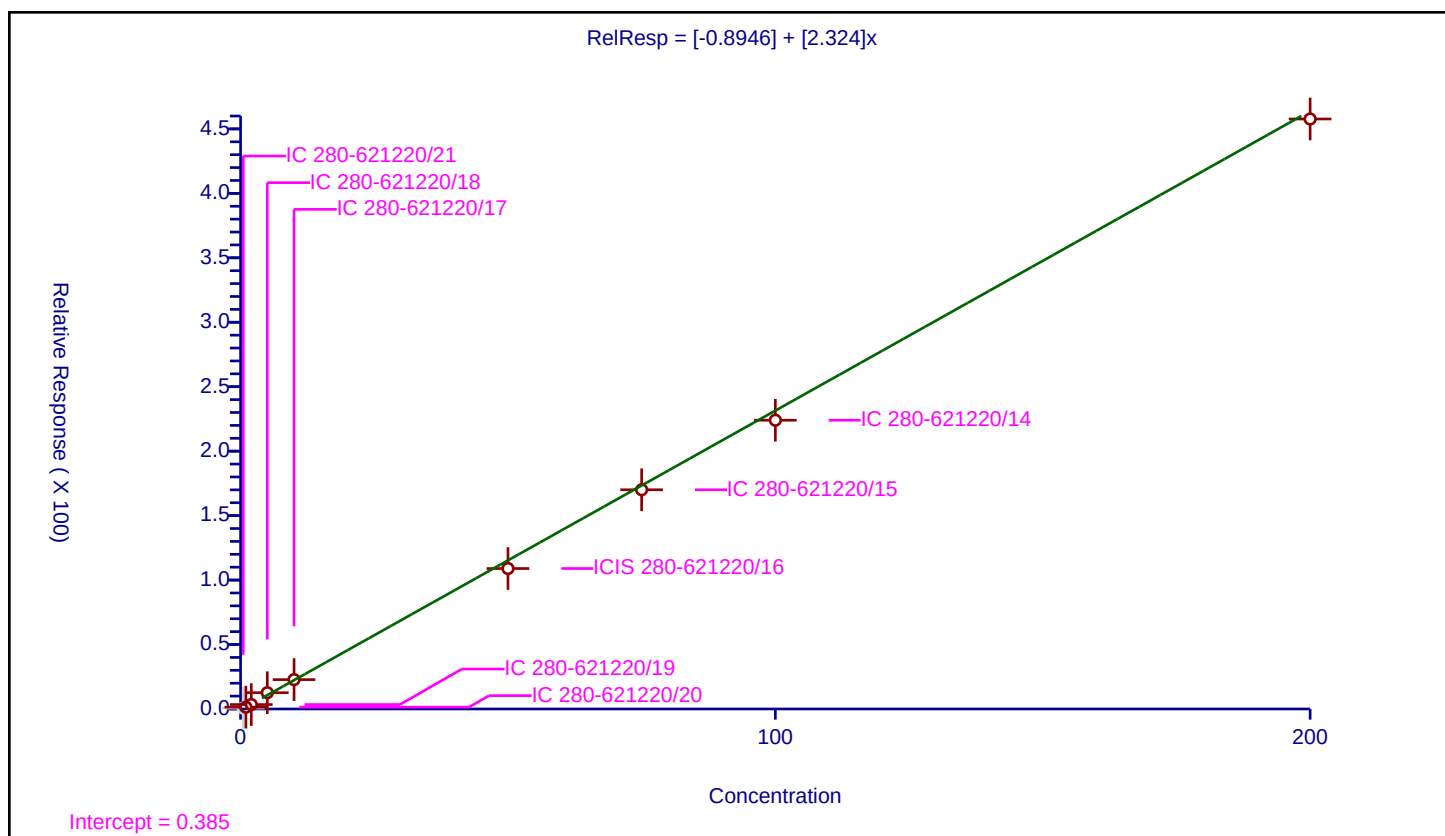
Curve Coefficients

Intercept: -0.8946
 Slope: 2.324

Error Coefficients

Standard Error: 4200000
 Relative Standard Error: 7.8
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.722808	50.0	731522.0	1.445616	N
2	IC 280-621220/20	1.0	1.427143	50.0	789830.0	1.427143	Y
3	IC 280-621220/19	2.0	3.451382	50.0	834854.0	1.725691	Y
4	IC 280-621220/18	5.0	12.638678	50.0	841338.0	2.527736	Y
5	IC 280-621220/17	10.0	22.790906	50.0	852261.0	2.279091	Y
6	ICIS 280-621220/16	50.0	108.968477	50.0	917352.0	2.17937	Y
7	IC 280-621220/15	75.0	170.057264	50.0	902314.0	2.26743	Y
8	IC 280-621220/14	100.0	224.003204	50.0	909439.0	2.240032	Y
9	IC 280-621220/13	200.0	457.683496	50.0	951559.0	2.288417	Y



Calibration

/ 1,4-Dichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

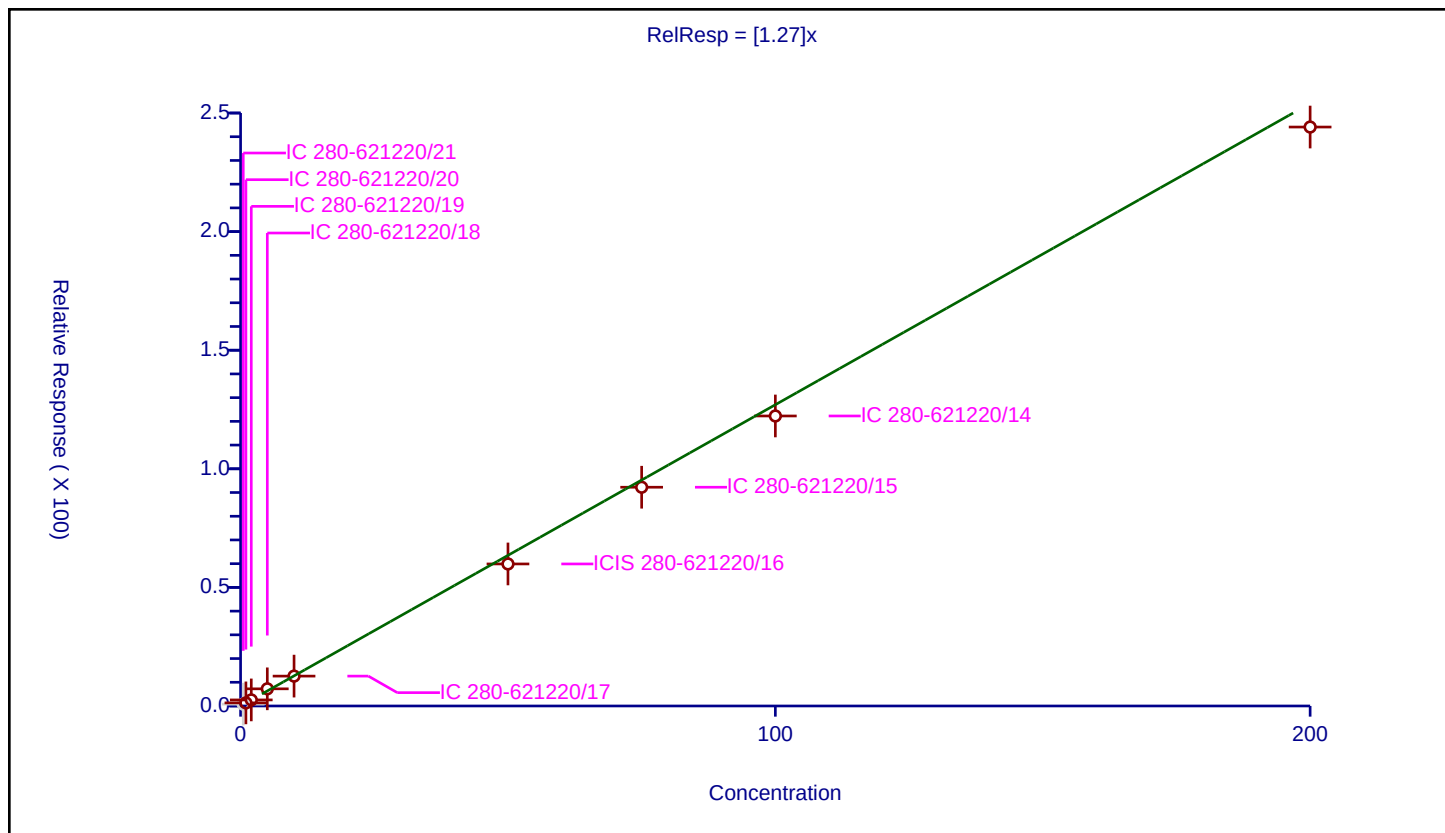
Curve Coefficients

Intercept: 0
Slope: 1.27

Error Coefficients

Standard Error: 2090000
Relative Standard Error: 6.3
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.78364	50.0	731522.0	1.56728	N
2	IC 280-621220/20	1.0	1.305028	50.0	789830.0	1.305028	Y
3	IC 280-621220/19	2.0	2.555117	50.0	834854.0	1.277559	Y
4	IC 280-621220/18	5.0	7.240194	50.0	841338.0	1.448039	Y
5	IC 280-621220/17	10.0	12.600424	50.0	852261.0	1.260042	Y
6	ICIS 280-621220/16	50.0	59.889715	50.0	917352.0	1.197794	Y
7	IC 280-621220/15	75.0	92.234466	50.0	902314.0	1.229793	Y
8	IC 280-621220/14	100.0	122.268014	50.0	909439.0	1.22268	Y
9	IC 280-621220/13	200.0	244.088438	50.0	951559.0	1.220442	Y



Calibration

/ n-Butylbenzene

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

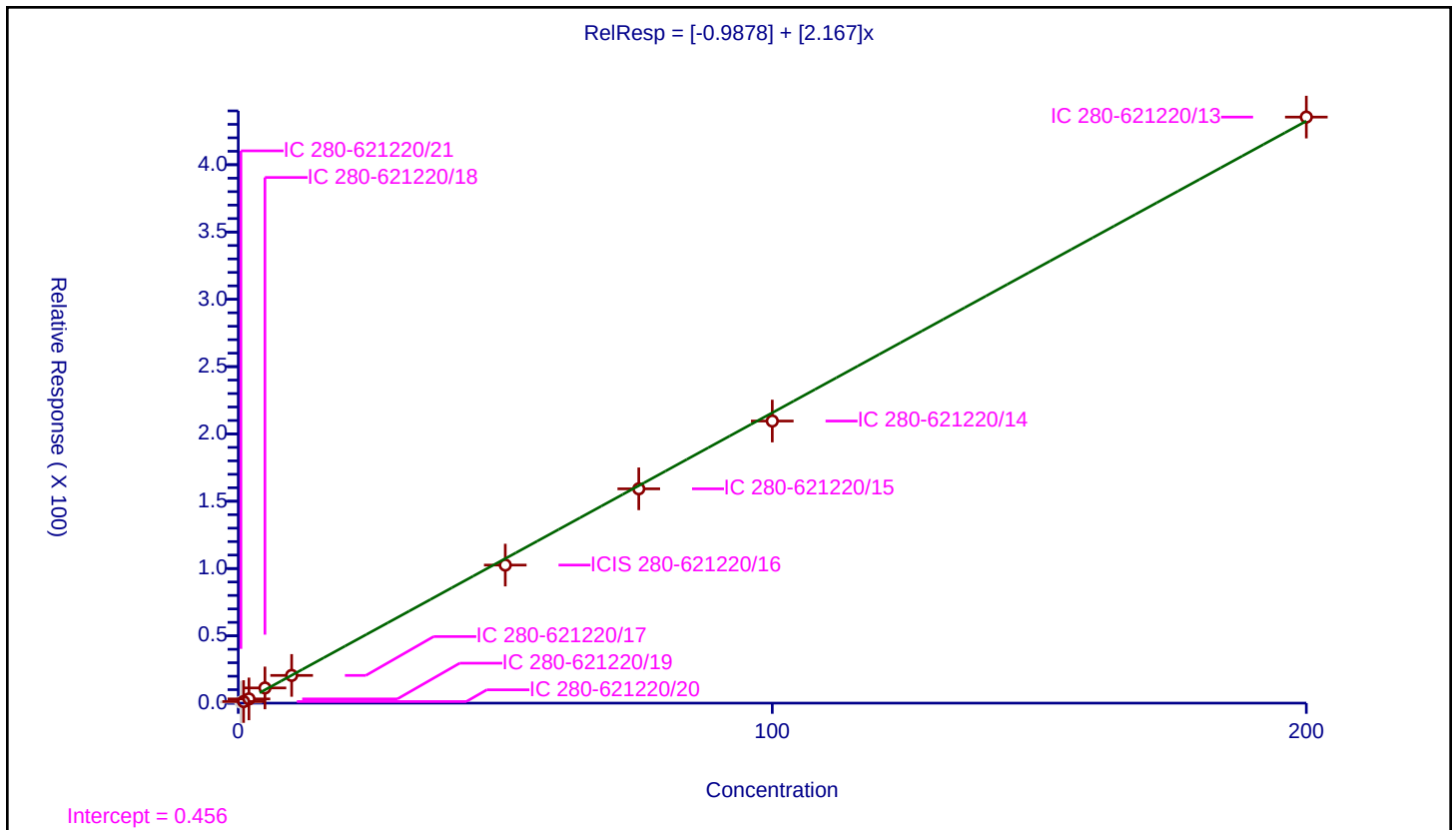
Curve Coefficients

Intercept: -0.9878
 Slope: 2.167

Error Coefficients

Standard Error: 3980000
 Relative Standard Error: 6.2
 Correlation Coefficient: 0.998
 Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.737367	50.0	731522.0	1.474734	N
2	IC 280-621220/20	1.0	1.176456	50.0	789830.0	1.176456	Y
3	IC 280-621220/19	2.0	3.143544	50.0	834854.0	1.571772	Y
4	IC 280-621220/18	5.0	11.285773	50.0	841338.0	2.257155	Y
5	IC 280-621220/17	10.0	20.591755	50.0	852261.0	2.059176	Y
6	ICIS 280-621220/16	50.0	102.576001	50.0	917352.0	2.05152	Y
7	IC 280-621220/15	75.0	159.217246	50.0	902314.0	2.122897	Y
8	IC 280-621220/14	100.0	209.574584	50.0	909439.0	2.095746	Y
9	IC 280-621220/13	200.0	435.385247	50.0	951559.0	2.176926	Y



Calibration

/ 1,2-Dichlorobenzene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

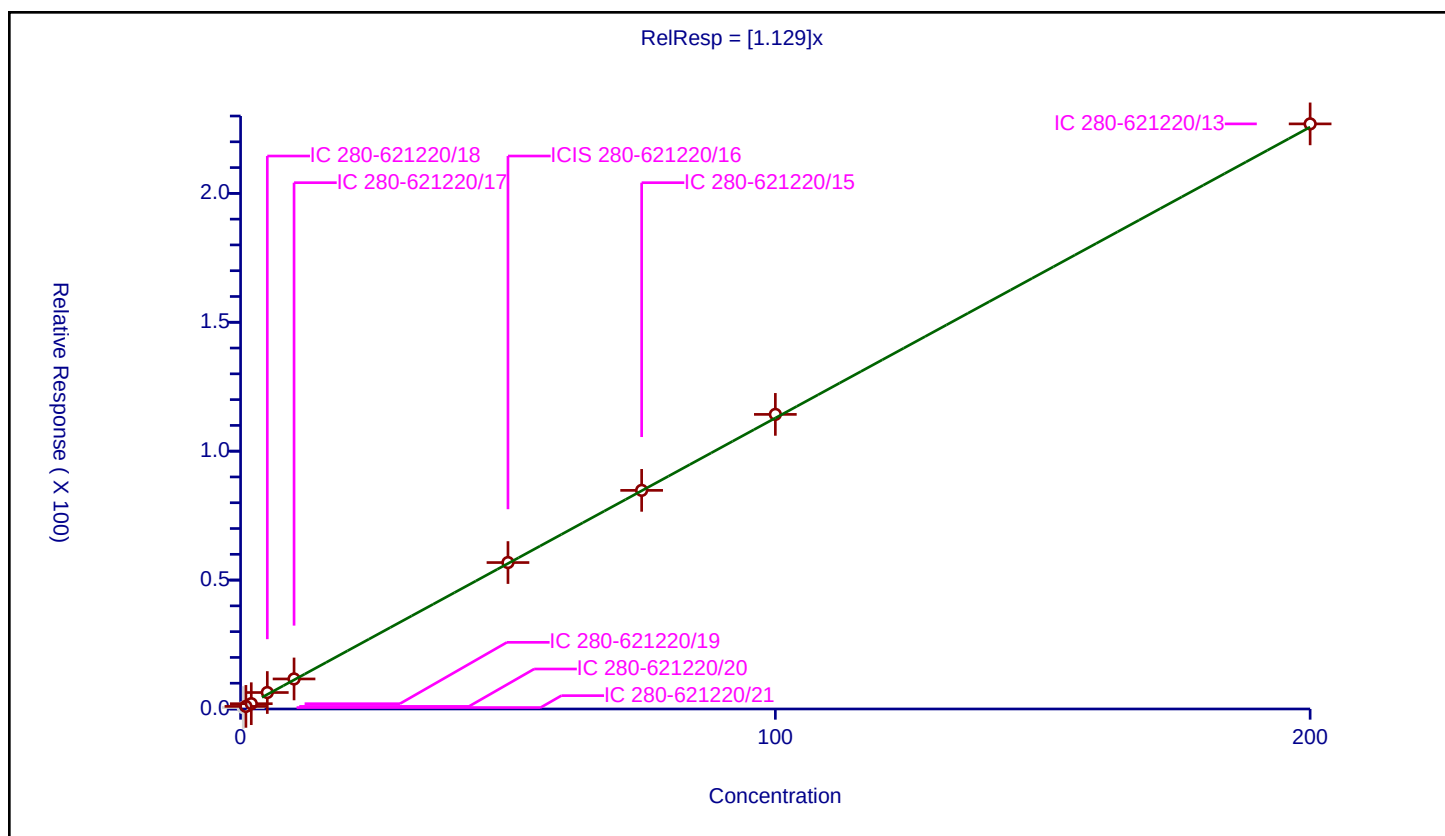
Curve Coefficients

Intercept: 0
 Slope: 1.129

Error Coefficients

Standard Error: 1940000
 Relative Standard Error: 7.3
 Correlation Coefficient: 0.999
 Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.561842	50.0	731522.0	1.123685	N
2	IC 280-621220/20	1.0	1.012243	50.0	789830.0	1.012243	Y
3	IC 280-621220/19	2.0	2.057366	50.0	834854.0	1.028683	Y
4	IC 280-621220/18	5.0	6.391248	50.0	841338.0	1.27825	Y
5	IC 280-621220/17	10.0	11.654176	50.0	852261.0	1.165418	Y
6	ICIS 280-621220/16	50.0	56.795756	50.0	917352.0	1.135915	Y
7	IC 280-621220/15	75.0	84.796645	50.0	902314.0	1.130622	Y
8	IC 280-621220/14	100.0	114.269236	50.0	909439.0	1.142692	Y
9	IC 280-621220/13	200.0	226.944099	50.0	951559.0	1.13472	Y



Calibration

/ 1,2-Dibromo-3-Chloropropane

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

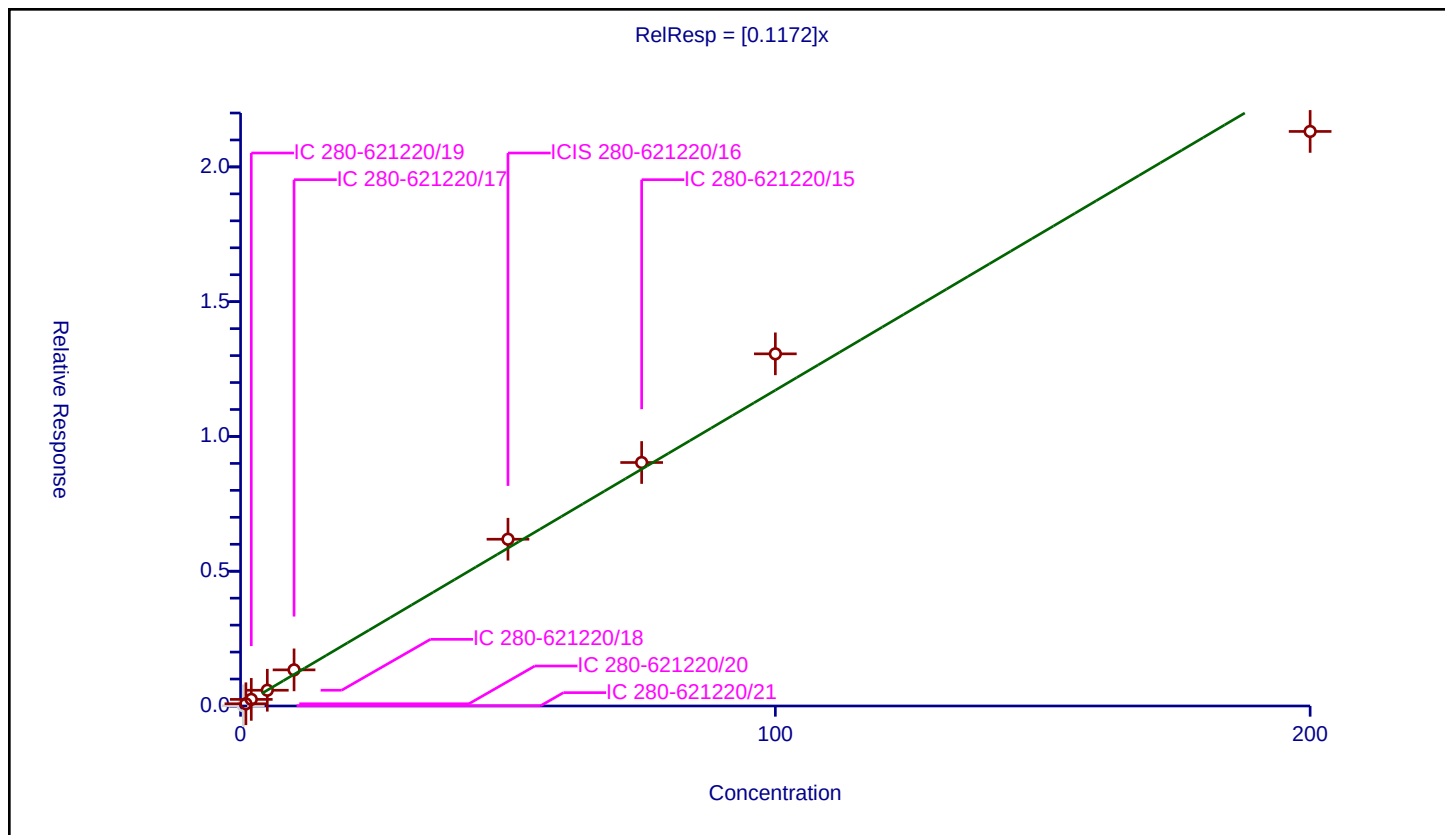
Curve Coefficients

Intercept: 0
Slope: 0.1172

Error Coefficients

Standard Error: 193000
Relative Standard Error: 13.9
Correlation Coefficient: 0.993
Coefficient of Determination (Adjusted): 0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.008954	50.0	731522.0	0.017908	N
2	IC 280-621220/20	1.0	0.082549	50.0	789830.0	0.082549	Y
3	IC 280-621220/19	2.0	0.244833	50.0	834854.0	0.122417	Y
4	IC 280-621220/18	5.0	0.584248	50.0	841338.0	0.11685	Y
5	IC 280-621220/17	10.0	1.340082	50.0	852261.0	0.134008	Y
6	ICIS 280-621220/16	50.0	6.186502	50.0	917352.0	0.12373	Y
7	IC 280-621220/15	75.0	9.033496	50.0	902314.0	0.120447	Y
8	IC 280-621220/14	100.0	13.065307	50.0	909439.0	0.130653	Y
9	IC 280-621220/13	200.0	21.315862	50.0	951559.0	0.106579	Y



Calibration

/ 1,2,4-Trichlorobenzene

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

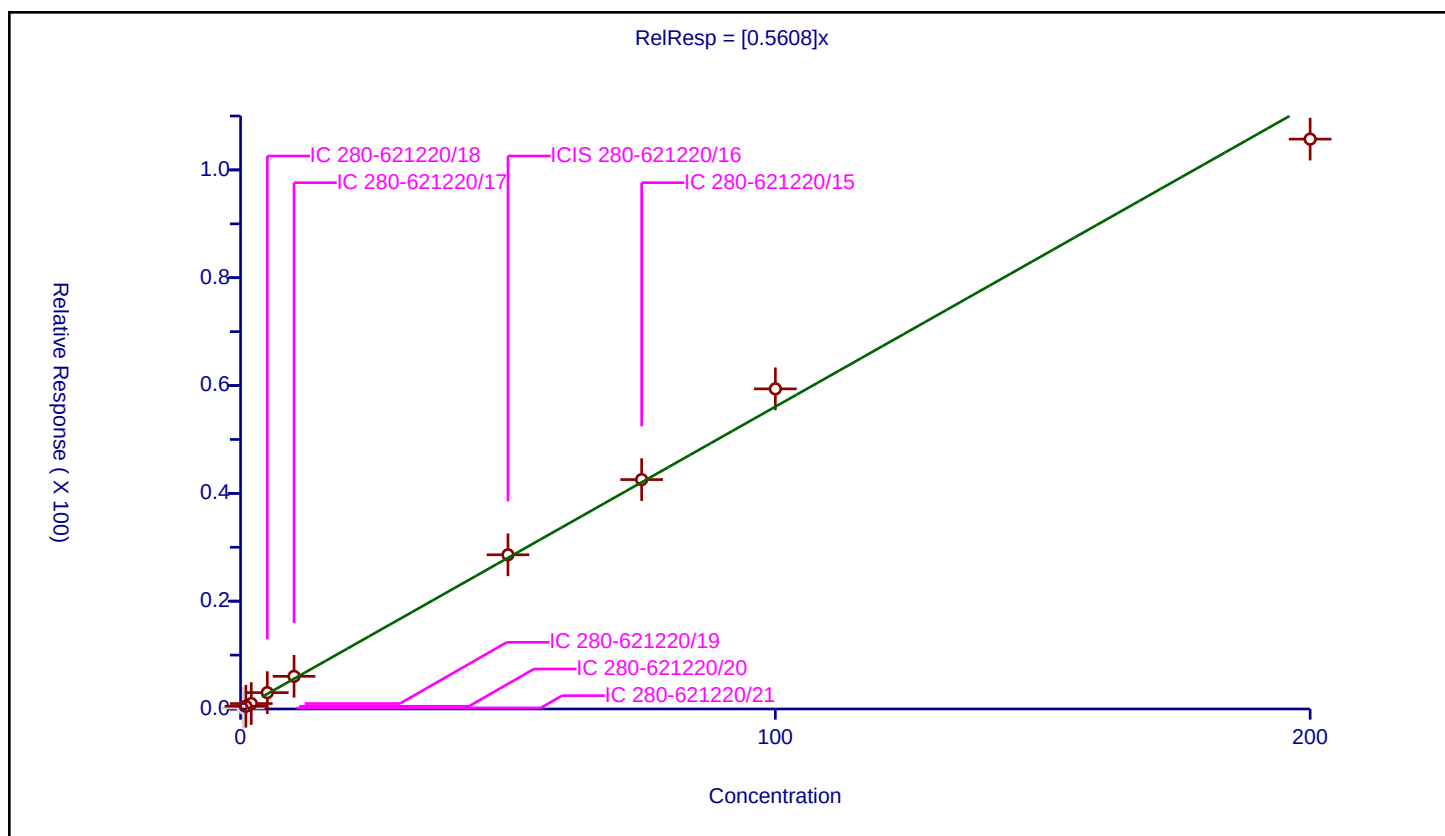
Curve Coefficients

Intercept: 0
Slope: 0.5608

Error Coefficients

Standard Error: 933000
Relative Standard Error: 7.5
Correlation Coefficient: 0.999
Coefficient of Determination (Adjusted): 0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.196371	50.0	731522.0	0.392743	N
2	IC 280-621220/20	1.0	0.507831	50.0	789830.0	0.507831	Y
3	IC 280-621220/19	2.0	1.00826	50.0	834854.0	0.50413	Y
4	IC 280-621220/18	5.0	3.033561	50.0	841338.0	0.606712	Y
5	IC 280-621220/17	10.0	6.056067	50.0	852261.0	0.605607	Y
6	ICIS 280-621220/16	50.0	28.605759	50.0	917352.0	0.572115	Y
7	IC 280-621220/15	75.0	42.55298	50.0	902314.0	0.567373	Y
8	IC 280-621220/14	100.0	59.385016	50.0	909439.0	0.59385	Y
9	IC 280-621220/13	200.0	105.71562	50.0	951559.0	0.528578	Y



Calibration

/ Hexachlorobutadiene

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

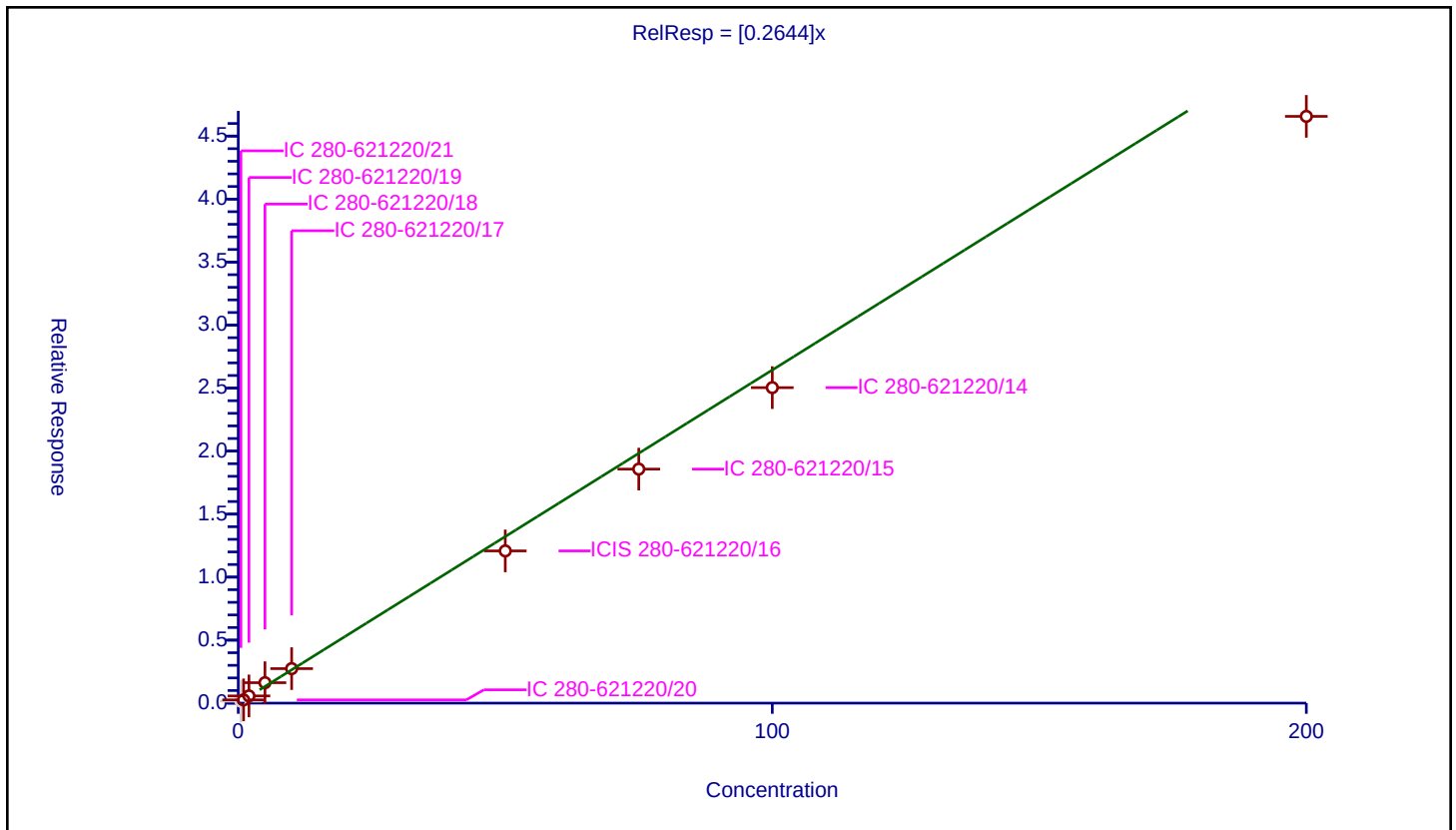
Curve Coefficients

Intercept: 0
 Slope: 0.2644

Error Coefficients

Standard Error: 407000
 Relative Standard Error: 11.2
 Correlation Coefficient: 1.000
 Coefficient of Determination (Adjusted): 0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.158505	50.0	731522.0	0.31701	N
2	IC 280-621220/20	1.0	0.258473	50.0	789830.0	0.258473	Y
3	IC 280-621220/19	2.0	0.571837	50.0	834854.0	0.285918	Y
4	IC 280-621220/18	5.0	1.621524	50.0	841338.0	0.324305	Y
5	IC 280-621220/17	10.0	2.737894	50.0	852261.0	0.273789	Y
6	ICIS 280-621220/16	50.0	12.080205	50.0	917352.0	0.241604	Y
7	IC 280-621220/15	75.0	18.571584	50.0	902314.0	0.247621	Y
8	IC 280-621220/14	100.0	25.036753	50.0	909439.0	0.250368	Y
9	IC 280-621220/13	200.0	46.564165	50.0	951559.0	0.232821	Y



Calibration

/ Naphthalene

Curve Type: Linear
Weighting: Conc
Origin: None
Dependency: Response
Calib Mode: ISTD
Response Base: AREA
RF Rounding: 0

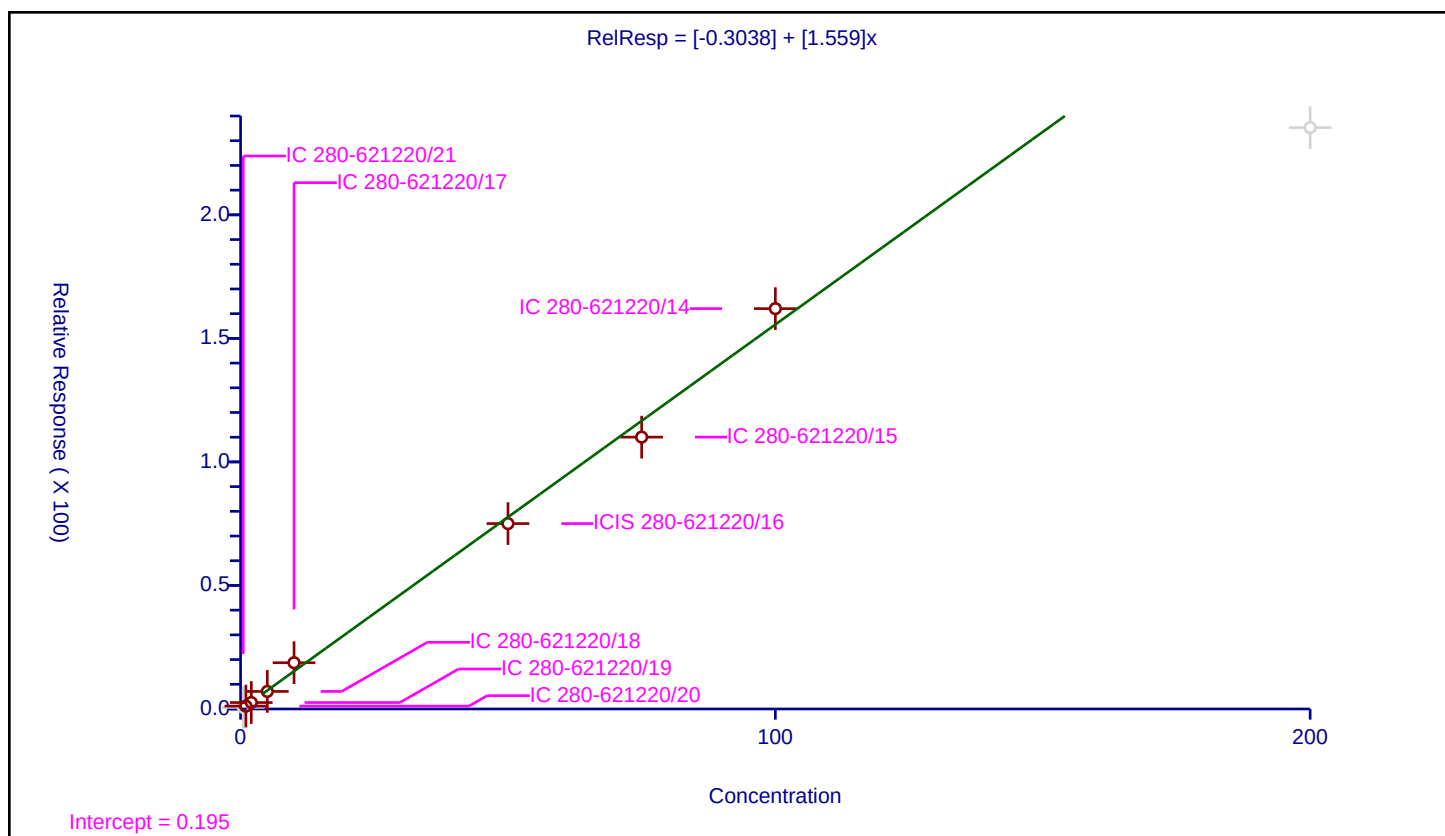
Curve Coefficients

Intercept: -0.3038
Slope: 1.559

Error Coefficients

Standard Error: 1710000
Relative Standard Error: 11.4
Correlation Coefficient: 0.996
Coefficient of Determination (Adjusted): 0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.639079	50.0	731522.0	1.278157	N
2	IC 280-621220/20	1.0	1.168416	50.0	789830.0	1.168416	Y
3	IC 280-621220/19	2.0	2.604407	50.0	834854.0	1.302204	Y
4	IC 280-621220/18	5.0	7.1104	50.0	841338.0	1.42208	Y
5	IC 280-621220/17	10.0	18.722023	50.0	852261.0	1.872202	Y
6	ICIS 280-621220/16	50.0	75.040715	50.0	917352.0	1.500814	Y
7	IC 280-621220/15	75.0	110.032151	50.0	902314.0	1.467095	Y
8	IC 280-621220/14	100.0	162.042919	50.0	909439.0	1.620429	Y
9	IC 280-621220/13	200.0	235.303486	50.0	951559.0	1.176517	N



Calibration

/ 1,2,3-Trichlorobenzene

Curve Type: Quadratic
 Weighting: None
 Origin: None
 Dependency: Response
 Calib Mode: ISTD
 Response Base: AREA
 RF Rounding: 0

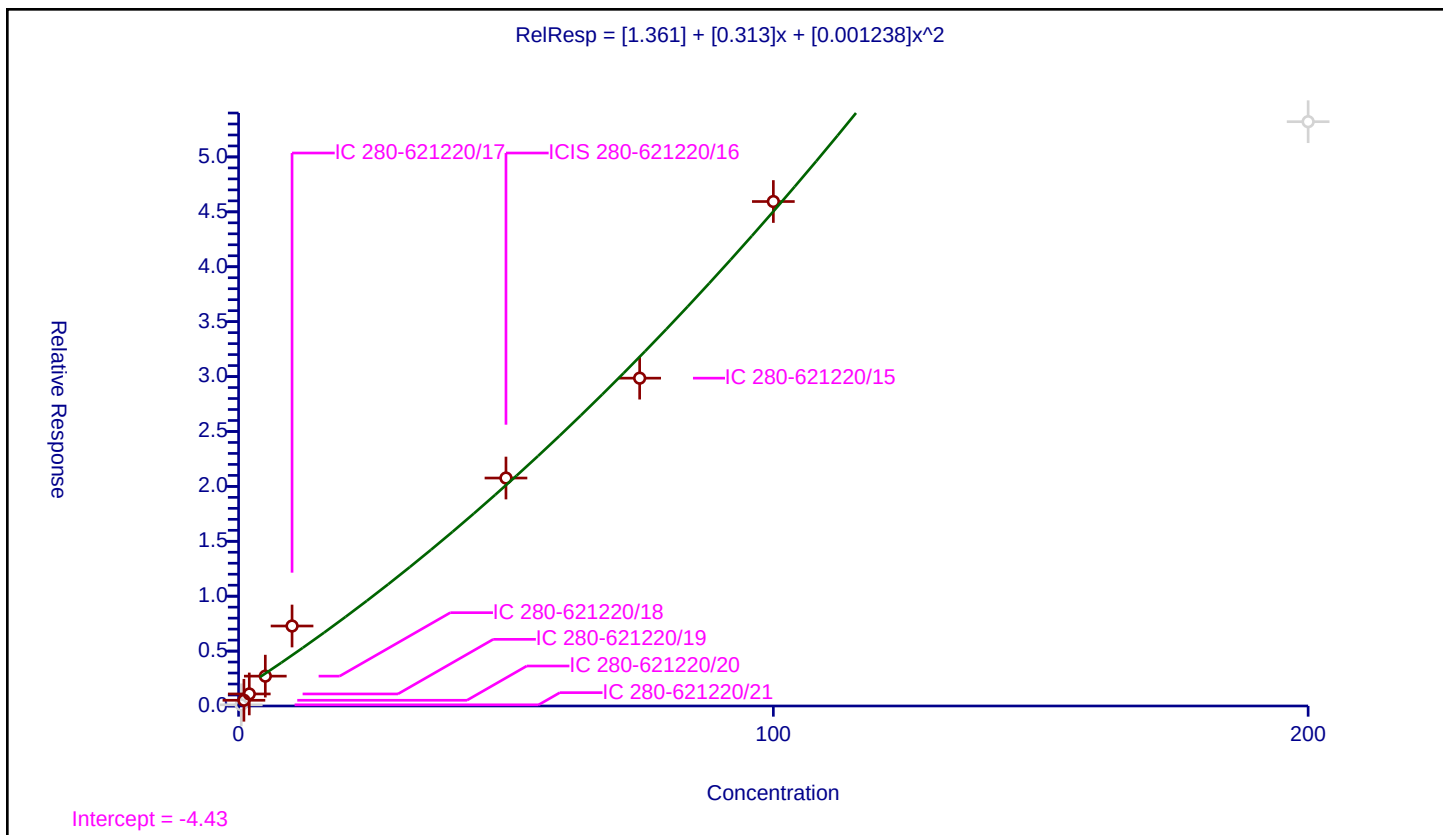
Curve Coefficients

Intercept: 1.361
 Slope: 0.313
 Second Order: 0.001238

Error Coefficients

Standard Error: 536000
 Relative Standard Error: 202.6
 Correlation Coefficient: 0.993
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 280-621220/21	0.5	0.109088	50.0	731522.0	0.218175	N
2	IC 280-621220/20	1.0	0.521061	50.0	789830.0	0.521061	Y
3	IC 280-621220/19	2.0	1.09588	50.0	834854.0	0.54794	Y
4	IC 280-621220/18	5.0	2.719656	50.0	841338.0	0.543931	Y
5	IC 280-621220/17	10.0	7.283098	50.0	852261.0	0.72831	Y
6	ICIS 280-621220/16	50.0	20.760188	50.0	917352.0	0.415204	Y
7	IC 280-621220/15	75.0	29.85474	50.0	902314.0	0.398063	Y
8	IC 280-621220/14	100.0	45.939365	50.0	909439.0	0.459394	Y
9	IC 280-621220/13	200.0	53.20989	50.0	951559.0	0.266049	N



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: ICV 280-597846/20 Calibration Date: 12/28/2022 14:55
 Instrument ID: VMS_MS1 Calib Start Date: 12/28/2022 11:59
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 12/28/2022 14:33
 Lab File ID: MS1_4158.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0035	0.0035*	0.0100	2600	3000	0.7	30.0
Isopropyl alcohol	Ave	0.0168	0.0162	0.0100	400	500	-3.6	30.0
Acetonitrile	Ave	0.0400	0.0366	0.0100	457	500	-8.5	30.0
Isopropyl ether	Ave	0.1639	0.1646	0.0100	45.3	50.0	0.5	30.0
Chloroprene	Ave	0.3120	0.3279	0.0100	46.6	50.0	5.1	30.0
Tert-butyl ethyl ether	Ave	0.6150	0.6359	0.0100	46.2	50.0	3.4	30.0
Ethyl acetate	Lin2		0.2418	0.0100	84.6	100	-15.4	30.0
Propionitrile	Ave	0.0404	0.0382	0.0100	427	500	-5.4	30.0
Methacrylonitrile	Ave	0.1568	0.1519	0.0100	438	500	-3.1	30.0
Tert-amyl methyl ether	Ave	0.5682	0.5700	0.0100	44.6	50.0	0.3	30.0
n-Butanol	Ave	0.0060	0.0063*	0.0100	1120	1250	5.0	30.0
Methyl methacrylate	Ave	0.0634	0.0616	0.0100	86.3	100	-3.0	30.0
2-Nitropropane	Lin1		0.0505	0.0100	81.9	100	-18.1	30.0
cis-1,4-Dichloro-2-butene	Ave	0.1861	0.2011	0.0100	96.2	100	8.1	30.0
1,2,3-Trimethylbenzene	Ave	2.095	2.073	0.0100	42.3	50.0	-1.1	30.0
1,3,5-Trichlorobenzene	Ave	0.6831	0.6990	0.0100	43.0	50.0	2.3	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4158.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 28-Dec-2022 14:55:30 ALS Bottle#: 9 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: SUNLEEC Instrument ID: VMS_MS1
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Dec-2022 10:55:31 Calib Date: 28-Dec-2022 14:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4157.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: LW7N

Date: 29-Dec-2022 10:13:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1766372	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	89	407804	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	97	657299	50.0	50.0	
19 Ethanol	45	3.071	3.071	0.000	100	375159	3000.0	2600.6	
27 Isopropyl alcohol	45	3.587	3.587	0.000	97	286797	500.0	399.8	
29 Acetonitrile	41	3.727	3.727	0.000	99	646834	500.0	457.4	
41 Isopropyl ether	87	4.551	4.551	0.000	92	290744	50.0	45.3	
42 2-Chloro-1,3-butadiene	53	4.607	4.607	0.000	95	579264	50.0	46.6	
44 Tert-butyl ethyl ether	59	4.872	4.872	0.000	97	1123212	50.0	46.2	
47 Ethyl acetate	43	5.040	5.040	0.000	100	854050	100.0	84.6	
50 Propionitrile	54	5.082	5.082	0.000	99	674554	500.0	426.8	
52 Methacrylonitrile	41	5.207	5.207	0.000	94	2683113	500.0	438.0	
65 Tert-amyl methyl ether	73	5.878	5.878	0.000	88	1006841	50.0	44.6	
67 n-Butanol	56	6.227	6.227	0.000	93	279470	1250.0	1115.0	
72 Methyl methacrylate	100	6.590	6.590	0.000	91	217482	100.0	86.3	
76 2-Nitropropane	41	6.995	6.995	0.000	94	178307	100.0	81.9	
108 cis-1,4-Dichloro-2-butene	53	9.788	9.774	0.014	0	264381	100.0	96.2	
124 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	1362382	50.0	42.3	
129 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	96	459449	50.0	43.0	
145 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00057

Amount Added: 50.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4158.D

Injection Date: 28-Dec-2022 14:55:30

Instrument ID: VMS_MS1

Operator ID: SUNLEEC

Lims ID: ICV

Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

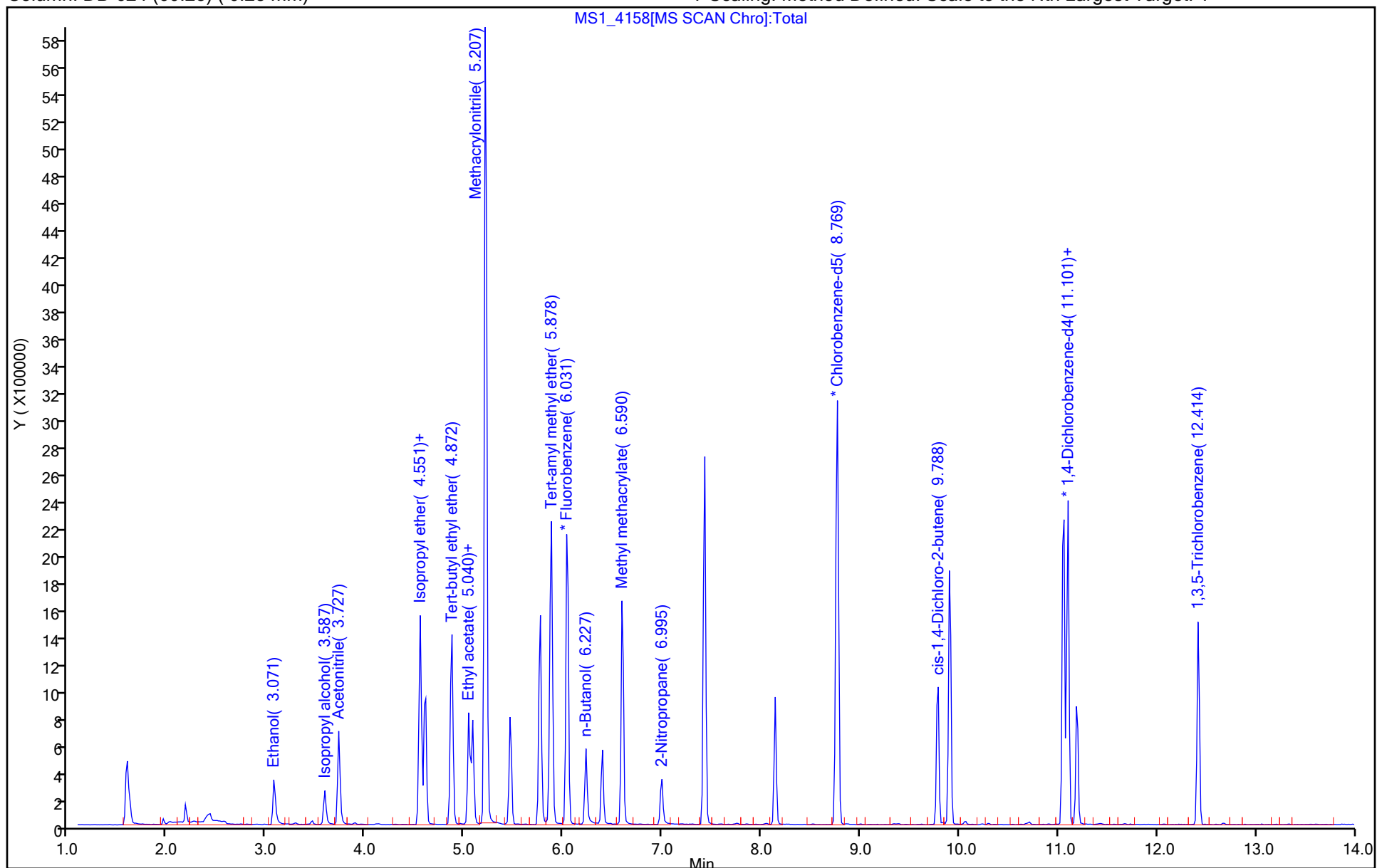
ALS Bottle#: 9

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: ICV 280-621383/22 Calibration Date: 08/01/2023 13:03

Instrument ID: VMS_MS1 Calib Start Date: 08/01/2023 09:52

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 08/01/2023 12:42

Lab File ID: MS1_2685.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2107	0.1000	54.1	50.0	8.2	30.0
Chloromethane	Lin2		0.2552	0.1000	55.2	50.0	10.5	30.0
Vinyl chloride	Lin2		0.2391	0.0100	56.3	50.0	12.6	30.0
Bromomethane	Lin2		0.1454	0.0100	52.6	50.0	5.2	30.0
Chloroethane	Lin2		0.1561	0.0100	58.1	50.0	16.3	30.0
Dichlorofluoromethane	Lin2		0.3948	0.0100	62.9	50.0	25.7	30.0
Trichlorofluoromethane	Ave	0.2687	0.2803	0.0100	52.2	50.0	4.3	30.0
Ethyl ether	Ave	0.1816	0.1791	0.0100	49.3	50.0	-1.4	30.0
Acrolein	Ave	0.0324	0.0322	0.0010	491	494	-0.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1216	0.1224	0.0500	50.3	50.0	0.6	30.0
1,1-Dichloroethene	Ave	0.1776	0.1690	0.0600	47.6	50.0	-4.8	30.0
Acetone	Lin2		0.0755	0.0100	201	200	0.7	30.0
Iodomethane	Ave	0.1992	0.1865	0.0100	46.8	50.0	-6.4	30.0
Carbon disulfide	Ave	0.6132	0.5667	0.1000	46.2	50.0	-7.6	30.0
Methyl acetate	Ave	0.1842	0.1737	0.0100	94.3	100	-5.7	30.0
Allyl chloride	Lin2		0.3345	0.0100	52.6	50.0	5.2	30.0
Methylene Chloride	Lin2		0.2078	0.0100	52.1	50.0	4.2	30.0
2-Methyl-2-propanol	Ave	0.0249	0.0267	0.0010	535	500	7.1	30.0
Acrylonitrile	Ave	0.0933	0.0951	0.0100	510	500	2.0	30.0
Methyl tert-butyl ether	Ave	0.5792	0.6196	0.1000	53.5	50.0	7.0	30.0
trans-1,2-Dichloroethene	Lin2		0.1912	0.1000	50.1	50.0	0.3	30.0
Hexane	Ave	0.9241	0.9189	0.0100	49.7	50.0	-0.6	30.0
Vinyl acetate	Ave	0.3488	0.3367	0.0100	96.6	100	-3.4	30.0
1,1-Dichloroethane	Lin2		0.3698	0.1000	49.7	50.0	-0.5	30.0
2-Butanone (MEK)	Ave	0.1159	0.1163	0.0100	201	200	0.4	30.0
2,2-Dichloropropane	Lin2		0.2851	0.0100	46.6	50.0	-6.9	30.0
cis-1,2-Dichloroethene	Lin2		0.2189	0.1000	51.7	50.0	3.3	30.0
sec-Butyl Alcohol	Ave	0.0198	0.0209	0.0100	1270	1200	5.5	30.0
Chlorobromomethane	Lin2		0.0849	0.0500	50.1	50.0	0.1	30.0
Tetrahydrofuran	Ave	0.0772	0.0746	0.0010	96.7	100	-3.3	30.0
Chloroform	Lin2		0.3469	0.2000	51.7	50.0	3.4	30.0
1,1,1-Trichloroethane	Lin2		0.2941	0.0500	50.9	50.0	1.9	30.0
Cyclohexane	Ave	0.3387	0.3318	0.0100	49.0	50.0	-2.0	30.0
1,1-Dichloropropene	Ave	0.2888	0.2633	0.0100	45.6	50.0	-8.8	30.0
Carbon tetrachloride	Ave	0.2482	0.2292	0.1000	46.2	50.0	-7.7	30.0
Isobutyl alcohol	Ave	0.0082	0.0086	0.0010	1310	1250	5.2	30.0
Benzene	Ave	0.8912	0.8416	0.2000	47.2	50.0	-5.6	30.0
1,2-Dichloroethane	Ave	0.2963	0.2783	0.0700	47.0	50.0	-6.1	30.0
n-Heptane	Lin1		0.1913		47.3	50.0	-5.3	
Trichloroethene	Lin2		0.8702	0.2000	52.8	50.0	5.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: ICV 280-621383/22 Calibration Date: 08/01/2023 13:03

Instrument ID: VMS_MS1 Calib Start Date: 08/01/2023 09:52

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 08/01/2023 12:42

Lab File ID: MS1_2685.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Ave	0.1685	0.1832	0.0010	174	160	8.7	30.0
Methylcyclohexane	Ave	0.2253	0.2259	0.0500	50.1	50.0	0.3	30.0
1,2-Dichloropropane	Ave	0.2252	0.2174	0.1000	48.3	50.0	-3.4	30.0
1,4-Dioxane	Lin2		0.0032	0.0010	952	1000	-4.8	30.0
Dibromomethane	Ave	0.1265	0.1251	0.0100	49.5	50.0	-1.1	30.0
Dichlorobromomethane	Ave	0.2749	0.2717	0.2000	49.4	50.0	-1.2	30.0
2-Chloroethyl vinyl ether	Ave	0.1065	0.1100	0.0100	51.6	50.0	3.3	30.0
cis-1,3-Dichloropropene	Ave	1.424	1.326	0.2000	46.5	50.0	-6.9	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2205	0.2282	0.0300	207	200	3.5	30.0
Toluene	Lin2		0.8579	0.3000	48.9	50.0	-2.3	30.0
trans-1,3-Dichloropropene	Ave	0.3285	0.3214	0.2000	48.9	50.0	-2.2	30.0
Ethyl methacrylate	Ave	1.164	1.187	0.0100	51.0	50.0	2.0	30.0
1,1,2-Trichloroethane	Ave	0.1771	0.1806	0.1000	51.0	50.0	2.0	30.0
Tetrachloroethene	Ave	0.6318	0.6008	0.1000	47.5	50.0	-4.9	30.0
1,3-Dichloropropane	Ave	1.303	1.336	0.0100	51.3	50.0	2.6	30.0
2-Hexanone	Ave	0.6622	0.6674	0.0100	202	200	0.8	30.0
Chlorodibromomethane	Ave	0.7638	0.7675	0.1000	50.2	50.0	0.5	30.0
1,2-Dibromoethane	Ave	0.7766	0.7570	0.1000	48.7	50.0	-2.5	30.0
1-Chlorohexane	Lin2		1.049	0.0100	41.5	40.0	3.7	30.0
Chlorobenzene	Ave	2.293	2.161	0.3000	47.1	50.0	-5.8	30.0
1,1,1,2-Tetrachloroethane	Ave	0.7799	0.7674	0.0100	49.2	50.0	-1.6	30.0
Ethylbenzene	Ave	1.271	1.190	0.3000	46.8	50.0	-6.4	30.0
m-Xylene & p-Xylene	Lin2		1.512	0.1000	50.0	50.0	0.0	30.0
o-Xylene	Ave	1.566	1.472	0.2000	47.0	50.0	-6.0	30.0
Styrene	Ave	2.636	2.607	0.2000	49.4	50.0	-1.1	30.0
Bromoform	Ave	0.5439	0.5295	0.1000	48.7	50.0	-2.6	30.0
Isopropylbenzene	Ave	2.430	2.316	0.3000	47.7	50.0	-4.7	30.0
Cyclohexanone	Ave	0.0613	0.0535	0.0010	1310	1500	-12.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6259	0.6265	0.3000	50.0	50.0	0.0	30.0
Bromobenzene	Ave	0.6036	0.5722	0.0100	47.4	50.0	-5.2	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2132	0.2073	0.0100	48.6	50.0	-2.8	30.0
1,2,3-Trichloropropane	Ave	0.2077	0.1987	0.0100	47.9	50.0	-4.3	30.0
N-Propylbenzene	Ave	0.6596	0.6180	0.0100	46.8	50.0	-6.3	30.0
2-Chlorotoluene	Ave	0.5799	0.5513	0.0100	47.5	50.0	-4.9	30.0
1,3,5-Trimethylbenzene	Ave	2.053	1.918	0.0100	46.7	50.0	-6.5	30.0
4-Chlorotoluene	Lin2		0.5795	0.0100	50.9	50.0	1.7	30.0
tert-Butylbenzene	Lin2		1.552	0.0100	50.6	50.0	1.3	30.0
1,2,4-Trimethylbenzene	Lin2		1.991	0.3000	49.5	50.0	-1.0	30.0
sec-Butylbenzene	Ave	0.4481	0.4240	0.0100	47.3	50.0	-5.4	30.0
1,3-Dichlorobenzene	Lin2		1.062	0.5000	50.8	50.0	1.6	30.0
4-Isopropyltoluene	Lin2		1.849	0.0100	49.2	50.0	-1.7	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: ICV 280-621383/22 Calibration Date: 08/01/2023 13:03
 Instrument ID: VMS_MS1 Calib Start Date: 08/01/2023 09:52
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 08/01/2023 12:42
 Lab File ID: MS1_2685.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Ave	1.131	1.098	0.5000	48.5	50.0	-3.0	30.0
n-Butylbenzene	Lin2		1.655	0.0100	51.3	50.0	2.6	30.0
1,2-Dichlorobenzene	Ave	1.052	1.001	0.5000	47.5	50.0	-4.9	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1470	0.1369	0.0100	46.6	50.0	-6.8	30.0
1,2,4-Trichlorobenzene	Lin2		0.5802	0.2000	49.6	50.0	-0.7	30.0
Hexachlorobutadiene	Ave	0.2341	0.2138	0.0100	45.7	50.0	-8.7	30.0
Naphthalene	Lin1		1.767	0.0100	49.2	50.0	-1.5	30.0
1,2,3-Trichlorobenzene	Lin2		0.4822	0.3000	45.1	50.0	-9.8	30.0
Dibromofluoromethane (Surr)	Ave	0.2474	0.2455	0.0100	49.6	50.0	-0.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3117	0.3107	0.0100	49.8	50.0	-0.3	30.0
Toluene-d8 (Surr)	Ave	4.113	4.157	0.0100	50.5	50.0	1.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.996	0.997	0.0100	50.0	50.0	0.0	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2685.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 01-Aug-2023 13:03:30 ALS Bottle#: 13 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icv
 Operator ID: wickham Instrument ID: VMS_MS1
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:21:11 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: Q2ZS

Date: 01-Aug-2023 14:12:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1474823	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	88	361043	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	98	569515	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	362063	50.0	49.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.766	0.000	0	458284	50.0	49.8	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1500947	50.0	50.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	85	567691	50.0	50.0	
9 Dichlorodifluoromethane	85	1.814	1.813	0.001	99	310696	50.0	54.1	
10 Chloromethane	50	2.023	2.023	0.000	99	376363	50.0	55.2	
11 Vinyl chloride	62	2.135	2.135	0.000	98	352604	50.0	56.3	
13 Bromomethane	94	2.498	2.498	0.000	92	214500	50.0	52.6	
14 Chloroethane	64	2.624	2.623	0.001	100	230221	50.0	58.1	
15 Dichlorofluoromethane	67	2.861	2.861	0.000	97	582299	50.0	62.9	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	99	413327	50.0	52.2	
18 Ethyl ether	59	3.182	3.182	0.000	92	264206	50.0	49.3	
20 Acrolein	56	3.322	3.322	0.000	99	469517	493.8	491.0	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.420	3.420	0.000	95	180447	50.0	50.3	
22 1,1-Dichloroethene	96	3.420	3.420	0.000	97	249307	50.0	47.6	
23 Acetone	43	3.448	3.447	0.001	99	445217	200.0	201.3	
24 Iodomethane	142	3.559	3.559	0.000	98	275053	50.0	46.8	
26 Carbon disulfide	76	3.629	3.629	0.000	100	835832	50.0	46.2	
28 Methyl acetate	43	3.755	3.755	0.000	98	512221	100.0	94.3	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	90	493328	50.0	52.6	
30 Methylene Chloride	84	3.895	3.894	0.001	94	306530	50.0	52.1	
31 2-Methyl-2-propanol	59	3.964	3.964	0.000	99	393142	500.0	535.3	
32 Acrylonitrile	53	4.104	4.104	0.000	98	1403056	500.0	509.9	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	96	913833	50.0	53.5	
34 trans-1,2-Dichloroethene	96	4.146	4.146	0.000	98	281934	50.0	50.1	
36 Hexane	57	4.383	4.383	0.000	95	331768	50.0	49.7	
38 Vinyl acetate	43	4.523	4.523	0.000	98	993263	100.0	96.6	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	545447	50.0	49.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2-Butanone (MEK)	43	5.012	5.012	0.000	100	686067	200.0	200.7	
46 2,2-Dichloropropane	77	5.040	5.040	0.000	88	420476	50.0	46.6	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	83	322896	50.0	51.7	
49 sec-Butyl Alcohol	45	5.166	5.165	0.001	99	741144	1200.0	1266.0	
52 Tetrahydrofuran	42	5.249	5.249	0.000	87	220139	100.0	96.7	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	125243	50.0	50.1	
53 Chloroform	83	5.319	5.319	0.000	94	511684	50.0	51.7	
54 1,1,1-Trichloroethane	97	5.473	5.487	-0.014	98	433712	50.0	50.9	
57 Cyclohexane	56	5.543	5.542	0.001	92	489374	50.0	49.0	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	93	388251	50.0	45.6	
59 Carbon tetrachloride	117	5.612	5.612	0.000	86	338036	50.0	46.2	
60 Isobutyl alcohol	41	5.654	5.654	0.000	94	318200	1250.0	1314.6	
61 Benzene	78	5.794	5.794	0.000	97	1241267	50.0	47.2	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	98	410382	50.0	47.0	
64 n-Heptane	43	6.004	6.017	-0.013	94	282067	50.0	47.3	
66 Trichloroethene	95	6.353	6.352	0.001	98	314169	50.0	52.8	
67 2-Pentanone	43	6.478	6.478	0.000	99	864423	160.0	173.9	
68 Methylcyclohexane	55	6.548	6.562	-0.014	96	333112	50.0	50.1	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	96	320691	50.0	48.3	
71 1,4-Dioxane	88	6.632	6.632	0.000	96	93590	1000.0	952.2	
72 Dibromomethane	93	6.660	6.660	0.000	96	184467	50.0	49.5	
73 Dichlorobromomethane	83	6.800	6.799	0.001	98	400690	50.0	49.4	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	93	162273	50.0	51.6	
76 cis-1,3-Dichloropropene	75	7.177	7.176	0.001	93	478600	50.0	46.5	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	98	1345936	200.0	206.9	
80 Toluene	91	7.484	7.484	0.000	98	1265300	50.0	48.9	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	96	473996	50.0	48.9	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	428574	50.0	51.0	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	91	266314	50.0	51.0	
89 Tetrachloroethene	164	7.959	7.959	0.000	97	216926	50.0	47.5	
90 1,3-Dichloropropane	76	8.015	8.014	0.001	97	482522	50.0	51.3	
91 2-Hexanone	43	8.043	8.042	0.001	98	963859	200.0	201.6	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	277085	50.0	50.2	
95 Ethylene Dibromide	107	8.350	8.350	0.000	98	273304	50.0	48.7	
96 1-Chlorohexane	91	8.755	8.755	0.000	98	303105	40.0	41.5	
97 Chlorobenzene	112	8.797	8.797	0.000	92	780206	50.0	47.1	
98 Ethylbenzene	106	8.881	8.880	0.001	99	429788	50.0	46.8	
99 1,1,1,2-Tetrachloroethane	131	8.881	8.880	0.001	43	277063	50.0	49.2	
100 m-Xylene & p-Xylene	106	8.992	9.006	-0.014	0	545835	50.0	50.0	
101 o-Xylene	106	9.369	9.369	0.000	97	531289	50.0	47.0	
103 Styrene	104	9.383	9.383	0.000	94	941063	50.0	49.4	
104 Bromoform	173	9.579	9.579	0.000	95	191159	50.0	48.7	
105 Isopropylbenzene	105	9.719	9.718	0.001	97	1319280	50.0	47.7	
107 Cyclohexanone	55	9.830	9.830	0.000	95	579671	1500.0	1308.7	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	94	356777	50.0	50.0	
109 Bromobenzene	156	10.054	10.054	0.000	97	325882	50.0	47.4	
110 trans-1,4-Dichloro-2-butene	53	10.054	10.054	0.000	83	118065	50.0	48.6	
111 1,2,3-Trichloropropane	110	10.082	10.081	0.001	85	113188	50.0	47.9	
112 N-Propylbenzene	120	10.138	10.137	0.001	99	351948	50.0	46.8	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	313968	50.0	47.5	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	95	1092607	50.0	46.7	
115 4-Chlorotoluene	126	10.347	10.347	0.000	99	330056	50.0	50.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	883729	50.0	50.6	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	1133906	50.0	49.5	
118 sec-Butylbenzene	134	10.850	10.850	0.000	94	241478	50.0	47.3	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	604813	50.0	50.8	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1053029	50.0	49.2	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	625073	50.0	48.5	
124 n-Butylbenzene	91	11.394	11.408	-0.014	98	942427	50.0	51.3	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	569843	50.0	47.5	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	87	77983	50.0	46.6	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	330416	50.0	49.6	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	97	121738	50.0	45.7	
130 Naphthalene	128	13.322	13.322	0.000	98	1006077	50.0	49.2	
132 1,2,3-Trichlorobenzene	180	13.545	13.559	-0.014	95	274608	50.0	45.1	
S 147 1,2-Dichloroethene, Total (URS)	95				0		100.0	101.8	
S 154 1,3-Dichloropropene, Total	1				0		100.0	95.5	
S 153 1,2-Dichloroethene, Total	1				0		100.0	101.8	
S 152 Trihalomethanes, Total	1				0		200.0	200.0	
S 150 Xylenes, Total (URS)	1				0		100.0	97.0	
S 148 Xylenes, Total	106				0		100.0	97.0	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

MV-Gas B_00142

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2685.D

Injection Date: 01-Aug-2023 13:03:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: icv

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

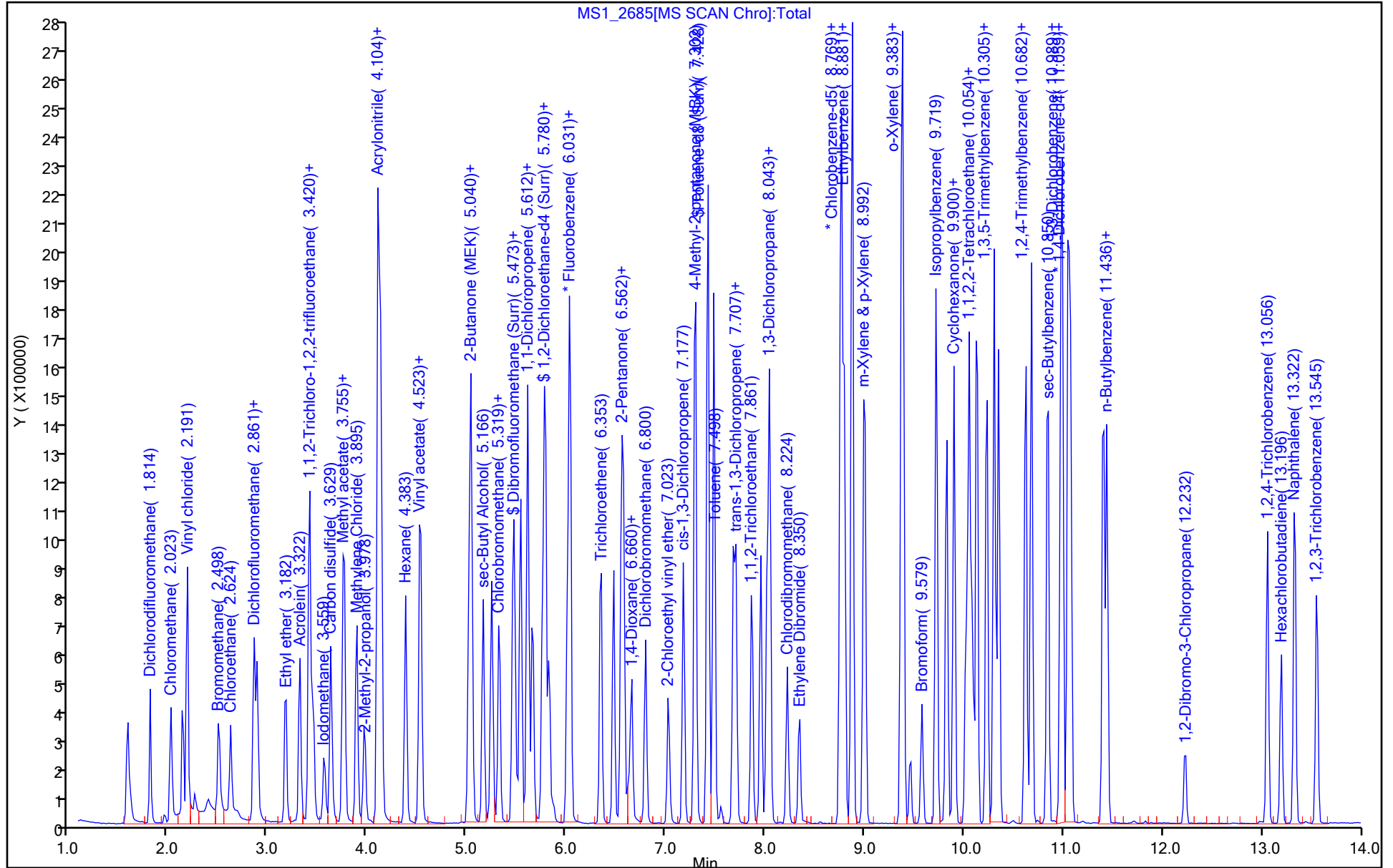
ALS Bottle#: 13

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: CCV 280-621922/2 Calibration Date: 08/04/2023 18:19

Instrument ID: VMS_MS1 Calib Start Date: 08/01/2023 09:52

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 08/01/2023 12:42

Lab File ID: MS1_2876.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.1857	0.1000	47.7	50.0	-4.6	20.0
Chloromethane	Lin2		0.2232	0.1000	48.2	50.0	-3.6	20.0
Vinyl chloride	Lin2		0.2166	0.0100	51.0	50.0	1.9	20.0
Bromomethane	Lin2		0.1101	0.0100	39.7	50.0	-20.6*	20.0
Chloroethane	Lin2		0.1327	0.0100	49.3	50.0	-1.5	20.0
Dichlorofluoromethane	Lin2		0.3161	0.0100	50.1	50.0	0.3	20.0
Trichlorofluoromethane	Ave	0.2687	0.2552	0.0100	47.5	50.0	-5.0	20.0
Ethyl ether	Ave	0.1816	0.1717	0.0100	47.3	50.0	-5.4	20.0
Acrolein	Ave	0.0324	0.0314	0.0010	478	494	-3.2	20.0
1,1-Dichloroethene	Ave	0.1776	0.1592	0.0600	44.8	50.0	-10.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1216	0.1230	0.0500	50.6	50.0	1.1	20.0
Acetone	Lin2		0.0819	0.0100	219	200	9.5	20.0
Iodomethane	Ave	0.1992	0.1740	0.0100	43.7	50.0	-12.6	20.0
Carbon disulfide	Ave	0.6132	0.5391	0.1000	44.0	50.0	-12.1	20.0
Methyl acetate	Ave	0.1842	0.1788	0.0100	97.0	100	-3.0	20.0
Allyl chloride	Lin2		0.3254	0.0100	51.1	50.0	2.3	20.0
Methylene Chloride	Lin2		0.2022	0.0100	50.6	50.0	1.3	20.0
2-Methyl-2-propanol	Ave	0.0249	0.0247	0.0010	497	500	-0.6	20.0
Acrylonitrile	Ave	0.0933	0.0927	0.0100	497	500	-0.7	20.0
Methyl tert-butyl ether	Ave	0.5792	0.5916	0.1000	51.1	50.0	2.1	20.0
trans-1,2-Dichloroethene	Lin2		0.1875	0.1000	49.2	50.0	-1.7	20.0
Hexane	Ave	0.9241	0.8995	0.0100	48.7	50.0	-2.7	20.0
Vinyl acetate	Ave	0.3488	0.4429	0.0100	127	100	27.0*	20.0
1,1-Dichloroethane	Lin2		0.3591	0.1000	48.3	50.0	-3.4	20.0
2-Butanone (MEK)	Ave	0.1159	0.1222	0.0100	211	200	5.5	20.0
2,2-Dichloropropane	Lin2		0.3109	0.0100	50.8	50.0	1.6	20.0
cis-1,2-Dichloroethene	Lin2		0.2102	0.1000	49.6	50.0	-0.8	20.0
sec-Butyl Alcohol	Ave	0.0198	0.0198	0.0100	1200	1200	-0.3	20.0
Chlorobromomethane	Lin2		0.0846	0.0500	49.9	50.0	-0.3	20.0
Tetrahydrofuran	Ave	0.0772	0.0737	0.0010	95.4	100	-4.6	20.0
Chloroform	Lin2		0.3397	0.2000	50.6	50.0	1.3	20.0
1,1,1-Trichloroethane	Lin2		0.2841	0.0500	49.2	50.0	-1.6	20.0
Cyclohexane	Ave	0.3387	0.3309	0.0100	48.9	50.0	-2.3	20.0
1,1-Dichloropropene	Ave	0.2888	0.2719	0.0100	47.1	50.0	-5.8	20.0
Carbon tetrachloride	Ave	0.2482	0.2217	0.1000	44.7	50.0	-10.7	20.0
Isobutyl alcohol	Ave	0.0082	0.0082	0.0010	1250	1250	0.2	20.0
Benzene	Ave	0.8912	0.8136	0.2000	45.7	50.0	-8.7	20.0
1,2-Dichloroethane	Ave	0.2963	0.2768	0.0700	46.7	50.0	-6.6	20.0
n-Heptane	Lin1		0.2028		50.2	50.0	0.4	
Trichloroethene	Lin2		0.7892	0.2000	47.8	50.0	-4.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: CCV 280-621922/2 Calibration Date: 08/04/2023 18:19

Instrument ID: VMS_MS1 Calib Start Date: 08/01/2023 09:52

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 08/01/2023 12:42

Lab File ID: MS1_2876.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Ave	0.1685	0.1754	0.0010	166	160	4.1	20.0
Methylcyclohexane	Ave	0.2253	0.2337	0.0500	51.9	50.0	3.7	20.0
1,2-Dichloropropane	Ave	0.2252	0.2053	0.1000	45.6	50.0	-8.8	20.0
1,4-Dioxane	Lin2		0.0032	0.0010	965	1000	-3.5	20.0
Dibromomethane	Ave	0.1265	0.1194	0.0100	47.2	50.0	-5.6	20.0
Dichlorobromomethane	Ave	0.2749	0.2530	0.2000	46.0	50.0	-8.0	20.0
2-Chloroethyl vinyl ether	Ave	0.1065	0.1050	0.0100	49.3	50.0	-1.5	20.0
cis-1,3-Dichloropropene	Ave	1.424	1.291	0.2000	45.3	50.0	-9.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2205	0.2198	0.0300	199	200	-0.3	20.0
Toluene	Lin2		0.8457	0.3000	48.2	50.0	-3.7	20.0
trans-1,3-Dichloropropene	Ave	0.3285	0.3042	0.2000	46.3	50.0	-7.4	20.0
Ethyl methacrylate	Ave	1.164	1.081	0.0100	46.4	50.0	-7.1	20.0
1,1,2-Trichloroethane	Ave	0.1771	0.1703	0.1000	48.1	50.0	-3.9	20.0
Tetrachloroethene	Ave	0.6318	0.5624	0.1000	44.5	50.0	-11.0	20.0
1,3-Dichloropropane	Ave	1.303	1.273	0.0100	48.8	50.0	-2.3	20.0
2-Hexanone	Ave	0.6622	0.6336	0.0100	191	200	-4.3	20.0
Chlorodibromomethane	Ave	0.7638	0.6671	0.1000	43.7	50.0	-12.7	20.0
1,2-Dibromoethane	Ave	0.7766	0.7215	0.1000	46.5	50.0	-7.1	20.0
1-Chlorohexane	Lin2		1.040	0.0100	41.1	40.0	2.8	20.0
Chlorobenzene	Ave	2.293	2.071	0.3000	45.1	50.0	-9.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7799	0.6879	0.0100	44.1	50.0	-11.8	20.0
Ethylbenzene	Ave	1.271	1.148	0.3000	45.1	50.0	-9.7	20.0
m-Xylene & p-Xylene	Lin2		1.445	0.1000	47.8	50.0	-4.4	20.0
o-Xylene	Ave	1.566	1.411	0.2000	45.1	50.0	-9.8	20.0
Styrene	Ave	2.636	2.417	0.2000	45.8	50.0	-8.3	20.0
Bromoform	Ave	0.5439	0.4440	0.1000	40.8	50.0	-18.4	20.0
Isopropylbenzene	Ave	2.430	2.215	0.3000	45.6	50.0	-8.9	20.0
Cyclohexanone	Ave	0.0613	0.0637	0.0010	1560	1500	3.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6259	0.6214	0.3000	49.6	50.0	-0.7	20.0
Bromobenzene	Ave	0.6036	0.5394	0.0100	44.7	50.0	-10.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2132	0.1911	0.0100	44.8	50.0	-10.4	20.0
1,2,3-Trichloropropane	Ave	0.2077	0.1829	0.0100	44.0	50.0	-11.9	20.0
N-Propylbenzene	Ave	0.6596	0.5960	0.0100	45.2	50.0	-9.6	20.0
2-Chlorotoluene	Ave	0.5799	0.5302	0.0100	45.7	50.0	-8.6	20.0
1,3,5-Trimethylbenzene	Ave	2.053	1.864	0.0100	45.4	50.0	-9.2	20.0
4-Chlorotoluene	Lin2		0.5542	0.0100	48.6	50.0	-2.8	20.0
tert-Butylbenzene	Lin2		1.483	0.0100	48.4	50.0	-3.3	20.0
1,2,4-Trimethylbenzene	Lin2		1.957	0.3000	48.7	50.0	-2.7	20.0
sec-Butylbenzene	Ave	0.4481	0.4157	0.0100	46.4	50.0	-7.2	20.0
1,3-Dichlorobenzene	Lin2		1.015	0.5000	48.6	50.0	-2.9	20.0
4-Isopropyltoluene	Lin2		1.846	0.0100	49.1	50.0	-1.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621922/2 Calibration Date: 08/04/2023 18:19
 Instrument ID: VMS_MS1 Calib Start Date: 08/01/2023 09:52
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 08/01/2023 12:42
 Lab File ID: MS1_2876.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Ave	1.131	1.026	0.5000	45.3	50.0	-9.3	20.0
n-Butylbenzene	Lin2		1.637	0.0100	50.8	50.0	1.5	20.0
1,2-Dichlorobenzene	Ave	1.052	0.9511	0.5000	45.2	50.0	-9.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1470	0.1233	0.0100	41.9	50.0	-16.1	20.0
1,2,4-Trichlorobenzene	Lin2		0.5483	0.2000	46.9	50.0	-6.2	20.0
Hexachlorobutadiene	Ave	0.2341	0.2015	0.0100	43.0	50.0	-13.9	20.0
Naphthalene	Lin1		1.647	0.0100	45.9	50.0	-8.3	20.0
1,2,3-Trichlorobenzene	Lin2		0.4715	0.3000	44.1	50.0	-11.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2474	0.2446	0.0100	49.4	50.0	-1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3117	0.3209	0.0100	51.5	50.0	2.9	20.0
Toluene-d8 (Surr)	Ave	4.113	4.134	0.0100	50.2	50.0	0.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.996	1.013	0.0100	50.9	50.0	1.7	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\VMS1_2876.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 04-Aug-2023 18:19:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub164
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 00:10:30 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1601

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1383351	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	88	345471	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.059	0.000	96	542111	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	92	338339	50.0	49.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	443853	50.0	51.5	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1428175	50.0	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	84	549158	50.0	50.9	
9 Dichlorodifluoromethane	85	1.814	1.814	0.000	99	256854	50.0	47.7	
10 Chloromethane	50	2.023	2.023	0.000	99	308794	50.0	48.2	
11 Vinyl chloride	62	2.149	2.149	0.000	98	299598	50.0	51.0	
13 Bromomethane	94	2.470	2.470	0.000	92	152253	50.0	39.7	
14 Chloroethane	64	2.610	2.610	0.000	99	183586	50.0	49.3	
15 Dichlorofluoromethane	67	2.847	2.847	0.000	98	437305	50.0	50.1	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	353095	50.0	47.5	
18 Ethyl ether	59	3.168	3.168	0.000	94	237571	50.0	47.3	
20 Acrolein	56	3.322	3.322	0.000	99	428798	493.8	478.1	
22 1,1-Dichloroethene	96	3.406	3.406	0.000	97	220261	50.0	44.8	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	3.420	3.420	0.000	93	170144	50.0	50.6	
23 Acetone	43	3.462	3.462	0.000	98	453240	200.0	218.9	
24 Iodomethane	142	3.559	3.559	0.000	98	240675	50.0	43.7	
26 Carbon disulfide	76	3.629	3.629	0.000	100	745759	50.0	44.0	
28 Methyl acetate	43	3.755	3.755	0.000	98	494633	100.0	97.0	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	89	450176	50.0	51.1	
30 Methylene Chloride	84	3.895	3.895	0.000	94	279671	50.0	50.6	
31 2-Methyl-2-propanol	59	3.978	3.978	0.000	99	342302	500.0	496.9	
32 Acrylonitrile	53	4.104	4.104	0.000	97	1282028	500.0	496.7	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	96	818357	50.0	51.1	
34 trans-1,2-Dichloroethene	96	4.132	4.132	0.000	97	259326	50.0	49.2	
36 Hexane	57	4.383	4.383	0.000	95	310758	50.0	48.7	
38 Vinyl acetate	43	4.523	4.523	0.000	97	1225461	100.0	127.0	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	496784	50.0	48.3	
44 2-Butanone (MEK)	43	5.012	5.012	0.000	100	676133	200.0	210.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
46 2,2-Dichloropropane	77	5.040	5.040	0.000	89	430141	50.0	50.8	
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	84	290728	50.0	49.6	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	656706	1200.0	1195.9	
52 Tetrahydrofuran	42	5.249	5.249	0.000	88	203813	100.0	95.4	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	116996	50.0	49.9	
53 Chloroform	83	5.319	5.319	0.000	94	469982	50.0	50.6	
54 1,1,1-Trichloroethane	97	5.473	5.473	0.000	98	392970	50.0	49.2	
57 Cyclohexane	56	5.543	5.543	0.000	92	457818	50.0	48.9	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	93	376160	50.0	47.1	
59 Carbon tetrachloride	117	5.612	5.612	0.000	83	306674	50.0	44.7	
60 Isobutyl alcohol	41	5.668	5.668	0.000	94	284234	1250.0	1251.9	
61 Benzene	78	5.780	5.780	0.000	98	1125563	50.0	45.7	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	98	382948	50.0	46.7	
64 n-Heptane	43	6.003	6.003	0.000	96	280526	50.0	50.2	
66 Trichloroethene	95	6.353	6.353	0.000	98	272656	50.0	47.8	
67 2-Pentanone	43	6.478	6.478	0.000	99	776391	160.0	166.5	
68 Methylcyclohexane	55	6.548	6.548	0.000	95	323290	50.0	51.9	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	95	283998	50.0	45.6	
71 1,4-Dioxane	88	6.632	6.632	0.000	96	88957	1000.0	964.9	
72 Dibromomethane	93	6.660	6.660	0.000	95	165232	50.0	47.2	
73 Dichlorobromomethane	83	6.800	6.800	0.000	99	349996	50.0	46.0	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	92	145192	50.0	49.3	
76 cis-1,3-Dichloropropene	75	7.177	7.177	0.000	93	446053	50.0	45.3	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	98	1216158	200.0	199.3	
80 Toluene	91	7.484	7.484	0.000	98	1169847	50.0	48.2	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	96	420848	50.0	46.3	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	373423	50.0	46.4	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	92	235549	50.0	48.1	
89 Tetrachloroethene	164	7.959	7.959	0.000	96	194276	50.0	44.5	
90 1,3-Dichloropropane	76	8.015	8.015	0.000	97	439777	50.0	48.8	
91 2-Hexanone	43	8.043	8.043	0.000	97	875573	200.0	191.4	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	230465	50.0	43.7	
95 Ethylene Dibromide	107	8.350	8.350	0.000	98	249246	50.0	46.5	
96 1-Chlorohexane	91	8.755	8.755	0.000	98	287411	40.0	41.1	
97 Chlorobenzene	112	8.797	8.797	0.000	92	715384	50.0	45.1	
98 Ethylbenzene	106	8.880	8.880	0.000	99	396489	50.0	45.1	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	237661	50.0	44.1	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	499296	50.0	47.8	
101 o-Xylene	106	9.369	9.369	0.000	97	487617	50.0	45.1	
103 Styrene	104	9.383	9.383	0.000	95	834946	50.0	45.8	
104 Bromoform	173	9.579	9.579	0.000	95	153372	50.0	40.8	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	1200530	50.0	45.6	
107 Cyclohexanone	55	9.830	9.830	0.000	95	660159	1500.0	1557.6	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	94	336885	50.0	49.6	
109 Bromobenzene	156	10.054	10.054	0.000	97	292409	50.0	44.7	
110 trans-1,4-Dichloro-2-butene	53	10.054	10.054	0.000	78	103616	50.0	44.8	
111 1,2,3-Trichloropropane	110	10.082	10.082	0.000	86	99139	50.0	44.0	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	323089	50.0	45.2	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	287402	50.0	45.7	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	1010538	50.0	45.4	
115 4-Chlorotoluene	126	10.347	10.347	0.000	99	300434	50.0	48.6	
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	803761	50.0	48.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	1061138	50.0	48.7	
118 sec-Butylbenzene	134	10.850	10.850	0.000	95	225371	50.0	46.4	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	550179	50.0	48.6	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1000760	50.0	49.1	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	555963	50.0	45.3	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	887307	50.0	50.8	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	515597	50.0	45.2	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	81	66836	50.0	41.9	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	297255	50.0	46.9	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	98	109211	50.0	43.0	
130 Naphthalene	128	13.336	13.336	0.000	97	892720	50.0	45.9	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	96	255599	50.0	44.1	
S 147 1,2-Dichloroethene, Total (URS)	95				0		100.0	98.7	
S 154 1,3-Dichloropropene, Total	1				0		100.0	91.6	
S 153 1,2-Dichloroethene, Total	1				0		100.0	98.7	
S 152 Trihalomethanes, Total	1				0		200.0	181.1	
S 151 Total BTEX	1				0			231.9	
S 150 Xylenes, Total (URS)	1				0		100.0	92.9	
S 148 Xylenes, Total	106				0		100.0	92.9	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00161

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 00:10:30

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2876.D

Injection Date: 04-Aug-2023 18:19:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

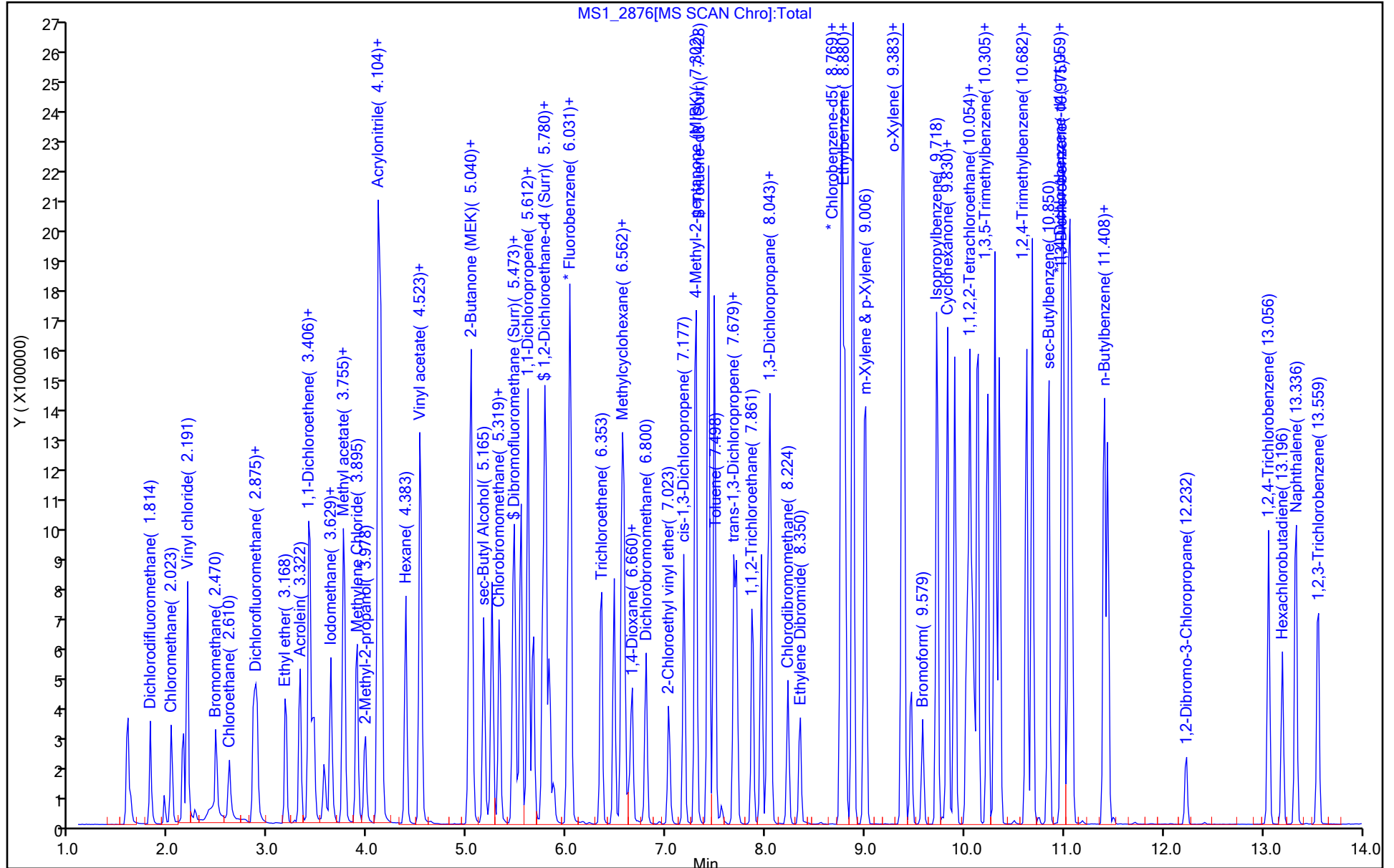
ALS Bottle#: 1

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621922/3 Calibration Date: 08/04/2023 18:40
 Instrument ID: VMS_MS1 Calib Start Date: 12/28/2022 11:59
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 12/28/2022 14:33
 Lab File ID: MS1_2877.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0035	0.0034*	0.0100	1450	1500	-3.5	20.0
Isopropyl alcohol	Ave	0.0168	0.0148	0.0100	220	250	-11.9	20.0
Acetonitrile	Ave	0.0400	0.0344	0.0100	215	250	-14.2	20.0
Isopropyl ether	Ave	0.1639	0.1480	0.0100	22.6	25.0	-9.7	20.0
Chloroprene	Ave	0.3120	0.3087	0.0100	24.7	25.0	-1.1	20.0
Tert-butyl ethyl ether	Ave	0.6150	0.5681	0.0100	23.1	25.0	-7.6	20.0
Ethyl acetate	Lin2		0.2576	0.0100	52.7	50.0	5.4	20.0
Propionitrile	Ave	0.0404	0.0335	0.0100	207	250	-17.0	20.0
Methacrylonitrile	Ave	0.1568	0.1336	0.0100	213	250	-14.8	20.0
Tert-amyl methyl ether	Ave	0.5682	0.5085	0.0100	22.4	25.0	-10.5	20.0
n-Butanol	Ave	0.0060	0.0050*	0.0100	518	625	-17.1	20.0
Methyl methacrylate	Ave	0.0634	0.0557	0.0100	43.9	50.0	-12.3	20.0
2-Nitropropane	Lin1		0.0563	0.0100	52.1	50.0	4.2	20.0
cis-1,4-Dichloro-2-butene	Ave	0.1861	0.1691	0.0100	45.4	50.0	-9.1	20.0
1,2,3-Trimethylbenzene	Ave	2.095	1.898	0.0100	22.6	25.0	-9.4	20.0
1,3,5-Trichlorobenzene	Ave	0.6831	0.5812	0.0100	21.3	25.0	-14.9	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\VMS1_2877.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 04-Aug-2023 18:40:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lccv s
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub197
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 00:17:48 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1601

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1362149	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	335286	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	97	524295	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	331228	50.0	49.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	433249	50.0	51.0	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1384679	50.0	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	84	531884	50.0	50.9	
17 Ethanol	45	3.084	3.084	0.000	100	138519	1500.0	1447.0	
25 Isopropyl alcohol	45	3.587	3.587	0.000	98	101025	250.0	220.2	
27 Acetonitrile	41	3.727	3.727	0.000	100	234014	250.0	214.6	
40 Isopropyl ether	87	4.551	4.551	0.000	94	100782	25.0	22.6	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	93	210220	25.0	24.7	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	99	386896	25.0	23.1	
47 Ethyl acetate	43	5.040	5.040	0.000	99	350878	50.0	52.7	
48 Propionitrile	54	5.082	5.082	0.000	99	228217	250.0	207.4	
50 Methacrylonitrile	41	5.207	5.207	0.000	94	909794	250.0	213.0	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	95	346331	25.0	22.4	
65 n-Butanol	56	6.227	6.227	0.000	90	84987	625.0	517.8	
70 Methyl methacrylate	100	6.590	6.590	0.000	92	75814	50.0	43.9	
74 2-Nitropropane	41	6.981	6.981	0.000	99	76653	50.0	52.1	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	88652	50.0	45.4	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	98	497473	25.0	22.6	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	97	152348	25.0	21.3	
142 Ethyl acrylate	55		0.000				ND	ND	
135 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 00:17:49

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2877.D

Injection Date: 04-Aug-2023 18:40:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

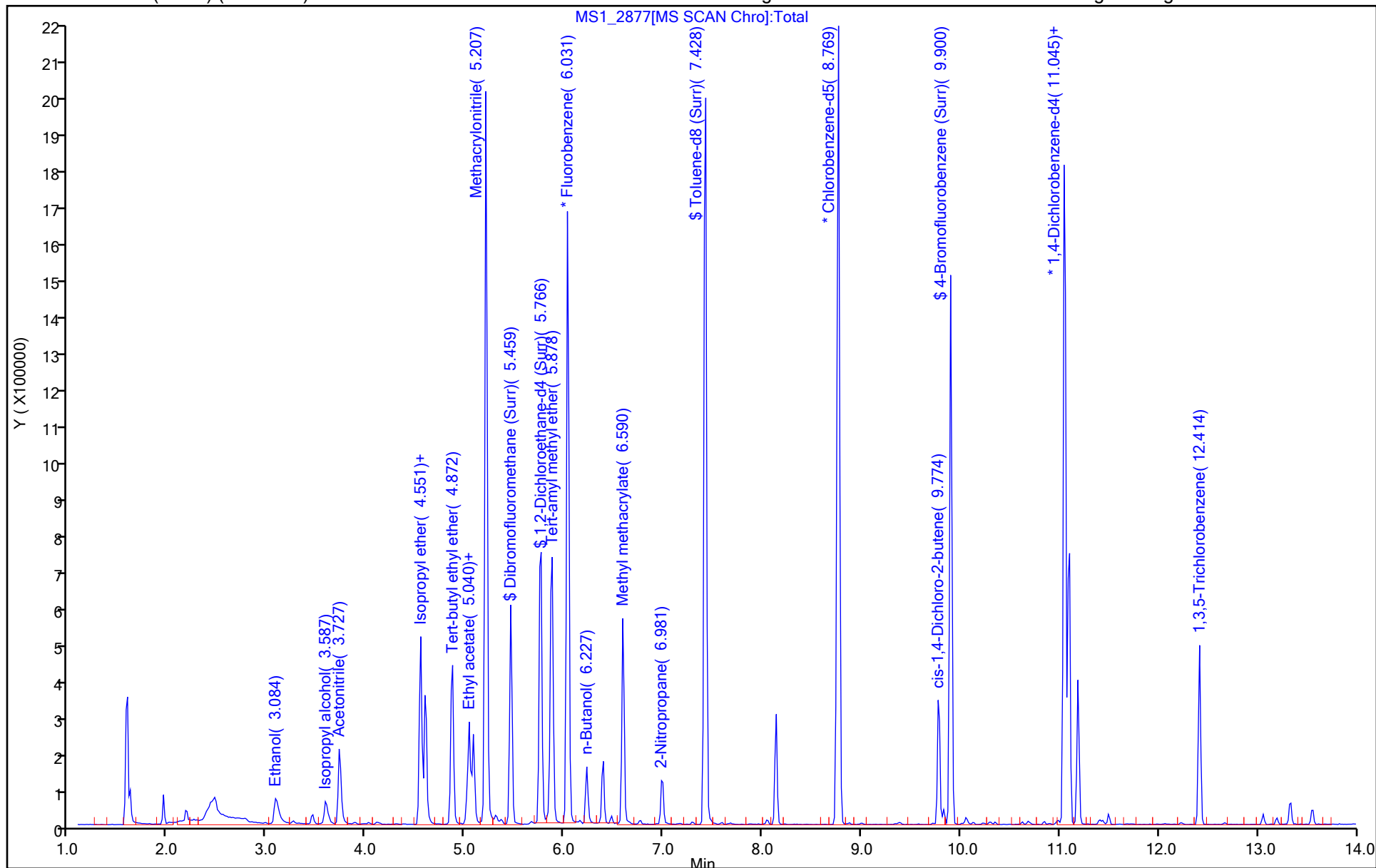
ALS Bottle#: 2

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab Sample ID: CCV 280-621922/3 Calibration Date: 08/04/2023 18:40
Instrument ID: VMS_MS1 Calib Start Date: 08/01/2023 09:52
GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 08/01/2023 12:42
Lab File ID: MS1_2877.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2474	0.2432	0.0100	49.2	50.0	-1.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3117	0.3181	0.0100	51.0	50.0	2.0	20.0
Toluene-d8 (Surr)	Ave	4.113	4.130	0.0100	50.2	50.0	0.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.996	1.014	0.0100	50.9	50.0	1.9	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\VMS1_2877.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 04-Aug-2023 18:40:30 ALS Bottle#: 2 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lccv s
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Sublist: chrom-AQ_VMS1_8260*sub197
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 00:17:48 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1601

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1362149	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	335286	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	97	524295	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	331228	50.0	49.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	433249	50.0	51.0	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1384679	50.0	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	84	531884	50.0	50.9	
17 Ethanol	45	3.084	3.084	0.000	100	138519	1500.0	1447.0	
25 Isopropyl alcohol	45	3.587	3.587	0.000	98	101025	250.0	220.2	
27 Acetonitrile	41	3.727	3.727	0.000	100	234014	250.0	214.6	
40 Isopropyl ether	87	4.551	4.551	0.000	94	100782	25.0	22.6	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	93	210220	25.0	24.7	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	99	386896	25.0	23.1	
47 Ethyl acetate	43	5.040	5.040	0.000	99	350878	50.0	52.7	
48 Propionitrile	54	5.082	5.082	0.000	99	228217	250.0	207.4	
50 Methacrylonitrile	41	5.207	5.207	0.000	94	909794	250.0	213.0	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	95	346331	25.0	22.4	
65 n-Butanol	56	6.227	6.227	0.000	90	84987	625.0	517.8	
70 Methyl methacrylate	100	6.590	6.590	0.000	92	75814	50.0	43.9	
74 2-Nitropropane	41	6.981	6.981	0.000	99	76653	50.0	52.1	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	88652	50.0	45.4	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	98	497473	25.0	22.6	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	97	152348	25.0	21.3	
142 Ethyl acrylate	55		0.000				ND	ND	
135 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 00:17:49

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2877.D

Injection Date: 04-Aug-2023 18:40:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

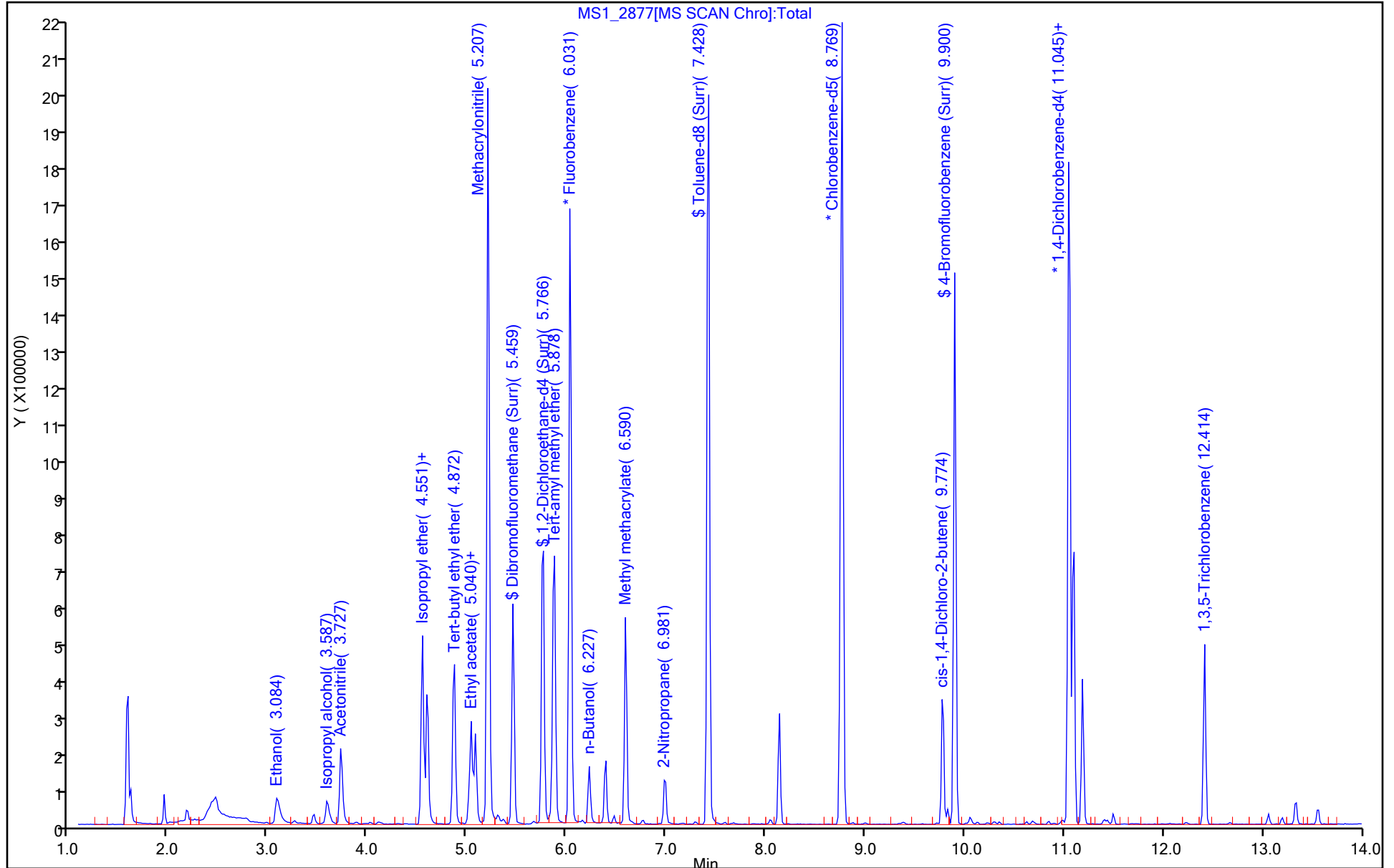
ALS Bottle#: 2

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: ICV 280-616689/29 Calibration Date: 06/19/2023 14:43
 Instrument ID: VMS_MS11 Calib Start Date: 06/19/2023 11:51
 GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 06/19/2023 14:22
 Lab File ID: ms11_8004.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0036	0.0031*	0.0100	2540	3000	-15.3	30.0
Isopropyl alcohol	Lin2		0.0153	0.0100	461	500	-7.8	30.0
Acetonitrile	Ave	0.0371	0.0325	0.0100	438	500	-12.5	30.0
Isopropyl ether	Ave	0.2163	0.1992	0.0100	46.0	50.0	-7.9	30.0
Chloroprene	Ave	0.3714	0.3671	0.0100	49.4	50.0	-1.2	30.0
Tert-butyl ethyl ether	Ave	0.7901	0.7295	0.0100	46.2	50.0	-7.7	30.0
Ethyl acetate	Ave	0.2480	0.2278	0.0100	91.9	100	-8.1	30.0
Propionitrile	Ave	0.0381	0.0349	0.0100	457	500	-8.5	30.0
Methacrylonitrile	Ave	0.1502	0.1444	0.0100	481	500	-3.9	30.0
Tert-amyl methyl ether	Ave	0.7392	0.6787	0.0100	45.9	50.0	-8.2	30.0
n-Butanol	Ave	0.0081	0.0070*	0.0100	1080	1250	-13.7	30.0
Methyl methacrylate	Ave	0.0689	0.0664	0.0100	96.4	100	-3.6	30.0
2-Nitropropane	Ave	0.0623	0.0564	0.0100	90.4	100	-9.6	30.0
cis-1,4-Dichloro-2-butene	Ave	0.2464	0.2087	0.0100	84.7	100	-15.3	30.0
1,2,3-Trimethylbenzene	Ave	2.391	2.244	0.0100	46.9	50.0	-6.2	30.0
1,3,5-Trichlorobenzene	Ave	0.8400	0.7808	0.0100	46.5	50.0	-7.0	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8004.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 19-Jun-2023 14:43:30 ALS Bottle#: 20 Worklist Smp#: 29
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV S
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 20-Jun-2023 08:05:10 Calib Date: 19-Jun-2023 14:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1669

First Level Reviewer: BX8N

Date: 20-Jun-2023 08:00:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.081	0.001	98	2188520	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.567	0.001	88	530937	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	98	882126	50.0	50.0	
16 Ethanol	45	2.679	2.679	0.000	100	404787	3000.0	2540.9	
22 Isopropyl alcohol	45	3.057	3.057	0.000	98	335126	500.0	461.0	
25 Acetonitrile	41	3.182	3.182	0.000	99	710628	500.0	437.7	
36 Isopropyl ether	87	3.825	3.825	0.000	93	435861	50.0	46.0	
37 2-Chloro-1,3-butadiene	53	3.881	3.881	0.000	93	803409	50.0	49.4	
38 Tert-butyl ethyl ether	59	4.090	4.090	0.000	98	1596584	50.0	46.2	
40 Ethyl acetate	43	4.216	4.216	0.000	100	997290	100.0	91.9	
43 Propionitrile	54	4.258	4.258	0.000	99	763400	500.0	457.3	
45 Methacrylonitrile	41	4.369	4.369	0.000	92	3159807	500.0	480.6	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	90	1485415	50.0	45.9	
58 n-Butanol	56	5.207	5.221	-0.014	90	380366	1250.0	1079.3	
63 Methyl methacrylate	100	5.557	5.556	0.001	91	290580	100.0	96.4	
67 2-Nitropropane	41	5.906	5.906	0.000	98	246713	100.0	90.4	
89 cis-1,4-Dichloro-2-butene	53	8.531	8.531	0.000	0	368148	100.0	84.7	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	1979438	50.0	46.9	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	97	688779	50.0	46.5	
119 t-Amyl alcohol	1		0.000				ND	ND	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00082

Amount Added: 50.00

Units: uL

mv-Cent IS_00007

Amount Added: 5.00

Units: uL

Report Date: 20-Jun-2023 08:06:08

Chrom Revision: 2.3 05-Jun-2023 19:02:10

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8004.D

Injection Date: 19-Jun-2023 14:43:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: ICV

Worklist Smp#: 29

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

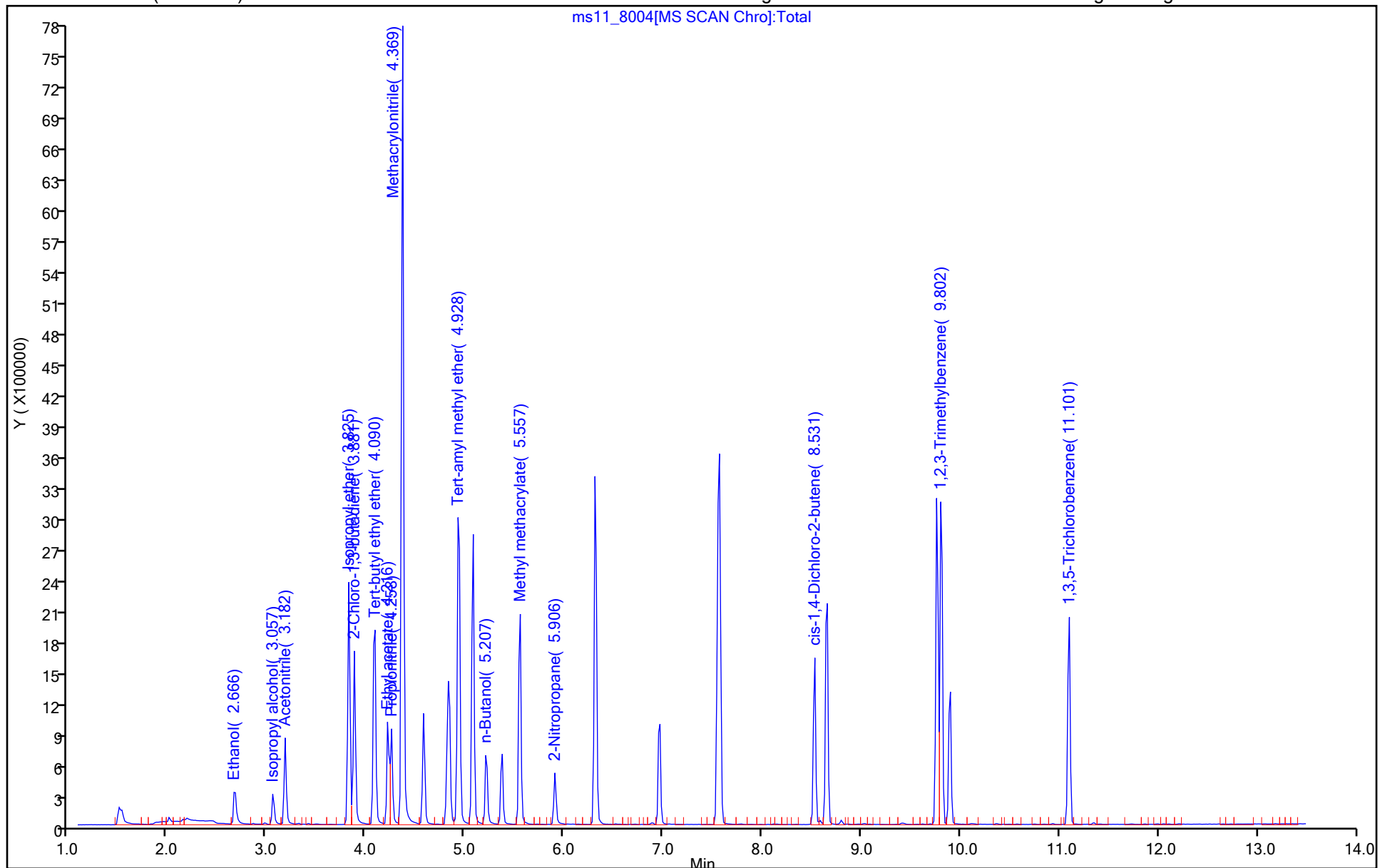
ALS Bottle#: 20

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: ICV 280-621390/22 Calibration Date: 08/01/2023 10:51

Instrument ID: VMS_MS11 Calib Start Date: 08/01/2023 07:39

GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 08/01/2023 10:30

Lab File ID: ms11_00000441.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2192	0.2470	0.1000	56.3	50.0	12.7	30.0
Chloromethane	Ave	0.3629	0.3353	0.1000	46.2	50.0	-7.6	30.0
Vinyl chloride	Ave	0.3278	0.3249	0.0100	49.6	50.0	-0.9	30.0
Bromomethane	Ave	0.1570	0.1258	0.0100	40.1	50.0	-19.9	30.0
Chloroethane	Ave	0.2306	0.2078	0.0100	45.1	50.0	-9.9	30.0
Dichlorofluoromethane	Ave	0.5854	0.5093	0.0100	43.5	50.0	-13.0	30.0
Trichlorofluoromethane	Ave	0.3726	0.3441	0.0100	46.2	50.0	-7.7	30.0
Ethyl ether	Ave	0.2296	0.2233	0.0100	48.6	50.0	-2.8	30.0
Acrolein	Ave	0.0388	0.0360	0.0010	458	494	-7.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1494	0.1483	0.0500	49.7	50.0	-0.7	30.0
1,1-Dichloroethene	Ave	0.2153	0.1966	0.0600	45.7	50.0	-8.7	30.0
Acetone	Lin1		0.0915	0.0100	207	200	3.6	30.0
Iodomethane	Lin1		0.2717	0.0100	50.9	50.0	1.8	30.0
Carbon disulfide	Lin1		0.6808	0.1000	48.1	50.0	-3.8	30.0
Methyl acetate	Ave	0.2237	0.2235	0.0100	99.9	100	-0.0	30.0
Allyl chloride	Ave	0.4490	0.4147	0.0100	46.2	50.0	-7.6	30.0
Methylene Chloride	Ave	0.2774	0.2558	0.0100	46.1	50.0	-7.8	30.0
2-Methyl-2-propanol	Ave	0.0315	0.0298	0.0010	472	500	-5.6	30.0
Acrylonitrile	Ave	0.1129	0.1107	0.0100	490	500	-1.9	30.0
Methyl tert-butyl ether	Ave	0.8031	0.7972	0.1000	49.6	50.0	-0.7	30.0
trans-1,2-Dichloroethene	Ave	0.2523	0.2396	0.1000	47.5	50.0	-5.0	30.0
Hexane	Ave	0.9575	0.9603	0.0100	50.1	50.0	0.3	30.0
Vinyl acetate	Ave	0.5788	0.5267	0.0100	91.0	100	-9.0	30.0
1,1-Dichloroethane	Ave	0.4767	0.4696	0.1000	49.3	50.0	-1.5	30.0
2-Butanone (MEK)	Lin2		0.1480	0.0100	199	200	-0.6	30.0
cis-1,2-Dichloroethene	Ave	0.2907	0.2687	0.1000	46.2	50.0	-7.6	30.0
2,2-Dichloropropane	Ave	0.4017	0.3751	0.0100	46.7	50.0	-6.6	30.0
sec-Butyl Alcohol	Ave	0.0265	0.0257	0.0100	1170	1200	-2.7	30.0
Chlorobromomethane	Ave	0.1391	0.1333	0.0500	47.9	50.0	-4.2	30.0
Tetrahydrofuran	Ave	0.0929	0.0940	0.0010	101	100	1.3	30.0
Chloroform	Ave	0.4628	0.4355	0.2000	47.1	50.0	-5.9	30.0
1,1,1-Trichloroethane	Ave	0.3875	0.3678	0.0500	47.5	50.0	-5.1	30.0
Cyclohexane	Ave	0.3805	0.3769	0.0100	49.5	50.0	-1.0	30.0
1,1-Dichloropropene	Ave	0.3640	0.3448	0.0100	47.4	50.0	-5.3	30.0
Carbon tetrachloride	Ave	0.3100	0.3002	0.1000	48.4	50.0	-3.2	30.0
Isobutyl alcohol	Ave	0.0148	0.0148	0.0010	1250	1250	0.0	30.0
Benzene	Ave	1.021	0.996	0.2000	48.8	50.0	-2.5	30.0
1,2-Dichloroethane	Ave	0.4041	0.3831	0.0700	47.4	50.0	-5.2	30.0
n-Heptane	Lin2		0.2330		49.2	50.0	-1.6	
Trichloroethene	Ave	0.2790	0.2652	0.2000	47.5	50.0	-4.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: ICV 280-621390/22 Calibration Date: 08/01/2023 10:51

Instrument ID: VMS_MS11 Calib Start Date: 08/01/2023 07:39

GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 08/01/2023 10:30

Lab File ID: ms11_00000441.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Lin2		0.2223	0.0010	163	160	1.9	30.0
Methylcyclohexane	Ave	0.2665	0.2591	0.0500	48.6	50.0	-2.8	30.0
1,2-Dichloropropane	Ave	0.2929	0.2791	0.1000	47.6	50.0	-4.7	30.0
1,4-Dioxane	Ave	0.0045	0.0040	0.0010	897	1000	-10.3	30.0
Dibromomethane	Ave	0.1791	0.1658	0.0100	46.3	50.0	-7.4	30.0
Dichlorobromomethane	Ave	0.3398	0.3307	0.2000	48.7	50.0	-2.7	30.0
2-Chloroethyl vinyl ether	Ave	0.1926	0.1914	0.0100	49.7	50.0	-0.6	30.0
cis-1,3-Dichloropropene	Ave	1.533	1.593	0.2000	51.9	50.0	3.9	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2801	0.2942	0.0300	210	200	5.0	30.0
Toluene	Ave	1.118	1.072	0.3000	47.9	50.0	-4.1	30.0
trans-1,3-Dichloropropene	Ave	0.4282	0.4132	0.2000	48.2	50.0	-3.5	30.0
Ethyl methacrylate	Ave	1.306	1.288	0.0100	49.3	50.0	-1.4	30.0
1,1,2-Trichloroethane	Ave	0.2413	0.2317	0.1000	48.0	50.0	-4.0	30.0
Tetrachloroethene	Ave	0.8193	0.7641	0.1000	46.6	50.0	-6.7	30.0
1,3-Dichloropropane	Ave	1.617	1.554	0.0100	48.0	50.0	-3.9	30.0
2-Hexanone	Ave	0.7363	0.7510	0.0100	204	200	2.0	30.0
Chlorodibromomethane	Ave	0.9153	0.9046	0.1000	49.4	50.0	-1.2	30.0
1,2-Dibromoethane	Ave	0.9171	0.8880	0.1000	48.4	50.0	-3.2	30.0
1-Chlorohexane	Lin2		1.131	0.0100	37.5	40.0	-6.3	30.0
Chlorobenzene	Ave	2.746	2.564	0.3000	46.7	50.0	-6.6	30.0
1,1,1,2-Tetrachloroethane	Ave	0.9219	0.8830	0.0100	47.9	50.0	-4.2	30.0
Ethylbenzene	Ave	1.466	1.379	0.3000	47.0	50.0	-5.9	30.0
m-Xylene & p-Xylene	Ave	3.548	3.446	0.1000	48.6	50.0	-2.9	30.0
o-Xylene	Ave	1.797	1.720	0.2000	47.9	50.0	-4.2	30.0
Styrene	Ave	2.983	2.955	0.2000	49.5	50.0	-0.9	30.0
Bromoform	Ave	0.6542	0.6251	0.1000	47.8	50.0	-4.4	30.0
Isopropylbenzene	Ave	2.408	2.230	0.3000	46.3	50.0	-7.4	30.0
Cyclohexanone	Ave	0.0653	0.0725	0.0010	1660	1500	11.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6726	0.6226	0.3000	46.3	50.0	-7.4	30.0
Bromobenzene	Ave	0.6890	0.6607	0.0100	47.9	50.0	-4.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2246	0.2206	0.0100	49.1	50.0	-1.8	30.0
1,2,3-Trichloropropane	Ave	0.2203	0.2025	0.0100	46.0	50.0	-8.1	30.0
N-Propylbenzene	Ave	0.6742	0.6309	0.0100	46.8	50.0	-6.4	30.0
2-Chlorotoluene	Ave	0.6065	0.5747	0.0100	47.4	50.0	-5.2	30.0
1,3,5-Trimethylbenzene	Ave	2.005	1.919	0.0100	47.9	50.0	-4.3	30.0
4-Chlorotoluene	Ave	0.6410	0.6041	0.0100	47.1	50.0	-5.8	30.0
tert-Butylbenzene	Ave	1.770	1.594	0.0100	45.0	50.0	-10.0	30.0
1,2,4-Trimethylbenzene	Ave	2.092	2.021	0.3000	48.3	50.0	-3.4	30.0
sec-Butylbenzene	Ave	0.4975	0.4639	0.0100	46.6	50.0	-6.8	30.0
1,3-Dichlorobenzene	Ave	1.300	1.174	0.5000	45.2	50.0	-9.7	30.0
4-Isopropyltoluene	Ave	2.105	1.990	0.0100	47.3	50.0	-5.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: ICV 280-621390/22 Calibration Date: 08/01/2023 10:51
 Instrument ID: VMS_MS11 Calib Start Date: 08/01/2023 07:39
 GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 08/01/2023 10:30
 Lab File ID: ms11_00000441.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Ave	1.350	1.215	0.5000	45.0	50.0	-10.0	30.0
n-Butylbenzene	Ave	1.809	1.683	0.0100	46.5	50.0	-7.0	30.0
1,2-Dichlorobenzene	Ave	1.230	1.130	0.5000	45.9	50.0	-8.1	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.1496	0.1428	0.0100	47.7	50.0	-4.6	30.0
1,2,4-Trichlorobenzene	Lin2		0.7581	0.2000	45.2	50.0	-9.5	30.0
Hexachlorobutadiene	Lin2		0.3041	0.0100	41.3	50.0	-17.3	30.0
Naphthalene	Lin1		1.963	0.0100	49.4	50.0	-1.2	30.0
1,2,3-Trichlorobenzene	Lin1		0.6586	0.3000	48.5	50.0	-2.9	30.0
Dibromofluoromethane (Surr)	Ave	0.2792	0.2790	0.0100	50.0	50.0	-0.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3599	0.3687	0.0100	51.2	50.0	2.4	30.0
Toluene-d8 (Surr)	Ave	4.032	4.008	0.0100	49.7	50.0	-0.6	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8601	0.8566	0.0100	49.8	50.0	-0.4	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000441.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 01-Aug-2023 10:51:30 ALS Bottle#: 13 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 11:42:21 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 11:33:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.081	5.068	0.013	98	1910286	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.567	7.568	-0.001	89	524251	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.774	9.760	0.014	94	953965	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	95	532977	50.0	50.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	704286	50.0	51.2	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	2101440	50.0	49.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.657	8.643	0.014	95	817173	50.0	49.8	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	471804	50.0	56.3	
10 Chloromethane	50	1.869	1.869	0.000	100	640600	50.0	46.2	
11 Vinyl chloride	62	1.981	1.981	0.000	98	620612	50.0	49.6	
12 Bromomethane	94	2.246	2.246	0.000	92	240369	50.0	40.1	
13 Chloroethane	64	2.344	2.344	0.000	99	397033	50.0	45.1	
14 Dichlorofluoromethane	67	2.526	2.512	0.014	97	972867	50.0	43.5	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	98	657327	50.0	46.2	
17 Ethyl ether	59	2.763	2.763	0.000	94	426488	50.0	48.6	
18 Acrolein	56	2.875	2.875	0.000	99	678969	493.8	457.7	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	66	283314	50.0	49.7	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	96	375493	50.0	45.7	
21 Acetone	43	2.973	2.973	0.000	99	699312	200.0	207.1	
23 Iodomethane	142	3.084	3.084	0.000	99	519009	50.0	50.9	
24 Carbon disulfide	76	3.140	3.140	0.000	100	1300588	50.0	48.1	
26 Methyl acetate	43	3.196	3.196	0.000	99	854053	100.0	99.9	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	89	792204	50.0	46.2	
28 Methylene Chloride	84	3.322	3.308	0.014	96	488676	50.0	46.1	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	99	568513	500.0	471.9	
30 Acrylonitrile	53	3.475	3.475	0.000	98	2115088	500.0	490.3	
31 Methyl tert-butyl ether	73	3.503	3.503	0.000	96	1522967	50.0	49.6	
32 trans-1,2-Dichloroethene	96	3.517	3.517	0.000	97	457715	50.0	47.5	
33 Hexane	57	3.699	3.699	0.000	96	503454	50.0	50.1	
34 Vinyl acetate	43	3.797	3.811	-0.014	98	2012387	100.0	91.0	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	96	897150	50.0	49.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 2-Butanone (MEK)	43	4.202	4.202	0.000	100	1130688	200.0	198.7	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	85	513349	50.0	46.2	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	91	716506	50.0	46.7	
44 sec-Butyl Alcohol	45	4.313	4.313	0.000	99	1180017	1200.0	1167.1	
46 Chlorobromomethane	128	4.411	4.411	0.000	97	254580	50.0	47.9	
47 Tetrahydrofuran	42	4.411	4.411	0.000	89	359301	100.0	101.3	
48 Chloroform	83	4.467	4.467	0.000	95	832022	50.0	47.1	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	99	702647	50.0	47.5	
50 Cyclohexane	56	4.663	4.663	-0.001	95	719895	50.0	49.5	
52 Carbon tetrachloride	117	4.718	4.718	0.000	96	573482	50.0	48.4	
51 1,1-Dichloropropene	75	4.718	4.718	0.000	95	658607	50.0	47.4	
53 Isobutyl alcohol	43	4.732	4.732	0.000	94	708767	1250.0	1250.9	
54 Benzene	78	4.872	4.872	0.000	98	1902263	50.0	48.8	
55 1,2-Dichloroethane	62	4.900	4.900	0.000	97	731801	50.0	47.4	
57 n-Heptane	43	5.054	5.054	0.000	95	445159	50.0	49.2	
59 Trichloroethene	130	5.347	5.347	0.000	97	506681	50.0	47.5	
60 2-Pentanone	43	5.445	5.445	0.000	98	1358858	160.0	163.1	
61 Methylcyclohexane	55	5.542	5.542	0.000	93	494910	50.0	48.6	
62 1,2-Dichloropropane	63	5.556	5.556	0.000	91	533219	50.0	47.6	
64 1,4-Dioxane	88	5.598	5.598	0.000	97	153292	1000.0	896.7	
65 Dibromomethane	93	5.626	5.626	0.000	93	316794	50.0	46.3	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	631798	50.0	48.7	
68 2-Chloroethyl vinyl ether	63	5.947	5.948	-0.001	93	365655	50.0	49.7	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	93	835084	50.0	51.9	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	98	2247907	200.0	210.1	
71 Toluene	91	6.380	6.367	0.014	98	2047699	50.0	47.9	
72 trans-1,3-Dichloropropene	75	6.548	6.548	0.000	99	789268	50.0	48.2	
73 Ethyl methacrylate	69	6.562	6.562	0.000	91	675406	50.0	49.3	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	93	442571	50.0	48.0	
75 Tetrachloroethene	164	6.813	6.813	0.000	98	400559	50.0	46.6	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	98	814515	50.0	48.0	
77 2-Hexanone	43	6.883	6.883	0.000	97	1574950	200.0	204.0	
78 Chlorodibromomethane	129	7.051	7.051	0.000	90	474227	50.0	49.4	
79 Ethylene Dibromide	107	7.176	7.177	-0.001	98	465527	50.0	48.4	
80 1-Chlorohexane	91	7.554	7.554	0.000	97	474295	40.0	37.5	
81 Chlorobenzene	112	7.595	7.596	-0.001	93	1343953	50.0	46.7	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	93	462931	50.0	47.9	
83 Ethylbenzene	106	7.679	7.679	0.000	99	722756	50.0	47.0	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	1806450	50.0	48.6	
85 o-Xylene	106	8.140	8.140	0.000	96	901934	50.0	47.9	
86 Styrene	104	8.154	8.168	-0.014	91	1549091	50.0	49.5	
87 Bromoform	173	8.336	8.350	-0.014	96	327725	50.0	47.8	
88 Isopropylbenzene	105	8.475	8.475	0.000	97	2127340	50.0	46.3	
90 Cyclohexanone	55	8.573	8.573	0.000	95	1140127	1500.0	1664.5	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	95	593947	50.0	46.3	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	62	210447	50.0	49.1	
92 Bromobenzene	156	8.797	8.797	0.000	96	630263	50.0	47.9	
94 1,2,3-Trichloropropane	110	8.824	8.825	-0.001	86	193208	50.0	46.0	
95 N-Propylbenzene	120	8.880	8.880	0.000	99	601840	50.0	46.8	
96 2-Chlorotoluene	126	8.978	8.978	0.000	97	548259	50.0	47.4	
97 1,3,5-Trimethylbenzene	105	9.048	9.048	0.000	94	1830336	50.0	47.9	
98 4-Chlorotoluene	126	9.090	9.090	0.000	97	576307	50.0	47.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
99 tert-Butylbenzene	119	9.355	9.355	0.000	94	1520665	50.0	45.0	
100 1,2,4-Trimethylbenzene	105	9.411	9.411	0.000	98	1927899	50.0	48.3	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	442520	50.0	46.6	
102 1,3-Dichlorobenzene	146	9.690	9.690	0.000	98	1119943	50.0	45.2	
103 4-Isopropyltoluene	119	9.704	9.704	0.000	97	1898391	50.0	47.3	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	94	1159368	50.0	45.0	
106 n-Butylbenzene	91	10.109	10.109	0.000	98	1605770	50.0	46.5	
107 1,2-Dichlorobenzene	146	10.151	10.151	0.000	98	1077947	50.0	45.9	
108 1,2-Dibromo-3-Chloropropane	157	10.919	10.919	0.000	87	136198	50.0	47.7	
110 1,2,4-Trichlorobenzene	180	11.729	11.730	-0.001	94	723216	50.0	45.2	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	95	290079	50.0	41.3	
112 Naphthalene	128	11.995	11.995	0.000	97	1872443	50.0	49.4	
113 1,2,3-Trichlorobenzene	180	12.218	12.218	0.000	95	628324	50.0	48.5	
S 122 Xylenes, Total	106				0		100.0	96.4	
S 123 1,2-Dichloroethene, Total	1				0		100.0	93.7	
S 124 1,3-Dichloropropene, Total	1				0		100.0	100.2	
S 125 Trihalomethanes, Total	1				0		200.0	192.9	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 01-Aug-2023 11:42:23

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000441.D

Injection Date: 01-Aug-2023 10:51:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: ICV

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

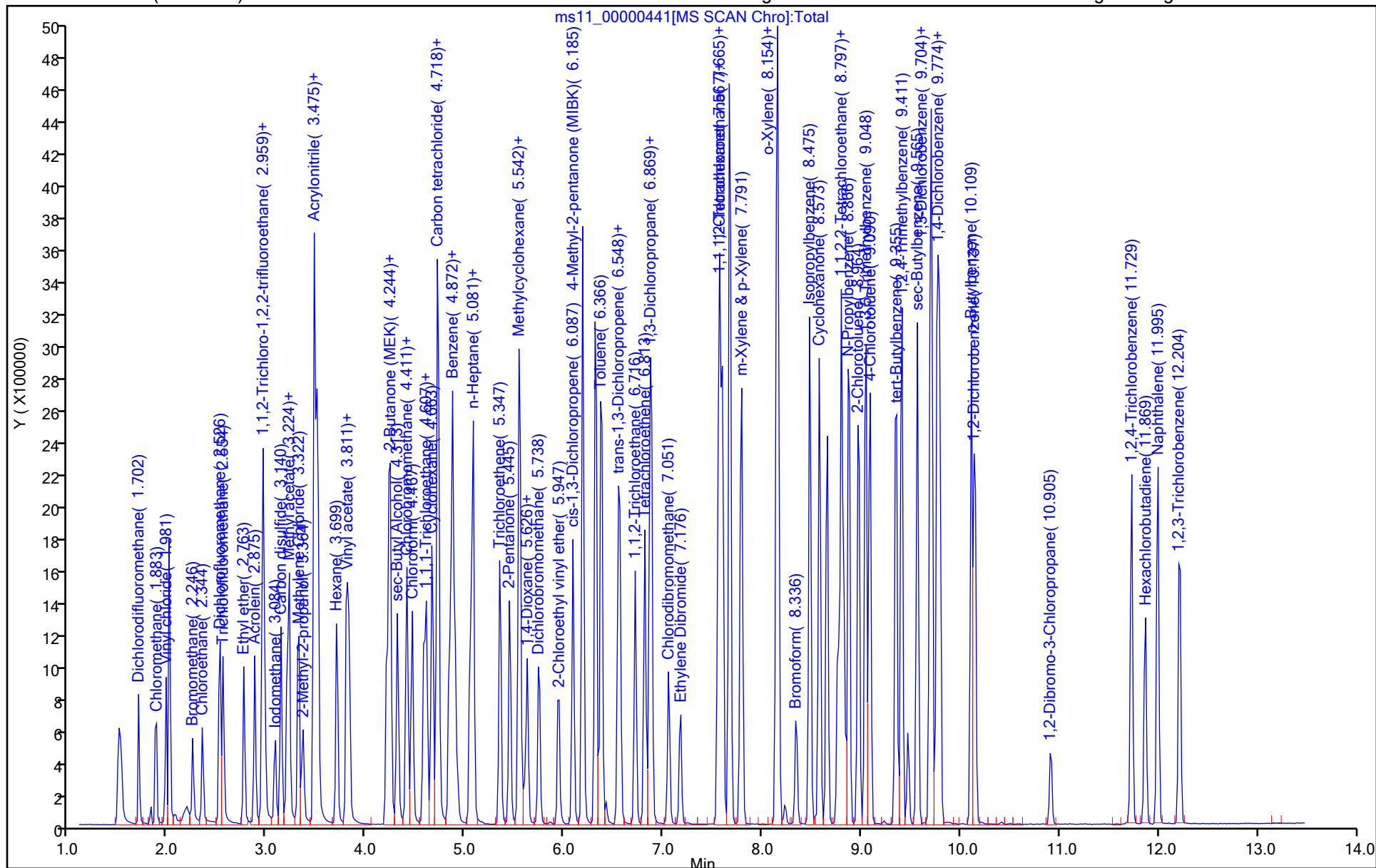
ALS Bottle#: 13

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621653/3 Calibration Date: 08/03/2023 06:24
 Instrument ID: VMS_MS11 Calib Start Date: 06/19/2023 11:51
 GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 06/19/2023 14:22
 Lab File ID: ms11_00000549.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Ave	0.0036	0.0050*	0.0100	2070	1500	38.2*	20.0
Isopropyl alcohol	Lin2		0.0203	0.0100	302	250	20.7*	20.0
Acetonitrile	Ave	0.0371	0.0531	0.0100	358	250	43.0*	20.0
Isopropyl ether	Ave	0.2163	0.2284	0.0100	26.4	25.0	5.6	20.0
Chloroprene	Ave	0.3714	0.4774	0.0100	32.1	25.0	28.5*	20.0
Tert-butyl ethyl ether	Ave	0.7901	0.9211	0.0100	29.1	25.0	16.6	20.0
Ethyl acetate	Ave	0.2480	0.3523	0.0100	71.0	50.0	42.1*	20.0
Propionitrile	Ave	0.0381	0.0474	0.0100	311	250	24.2*	20.0
Methacrylonitrile	Ave	0.1502	0.2120	0.0100	353	250	41.2*	20.0
Tert-amyl methyl ether	Ave	0.7392	0.8071	0.0100	27.3	25.0	9.2	20.0
n-Butanol	Ave	0.0081	0.0080*	0.0100	622	625	-0.5	20.0
Methyl methacrylate	Ave	0.0689	0.0729	0.0100	52.9	50.0	5.8	20.0
2-Nitropropane	Ave	0.0623	0.0462	0.0100	37.1	50.0	-25.9*	20.0
cis-1,4-Dichloro-2-butene	Ave	0.2464	0.2033	0.0100	41.3	50.0	-17.5	20.0
1,2,3-Trimethylbenzene	Ave	2.391	2.157	0.0100	22.6	25.0	-9.8	20.0
1,3,5-Trichlorobenzene	Ave	0.8400	0.8360	0.0100	24.9	25.0	-0.5	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Aug-2023 06:24:30 ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVC
 Misc. Info.: 280-0124138-030
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub31
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:18:31 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: BX8N

Date: 03-Aug-2023 10:27:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.068	5.068	0.000	98	1624310	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	432358	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	96	767610	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.565	4.565	0.000	93	459204	50.0	50.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.830	4.830	0.000	0	623628	50.0	53.3	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1784120	50.0	51.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.643	8.643	0.000	88	686382	50.0	52.0	
16 Ethanol	45	2.679	2.679	0.000	100	245186	1500.0	2073.7	
22 Isopropyl alcohol	45	3.056	3.056	0.000	98	165254	250.0	301.7	
25 Acetonitrile	41	3.182	3.182	0.000	99	430869	250.0	357.6	
36 Isopropyl ether	87	3.825	3.825	0.000	94	185490	25.0	26.4	
37 2-Chloro-1,3-butadiene	53	3.867	3.867	0.000	94	387707	25.0	32.1	
38 Tert-butyl ethyl ether	59	4.076	4.076	0.000	98	748110	25.0	29.1	
40 Ethyl acetate	43	4.216	4.216	0.000	100	572266	50.0	71.0	
43 Propionitrile	54	4.244	4.244	0.000	99	384756	250.0	310.5	
45 Methacrylonitrile	41	4.355	4.355	0.000	96	1722096	250.0	352.9	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	86	655526	25.0	27.3	
58 n-Butanol	56	5.207	5.207	0.000	94	162620	625.0	621.7	
63 Methyl methacrylate	100	5.542	5.542	0.000	93	118349	50.0	52.9	
67 2-Nitropropane	41	5.892	5.892	0.000	94	75070	50.0	37.1	
89 cis-1,4-Dichloro-2-butene	53	8.517	8.517	0.000	0	156051	50.0	41.3	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	827936	25.0	22.6	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	97	320856	25.0	24.9	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00063

Amount Added: 25.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:18:32

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549.D

Injection Date: 03-Aug-2023 06:24:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

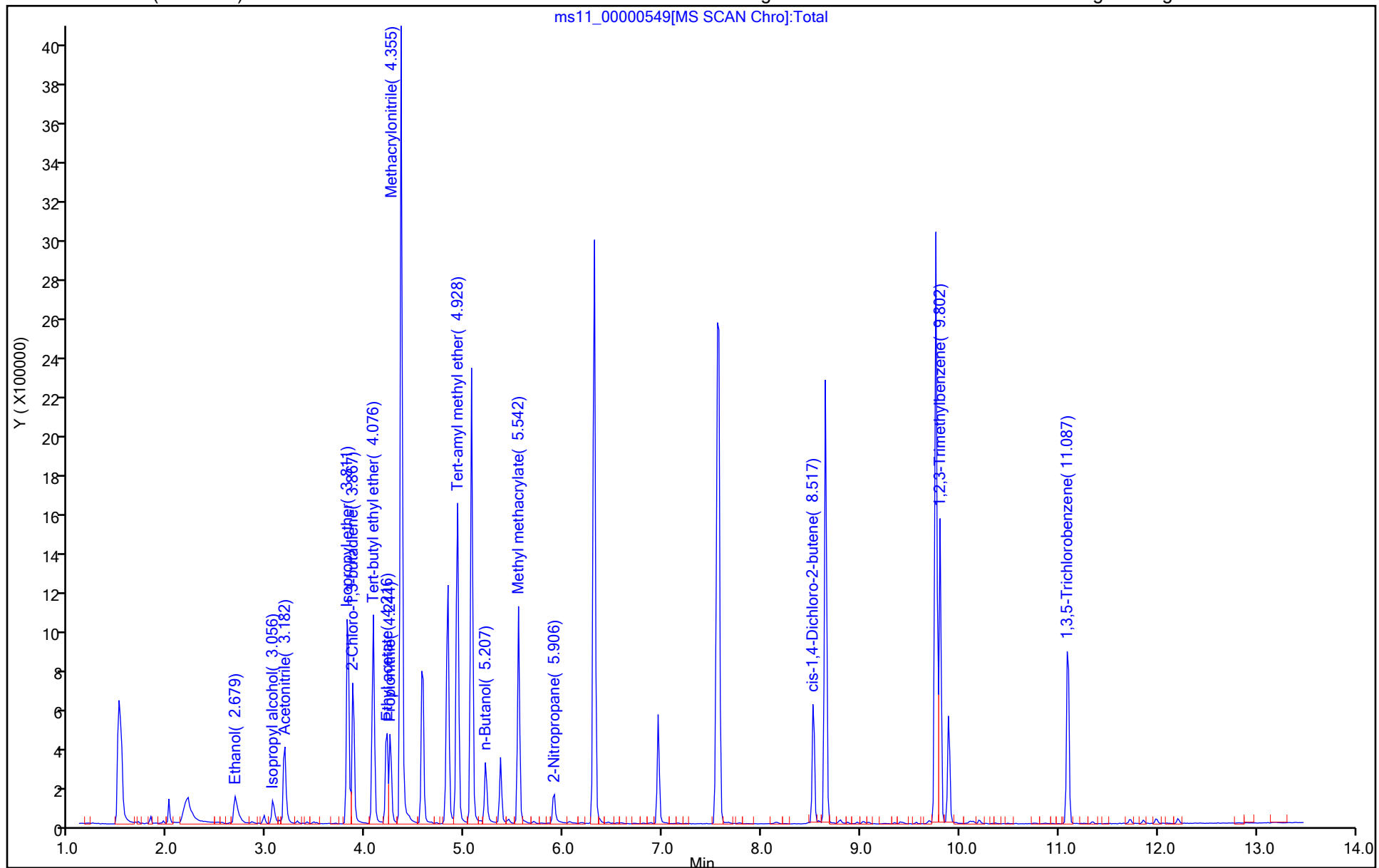
ALS Bottle#: 1

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab Sample ID: CCV 280-621653/3 Calibration Date: 08/03/2023 06:24
Instrument ID: VMS_MS11 Calib Start Date: 08/01/2023 07:39
GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 08/01/2023 10:30
Lab File ID: ms11_00000549.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2792	0.2827	0.0100	50.6	50.0	1.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3599	0.3839	0.0100	53.3	50.0	6.7	20.0
Toluene-d8 (Surr)	Ave	4.032	4.126	0.0100	51.2	50.0	2.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8601	0.8942	0.0100	52.0	50.0	4.0	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Aug-2023 06:24:30 ALS Bottle#: 1 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVC
 Misc. Info.: 280-0124138-030
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub31
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 00:18:31 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1613

First Level Reviewer: BX8N

Date: 03-Aug-2023 10:27:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.068	5.068	0.000	98	1624310	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	432358	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	96	767610	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.565	4.565	0.000	93	459204	50.0	50.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.830	4.830	0.000	0	623628	50.0	53.3	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1784120	50.0	51.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.643	8.643	0.000	88	686382	50.0	52.0	
16 Ethanol	45	2.679	2.679	0.000	100	245186	1500.0	2073.7	
22 Isopropyl alcohol	45	3.056	3.056	0.000	98	165254	250.0	301.7	
25 Acetonitrile	41	3.182	3.182	0.000	99	430869	250.0	357.6	
36 Isopropyl ether	87	3.825	3.825	0.000	94	185490	25.0	26.4	
37 2-Chloro-1,3-butadiene	53	3.867	3.867	0.000	94	387707	25.0	32.1	
38 Tert-butyl ethyl ether	59	4.076	4.076	0.000	98	748110	25.0	29.1	
40 Ethyl acetate	43	4.216	4.216	0.000	100	572266	50.0	71.0	
43 Propionitrile	54	4.244	4.244	0.000	99	384756	250.0	310.5	
45 Methacrylonitrile	41	4.355	4.355	0.000	96	1722096	250.0	352.9	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	86	655526	25.0	27.3	
58 n-Butanol	56	5.207	5.207	0.000	94	162620	625.0	621.7	
63 Methyl methacrylate	100	5.542	5.542	0.000	93	118349	50.0	52.9	
67 2-Nitropropane	41	5.892	5.892	0.000	94	75070	50.0	37.1	
89 cis-1,4-Dichloro-2-butene	53	8.517	8.517	0.000	0	156051	50.0	41.3	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	827936	25.0	22.6	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	97	320856	25.0	24.9	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00063

Amount Added: 25.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 00:18:32

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549.D

Injection Date: 03-Aug-2023 06:24:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

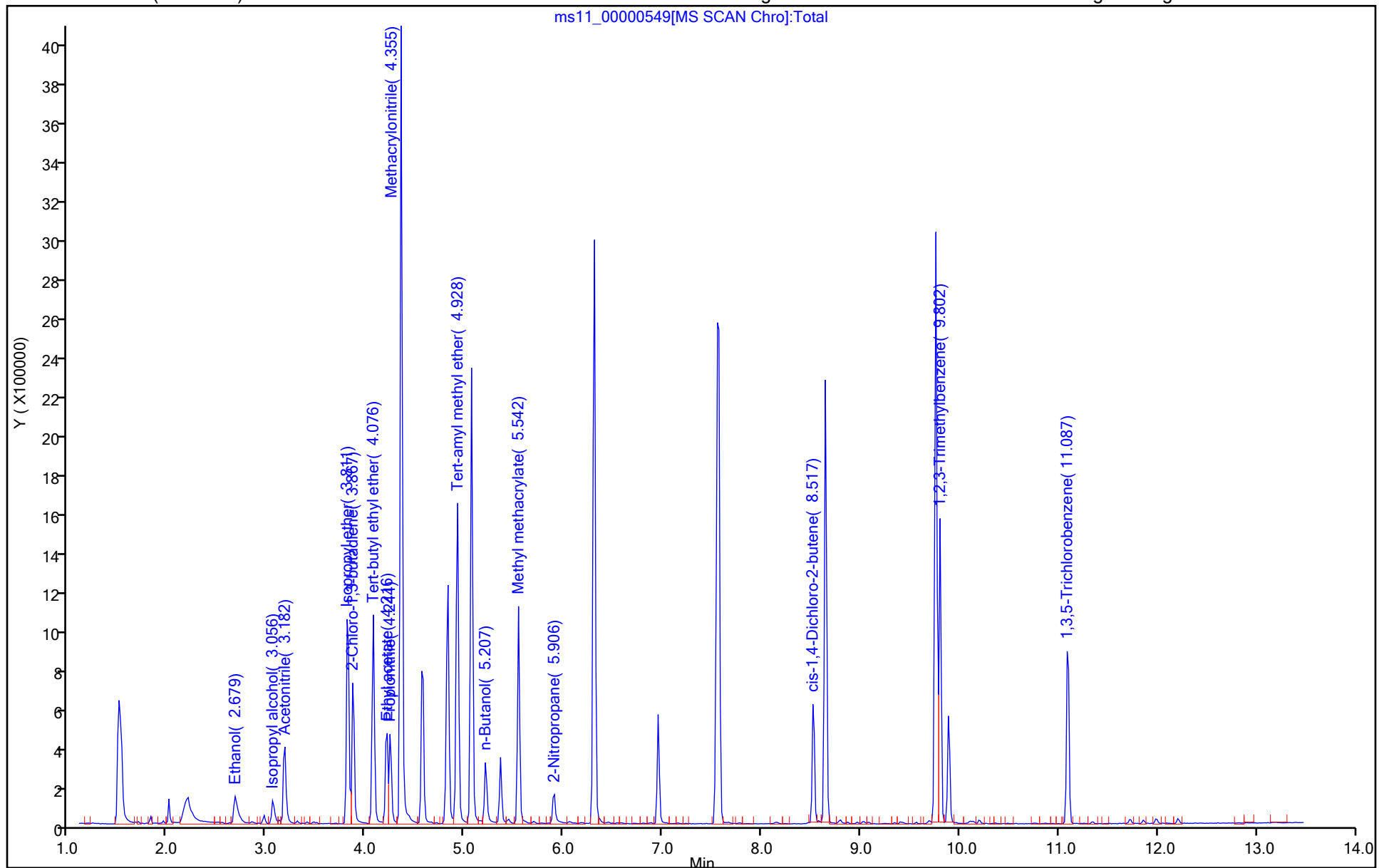
ALS Bottle#: 1

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: CCV 280-621653/2 Calibration Date: 08/03/2023 06:47

Instrument ID: VMS_MS11 Calib Start Date: 08/01/2023 07:39

GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 08/01/2023 10:30

Lab File ID: ms11_00000550.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2192	0.2751	0.1000	62.8	50.0	25.5*	20.0
Chloromethane	Ave	0.3629	0.3478	0.1000	47.9	50.0	-4.2	20.0
Vinyl chloride	Ave	0.3278	0.3378	0.0100	51.5	50.0	3.1	20.0
Bromomethane	Ave	0.1570	0.1434	0.0100	45.7	50.0	-8.7	20.0
Chloroethane	Ave	0.2306	0.2239	0.0100	48.5	50.0	-2.9	20.0
Dichlorofluoromethane	Ave	0.5854	0.5939	0.0100	50.7	50.0	1.4	20.0
Trichlorofluoromethane	Ave	0.3726	0.3988	0.0100	53.5	50.0	7.0	20.0
Ethyl ether	Ave	0.2296	0.2252	0.0100	49.0	50.0	-1.9	20.0
Acrolein	Ave	0.0388	0.0375	0.0010	476	494	-3.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1494	0.1556	0.0500	52.1	50.0	4.2	20.0
1,1-Dichloroethene	Ave	0.2153	0.1979	0.0600	46.0	50.0	-8.1	20.0
Acetone	Lin1		0.0930	0.0100	211	200	5.4	20.0
Iodomethane	Lin1		0.2411	0.0100	45.2	50.0	-9.6	20.0
Carbon disulfide	Lin1		0.7048	0.1000	49.8	50.0	-0.3	20.0
Methyl acetate	Ave	0.2237	0.2186	0.0100	97.7	100	-2.3	20.0
Allyl chloride	Ave	0.4490	0.4637	0.0100	51.6	50.0	3.3	20.0
Methylene Chloride	Ave	0.2774	0.2540	0.0100	45.8	50.0	-8.4	20.0
2-Methyl-2-propanol	Ave	0.0315	0.0251	0.0010	398	500	-20.4*	20.0
Acrylonitrile	Ave	0.1129	0.1094	0.0100	485	500	-3.1	20.0
Methyl tert-butyl ether	Ave	0.8031	0.7799	0.1000	48.6	50.0	-2.9	20.0
trans-1,2-Dichloroethene	Ave	0.2523	0.2323	0.1000	46.0	50.0	-7.9	20.0
Hexane	Ave	0.9575	1.283	0.0100	67.0	50.0	34.0*	20.0
Vinyl acetate	Ave	0.5788	0.6532	0.0100	113	100	12.9	20.0
1,1-Dichloroethane	Ave	0.4767	0.4798	0.1000	50.3	50.0	0.6	20.0
2-Butanone (MEK)	Lin2		0.1509	0.0100	203	200	1.4	20.0
cis-1,2-Dichloroethene	Ave	0.2907	0.2648	0.1000	45.5	50.0	-8.9	20.0
2,2-Dichloropropane	Ave	0.4017	0.3891	0.0100	48.4	50.0	-3.1	20.0
sec-Butyl Alcohol	Ave	0.0265	0.0234	0.0100	1060	1200	-11.6	20.0
Chlorobromomethane	Ave	0.1391	0.1257	0.0500	45.2	50.0	-9.6	20.0
Tetrahydrofuran	Ave	0.0929	0.0948	0.0010	102	100	2.1	20.0
Chloroform	Ave	0.4628	0.4377	0.2000	47.3	50.0	-5.4	20.0
1,1,1-Trichloroethane	Ave	0.3875	0.3668	0.0500	47.3	50.0	-5.3	20.0
Cyclohexane	Ave	0.3805	0.4500	0.0100	59.1	50.0	18.3	20.0
1,1-Dichloropropene	Ave	0.3640	0.3454	0.0100	47.4	50.0	-5.1	20.0
Carbon tetrachloride	Ave	0.3100	0.2809	0.1000	45.3	50.0	-9.4	20.0
Isobutyl alcohol	Ave	0.0148	0.0143	0.0010	1200	1250	-3.7	20.0
Benzene	Ave	1.021	1.001	0.2000	49.0	50.0	-2.0	20.0
1,2-Dichloroethane	Ave	0.4041	0.4126	0.0700	51.1	50.0	2.1	20.0
n-Heptane	Lin2		0.3251		68.8	50.0	37.7	
Trichloroethene	Ave	0.2790	0.2467	0.2000	44.2	50.0	-11.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: CCV 280-621653/2 Calibration Date: 08/03/2023 06:47

Instrument ID: VMS_MS11 Calib Start Date: 08/01/2023 07:39

GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 08/01/2023 10:30

Lab File ID: ms11_00000550.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Lin2		0.2278	0.0010	167	160	4.5	20.0
1,2-Dichloropropane	Ave	0.2929	0.2895	0.1000	49.4	50.0	-1.2	20.0
Methylcyclohexane	Ave	0.2665	0.3173	0.0500	59.5	50.0	19.1	20.0
1,4-Dioxane	Ave	0.0045	0.0037	0.0010	836	1000	-16.4	20.0
Dibromomethane	Ave	0.1791	0.1644	0.0100	45.9	50.0	-8.2	20.0
Dichlorobromomethane	Ave	0.3398	0.3320	0.2000	48.8	50.0	-2.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1926	0.1901	0.0100	49.3	50.0	-1.3	20.0
cis-1,3-Dichloropropene	Ave	1.533	1.574	0.2000	51.3	50.0	2.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2801	0.2943	0.0300	210	200	5.1	20.0
Toluene	Ave	1.118	1.040	0.3000	46.5	50.0	-6.9	20.0
trans-1,3-Dichloropropene	Ave	0.4282	0.4090	0.2000	47.8	50.0	-4.5	20.0
Ethyl methacrylate	Ave	1.306	1.276	0.0100	48.8	50.0	-2.3	20.0
1,1,2-Trichloroethane	Ave	0.2413	0.2232	0.1000	46.2	50.0	-7.5	20.0
Tetrachloroethene	Ave	0.8193	0.7530	0.1000	45.9	50.0	-8.1	20.0
1,3-Dichloropropane	Ave	1.617	1.641	0.0100	50.7	50.0	1.5	20.0
2-Hexanone	Ave	0.7363	0.7768	0.0100	211	200	5.5	20.0
Chlorodibromomethane	Ave	0.9153	0.8581	0.1000	46.9	50.0	-6.2	20.0
1,2-Dibromoethane	Ave	0.9171	0.8726	0.1000	47.6	50.0	-4.8	20.0
1-Chlorohexane	Lin2		1.221	0.0100	40.5	40.0	1.2	20.0
Chlorobenzene	Ave	2.746	2.621	0.3000	47.7	50.0	-4.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.9219	0.8570	0.0100	46.5	50.0	-7.0	20.0
Ethylbenzene	Ave	1.466	1.401	0.3000	47.8	50.0	-4.4	20.0
m-Xylene & p-Xylene	Ave	3.548	3.539	0.1000	49.9	50.0	-0.2	20.0
o-Xylene	Ave	1.797	1.700	0.2000	47.3	50.0	-5.4	20.0
Styrene	Ave	2.983	3.008	0.2000	50.4	50.0	0.8	20.0
Bromoform	Ave	0.6542	0.5489	0.1000	42.0	50.0	-16.1	20.0
Isopropylbenzene	Ave	2.408	2.395	0.3000	49.7	50.0	-0.6	20.0
Cyclohexanone	Ave	0.0653	0.0485	0.0010	1110	1500	-25.7*	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6726	0.6521	0.3000	48.5	50.0	-3.0	20.0
Bromobenzene	Ave	0.6890	0.6599	0.0100	47.9	50.0	-4.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2246	0.2181	0.0100	48.6	50.0	-2.9	20.0
1,2,3-Trichloropropane	Ave	0.2203	0.2004	0.0100	45.5	50.0	-9.0	20.0
N-Propylbenzene	Ave	0.6742	0.6633	0.0100	49.2	50.0	-1.6	20.0
2-Chlorotoluene	Ave	0.6065	0.5808	0.0100	47.9	50.0	-4.3	20.0
1,3,5-Trimethylbenzene	Ave	2.005	2.008	0.0100	50.1	50.0	0.2	20.0
4-Chlorotoluene	Ave	0.6410	0.6158	0.0100	48.0	50.0	-3.9	20.0
tert-Butylbenzene	Ave	1.770	1.650	0.0100	46.6	50.0	-6.8	20.0
1,2,4-Trimethylbenzene	Ave	2.092	2.081	0.3000	49.7	50.0	-0.5	20.0
sec-Butylbenzene	Ave	0.4975	0.4787	0.0100	48.1	50.0	-3.8	20.0
1,3-Dichlorobenzene	Ave	1.300	1.180	0.5000	45.4	50.0	-9.2	20.0
4-Isopropyltoluene	Ave	2.105	2.049	0.0100	48.7	50.0	-2.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621653/2 Calibration Date: 08/03/2023 06:47
 Instrument ID: VMS_MS11 Calib Start Date: 08/01/2023 07:39
 GC Column: RXI-624SilMS ID: 0.25 (mm) Calib End Date: 08/01/2023 10:30
 Lab File ID: ms11_00000550.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Ave	1.350	1.229	0.5000	45.5	50.0	-9.0	20.0
n-Butylbenzene	Ave	1.809	1.834	0.0100	50.7	50.0	1.4	20.0
1,2-Dichlorobenzene	Ave	1.230	1.142	0.5000	46.4	50.0	-7.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1496	0.1233	0.0100	41.2	50.0	-17.6	20.0
1,2,4-Trichlorobenzene	Lin2		0.7543	0.2000	45.0	50.0	-10.0	20.0
Hexachlorobutadiene	Lin2		0.3317	0.0100	45.1	50.0	-9.8	20.0
Naphthalene	Lin1		1.849	0.0100	46.5	50.0	-7.0	20.0
1,2,3-Trichlorobenzene	Lin1		0.6280	0.3000	46.2	50.0	-7.5	20.0
Dibromofluoromethane (Surr)	Ave	0.2792	0.2767	0.0100	49.5	50.0	-0.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3599	0.3839	0.0100	53.3	50.0	6.7	20.0
Toluene-d8 (Surr)	Ave	4.032	4.121	0.0100	51.1	50.0	2.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8601	0.9064	0.0100	52.7	50.0	5.4	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000550.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Aug-2023 06:47:30 ALS Bottle#: 2 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVC
 Misc. Info.: 280-0124138-029
 Operator ID: MED Instrument ID: VMS_MS11
 Sublist: chrom-AQ_VMS11_8260*sub1
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 10:29:45 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 07:16:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1677125	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	89	440686	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	98	781299	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	464073	50.0	49.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.830	4.830	0.000	0	643832	50.0	53.3	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1816203	50.0	51.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.643	8.643	0.000	90	708142	50.0	52.7	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	461442	50.0	62.8	
10 Chloromethane	50	1.883	1.883	0.000	99	583318	50.0	47.9	
11 Vinyl chloride	62	1.981	1.981	0.000	98	566571	50.0	51.5	
12 Bromomethane	94	2.246	2.246	0.000	93	240492	50.0	45.7	
13 Chloroethane	64	2.344	2.344	0.000	99	375529	50.0	48.5	
14 Dichlorofluoromethane	67	2.526	2.526	0.000	98	996042	50.0	50.7	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	98	668861	50.0	53.5	
17 Ethyl ether	59	2.763	2.763	0.000	96	377682	50.0	49.0	
18 Acrolein	56	2.875	2.875	0.000	99	620453	493.8	476.4	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	67	260877	50.0	52.1	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	94	331905	50.0	46.0	
21 Acetone	43	2.973	2.973	0.000	98	624061	200.0	210.7	
23 Iodomethane	142	3.084	3.084	0.000	100	404299	50.0	45.2	
24 Carbon disulfide	76	3.140	3.140	0.000	100	1181965	50.0	49.8	
26 Methyl acetate	43	3.196	3.196	0.000	99	733281	100.0	97.7	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	88	777623	50.0	51.6	
28 Methylene Chloride	84	3.308	3.308	0.000	98	426006	50.0	45.8	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	98	421011	500.0	398.0	
30 Acrylonitrile	53	3.476	3.476	0.000	98	1835526	500.0	484.7	
31 Methyl tert-butyl ether	73	3.489	3.489	0.000	98	1308039	50.0	48.6	
32 trans-1,2-Dichloroethene	96	3.517	3.517	0.000	95	389632	50.0	46.0	
33 Hexane	57	3.699	3.699	0.000	96	565612	50.0	67.0	
34 Vinyl acetate	43	3.797	3.797	0.000	98	2190985	100.0	112.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 1,1-Dichloroethane	63	3.825	3.825	0.000	97	804669	50.0	50.3	
39 2-Butanone (MEK)	43	4.202	4.202	0.000	99	1012174	200.0	202.8	
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	86	444117	50.0	45.5	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	92	652546	50.0	48.4	
44 sec-Butyl Alcohol	45	4.313	4.313	0.000	99	941628	1200.0	1060.8	
46 Chlorobromomethane	128	4.411	4.411	0.000	97	210864	50.0	45.2	
47 Tetrahydrofuran	42	4.411	4.411	0.000	91	318143	100.0	102.1	
48 Chloroform	83	4.467	4.467	0.000	95	734091	50.0	47.3	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	98	615162	50.0	47.3	
50 Cyclohexane	56	4.663	4.663	0.000	96	754733	50.0	59.1	
51 1,1-Dichloropropene	75	4.719	4.719	0.000	94	579231	50.0	47.4	
52 Carbon tetrachloride	117	4.719	4.719	0.000	95	471121	50.0	45.3	
53 Isobutyl alcohol	43	4.732	4.732	0.000	96	598745	1250.0	1203.6	
54 Benzene	78	4.872	4.872	0.000	98	1678558	50.0	49.0	
55 1,2-Dichloroethane	62	4.886	4.886	0.000	97	691963	50.0	51.1	
57 n-Heptane	43	5.040	5.040	0.000	98	545233	50.0	68.8	
59 Trichloroethene	130	5.347	5.347	0.000	97	413768	50.0	44.2	
60 2-Pentanone	43	5.445	5.445	0.000	98	1222629	160.0	167.1	
61 Methylcyclohexane	55	5.543	5.543	0.000	95	532156	50.0	59.5	
62 1,2-Dichloropropane	63	5.543	5.543	0.000	91	485478	50.0	49.4	
64 1,4-Dioxane	88	5.598	5.598	0.000	98	125443	1000.0	835.8	
65 Dibromomethane	93	5.626	5.626	0.000	94	275782	50.0	45.9	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	556744	50.0	48.8	
68 2-Chloroethyl vinyl ether	63	5.934	5.934	0.000	92	318792	50.0	49.3	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	91	693657	50.0	51.3	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	99	1974402	200.0	210.2	
71 Toluene	91	6.367	6.367	0.000	97	1744903	50.0	46.5	
72 trans-1,3-Dichloropropene	75	6.534	6.534	0.000	99	685880	50.0	47.8	
73 Ethyl methacrylate	69	6.562	6.562	0.000	92	562131	50.0	48.8	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	94	374295	50.0	46.2	
75 Tetrachloroethene	164	6.813	6.813	0.000	97	331824	50.0	45.9	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	97	723211	50.0	50.7	
77 2-Hexanone	43	6.869	6.869	0.000	98	1369377	200.0	211.0	
78 Chlorodibromomethane	129	7.051	7.051	0.000	90	378173	50.0	46.9	
79 Ethylene Dibromide	107	7.163	7.163	0.000	98	384563	50.0	47.6	
80 1-Chlorohexane	91	7.554	7.554	0.000	93	430323	40.0	40.5	
81 Chlorobenzene	112	7.596	7.596	0.000	92	1155162	50.0	47.7	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	91	377660	50.0	46.5	
83 Ethylbenzene	106	7.665	7.665	0.000	99	617609	50.0	47.8	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	1559756	50.0	49.9	
85 o-Xylene	106	8.140	8.140	0.000	98	749033	50.0	47.3	
86 Styrene	104	8.154	8.154	0.000	93	1325620	50.0	50.4	
87 Bromoform	173	8.336	8.336	0.000	95	241902	50.0	42.0	
88 Isopropylbenzene	105	8.475	8.475	0.000	97	1870930	50.0	49.7	
90 Cyclohexanone	55	8.573	8.573	0.000	96	641410	1500.0	1114.0	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	95	509512	50.0	48.5	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	50	170427	50.0	48.6	
92 Bromobenzene	156	8.797	8.797	0.000	97	515596	50.0	47.9	
94 1,2,3-Trichloropropane	110	8.825	8.825	0.000	89	156610	50.0	45.5	
95 N-Propylbenzene	120	8.866	8.866	0.000	99	518273	50.0	49.2	
96 2-Chlorotoluene	126	8.964	8.964	0.000	95	453740	50.0	47.9	
97 1,3,5-Trimethylbenzene	105	9.034	9.034	0.000	94	1568683	50.0	50.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
98 4-Chlorotoluene	126	9.090	9.090	0.000	98	481097	50.0	48.0	
99 tert-Butylbenzene	119	9.341	9.341	0.000	94	1288765	50.0	46.6	
100 1,2,4-Trimethylbenzene	105	9.397	9.397	0.000	98	1625799	50.0	49.7	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	374032	50.0	48.1	
102 1,3-Dichlorobenzene	146	9.690	9.690	0.000	97	921674	50.0	45.4	
103 4-Isopropyltoluene	119	9.704	9.704	0.000	97	1600704	50.0	48.7	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	94	959945	50.0	45.5	
106 n-Butylbenzene	91	10.109	10.109	0.000	98	1433009	50.0	50.7	
107 1,2-Dichlorobenzene	146	10.137	10.137	0.000	96	892105	50.0	46.4	
108 1,2-Dibromo-3-Chloropropane	157	10.906	10.906	0.000	75	96342	50.0	41.2	
110 1,2,4-Trichlorobenzene	180	11.730	11.730	0.000	94	589345	50.0	45.0	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	96	259167	50.0	45.1	
112 Naphthalene	128	11.995	11.995	0.000	98	1444492	50.0	46.5	
113 1,2,3-Trichlorobenzene	180	12.204	12.204	0.000	94	490688	50.0	46.2	
S 122 Xylenes, Total	106				0		100.0	97.2	
S 123 1,2-Dichloroethene, Total	1				0		100.0	91.6	
S 124 1,3-Dichloropropene, Total	1				0		100.0	99.1	
S 125 Trihalomethanes, Total	1				0		200.0	185.0	

QC Flag Legend

Processing Flags

Reagents:

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

MV-Gas B_00141

Amount Added: 10.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 10:29:45

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000550.D

Injection Date: 03-Aug-2023 06:47:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: CCV

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

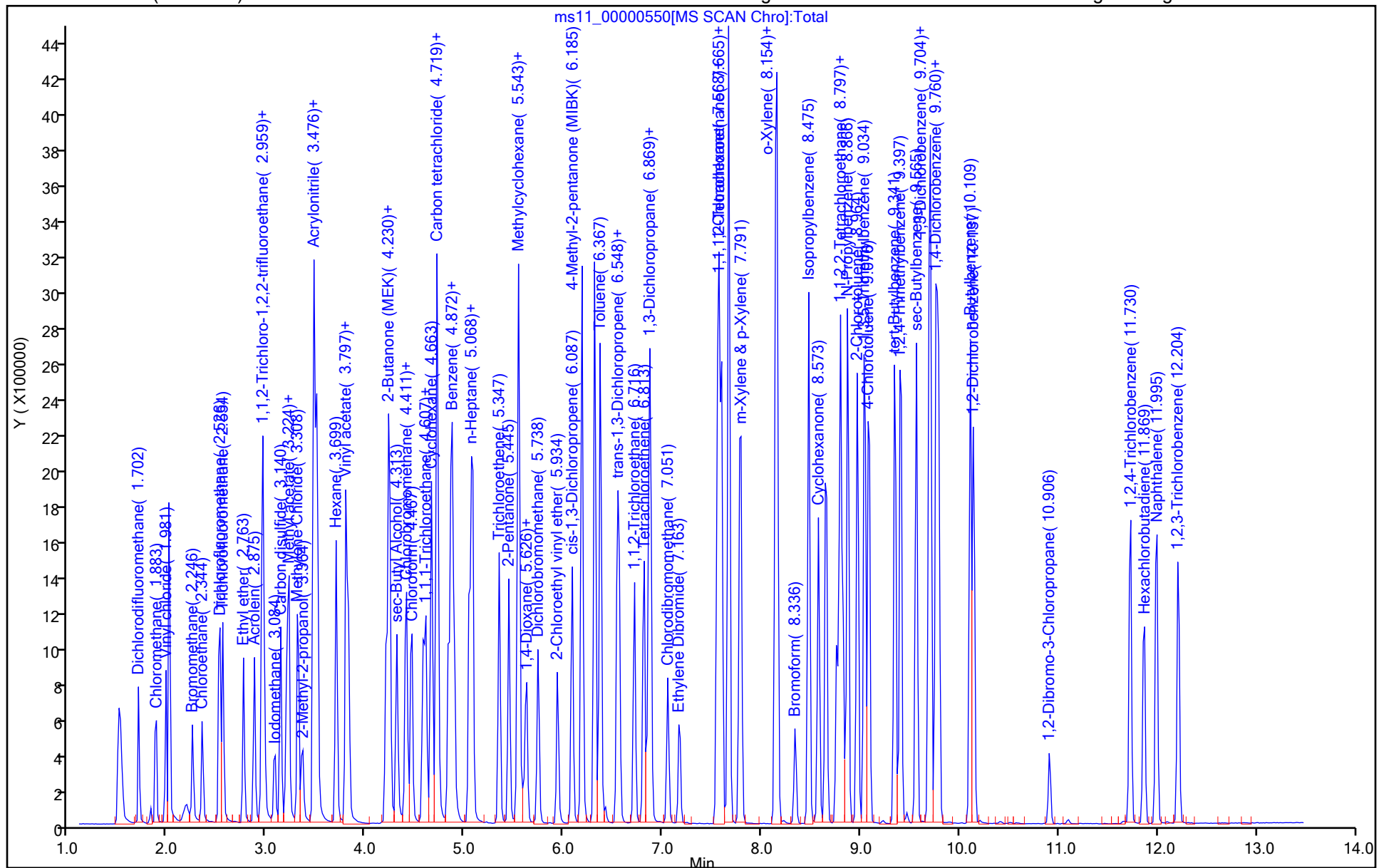
ALS Bottle#: 2

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab Sample ID: ICV 280-570124/22 Calibration Date: 03/29/2022 20:24
Instrument ID: VMS_R1 Calib Start Date: 03/08/2022 16:39
GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 03/08/2022 19:30
Lab File ID: R3117.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2663	0.2529	0.0100	47.5	50.0	-5.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3060	0.2858	0.0100	46.7	50.0	-6.6	30.0
Toluene-d8 (Surr)	Ave	3.990	3.921	0.0100	49.1	50.0	-1.7	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9239	0.9448	0.0100	51.1	50.0	2.3	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3117.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 29-Mar-2022 20:24:30 ALS Bottle#: 10 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0109642-022
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 21:10:41 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 21:10:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2306045	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	555734	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	926372	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.399	4.403	-0.004	93	583194	50.0	47.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.662	4.658	0.004	0	659039	50.0	46.7	
\$ 6 Toluene-d8 (Surr)	98	6.143	6.142	0.000	93	2178961	50.0	49.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.500	8.500	0.000	88	875241	50.0	51.1	
13 Ethylene oxide	43	2.094	2.097	-0.003	100	2427729	5000.0	5128.2	
18 Ethanol	45	2.525	2.525	0.000	100	284493	3000.0	2571.6	
20 Propene oxide	58	2.656	2.656	0.000	96	10313429	5000.0	5888.2	
25 Isopropyl alcohol	45	2.907	2.903	0.004	98	283682	500.0	480.7	
28 Acetonitrile	41	3.020	3.016	0.004	99	683023	500.0	497.4	
41 Isopropyl ether	87	3.657	3.657	0.000	93	431236	50.0	53.5	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	92	778336	50.0	51.4	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	1515973	50.0	54.2	
46 Ethyl acetate	43	4.051	4.050	0.001	99	971388	100.0	111.0	
49 Propionitrile	54	4.081	4.080	0.001	99	816037	500.0	494.0	
51 Methacrylonitrile	41	4.189	4.189	0.000	92	3199450	500.0	490.7	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	99	1353170	50.0	53.0	
66 n-Butanol	56	5.048	5.048	0.000	88	340336	1250.0	1110.2	
71 Methyl methacrylate	100	5.382	5.381	0.001	91	303323	100.0	107.5	
75 2-Nitropropane	41	5.734	5.734	0.000	99	257610	100.0	102.6	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	92	69128	100.0	38.9	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	376465	100.0	100.2	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	2138851	50.0	50.3	
119 1,3,5-Trichlorobenzene	180	10.971	10.970	0.001	97	753401	50.0	50.2	
166 Ethyl acrylate	55		0.000				ND	ND	

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

MV-Supp B_00048	Amount Added: 50.00	Units: uL	
mv-IS_SS_00036	Amount Added: 5.00	Units: uL	Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3117.D

Injection Date: 29-Mar-2022 20:24:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: ICV

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

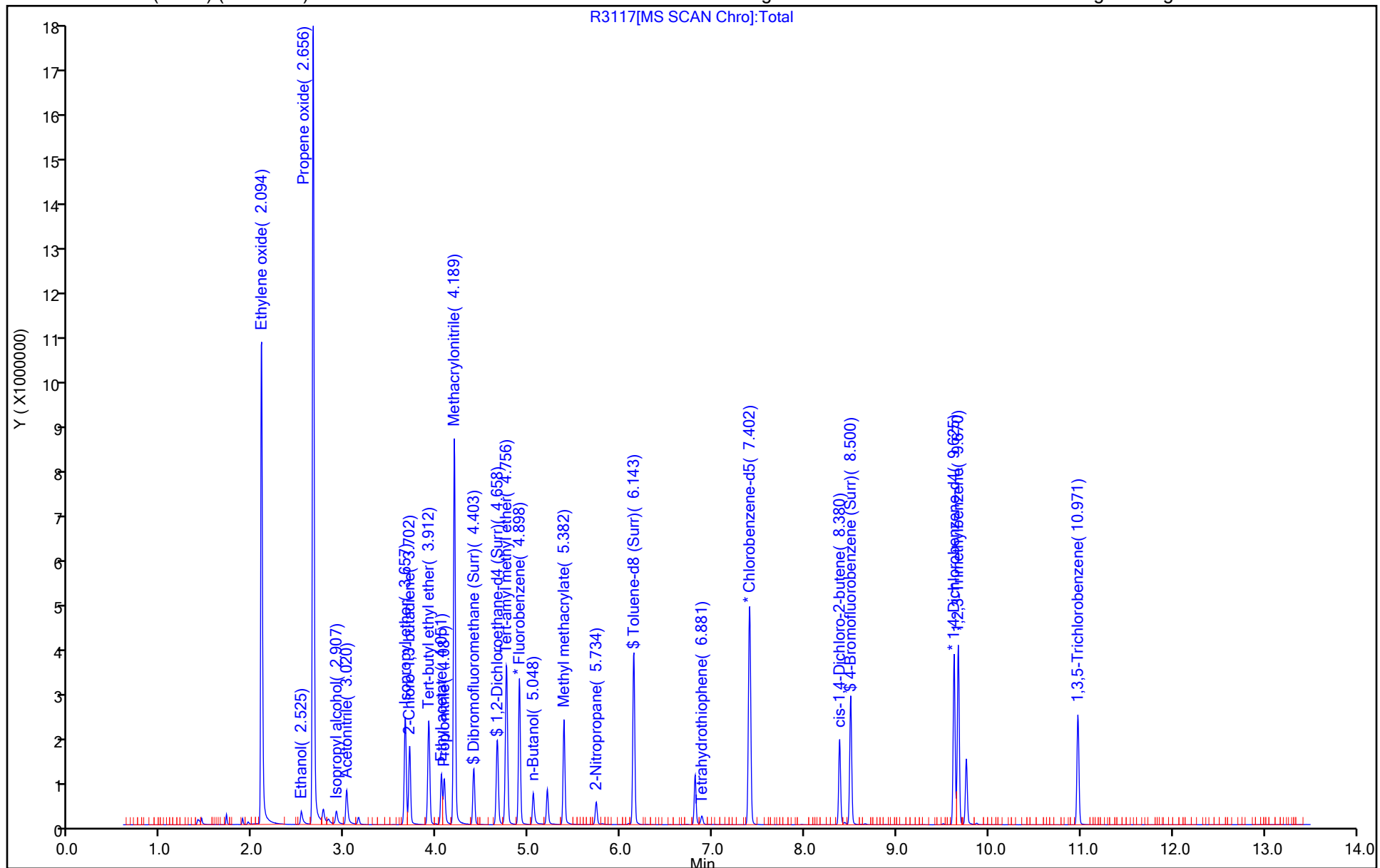
ALS Bottle#: 10

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: ICV 280-570124/22 Calibration Date: 03/29/2022 20:24
 Instrument ID: VMS_R1 Calib Start Date: 03/29/2022 17:08
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 03/29/2022 19:40
 Lab File ID: R3117.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin2		0.0021*	0.0100	2570	3000	-14.3	30.0
Isopropyl alcohol	Ave	0.0128	0.0123	0.0100	481	500	-3.9	30.0
Acetonitrile	Ave	0.0298	0.0296	0.0100	497	500	-0.5	30.0
Isopropyl ether	Ave	0.1747	0.1870	0.0100	53.5	50.0	7.1	30.0
Chloroprene	Ave	0.3282	0.3375	0.0100	51.4	50.0	2.8	30.0
Tert-butyl ethyl ether	Ave	0.6061	0.6574	0.0100	54.2	50.0	8.5	30.0
Ethyl acetate	Ave	0.1897	0.2106	0.0100	111	100	11.0	30.0
Propionitrile	Ave	0.0358	0.0354	0.0100	494	500	-1.2	30.0
Methacrylonitrile	Ave	0.1414	0.1387	0.0100	491	500	-1.9	30.0
Tert-amyl methyl ether	Ave	0.5540	0.5868	0.0100	53.0	50.0	5.9	30.0
n-Butanol	Lin1		0.0059*	0.0100	1110	1250	-11.2	30.0
Methyl methacrylate	Ave	0.0612	0.0658	0.0100	108	100	7.5	30.0
2-Nitropropane	Ave	0.0544	0.0559	0.0100	103	100	2.6	30.0
cis-1,4-Dichloro-2-butene	Lin1		0.2032	0.0100	100	100	0.2	30.0
1,2,3-Trimethylbenzene	Ave	2.297	2.309	0.0100	50.3	50.0	0.5	30.0
1,3,5-Trichlorobenzene	Ave	0.8098	0.8133	0.0100	50.2	50.0	0.4	30.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3117.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 29-Mar-2022 20:24:30 ALS Bottle#: 10 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 280-0109642-022
 Operator ID: peppinga Instrument ID: VMS_R1
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 21:10:41 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 21:10:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.898	4.898	0.000	99	2306045	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.406	7.405	0.001	87	555734	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.625	9.625	0.000	96	926372	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.399	4.403	-0.004	93	583194	50.0	47.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.662	4.658	0.004	0	659039	50.0	46.7	
\$ 6 Toluene-d8 (Surr)	98	6.143	6.142	0.000	93	2178961	50.0	49.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.500	8.500	0.000	88	875241	50.0	51.1	
13 Ethylene oxide	43	2.094	2.097	-0.003	100	2427729	5000.0	5128.2	
18 Ethanol	45	2.525	2.525	0.000	100	284493	3000.0	2571.6	
20 Propene oxide	58	2.656	2.656	0.000	96	10313429	5000.0	5888.2	
25 Isopropyl alcohol	45	2.907	2.903	0.004	98	283682	500.0	480.7	
28 Acetonitrile	41	3.020	3.016	0.004	99	683023	500.0	497.4	
41 Isopropyl ether	87	3.657	3.657	0.000	93	431236	50.0	53.5	
42 2-Chloro-1,3-butadiene	53	3.702	3.706	-0.004	92	778336	50.0	51.4	
44 Tert-butyl ethyl ether	59	3.912	3.912	0.000	97	1515973	50.0	54.2	
46 Ethyl acetate	43	4.051	4.050	0.001	99	971388	100.0	111.0	
49 Propionitrile	54	4.081	4.080	0.001	99	816037	500.0	494.0	
51 Methacrylonitrile	41	4.189	4.189	0.000	92	3199450	500.0	490.7	
64 Tert-amyl methyl ether	73	4.759	4.759	0.000	99	1353170	50.0	53.0	
66 n-Butanol	56	5.048	5.048	0.000	88	340336	1250.0	1110.2	
71 Methyl methacrylate	100	5.382	5.381	0.001	91	303323	100.0	107.5	
75 2-Nitropropane	41	5.734	5.734	0.000	99	257610	100.0	102.6	
86 Tetrahydrothiophene	60	6.881	6.884	-0.003	92	69128	100.0	38.9	
98 cis-1,4-Dichloro-2-butene	53	8.380	8.380	0.000	0	376465	100.0	100.2	
115 1,2,3-Trimethylbenzene	105	9.670	9.670	0.000	99	2138851	50.0	50.3	
119 1,3,5-Trichlorobenzene	180	10.971	10.970	0.001	97	753401	50.0	50.2	
166 Ethyl acrylate	55		0.000				ND	ND	

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

MV-Supp B_00048	Amount Added: 50.00	Units: uL	
mv-IS_SS_00036	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 29-Mar-2022 21:10:56

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3117.D

Injection Date: 29-Mar-2022 20:24:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: ICV

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

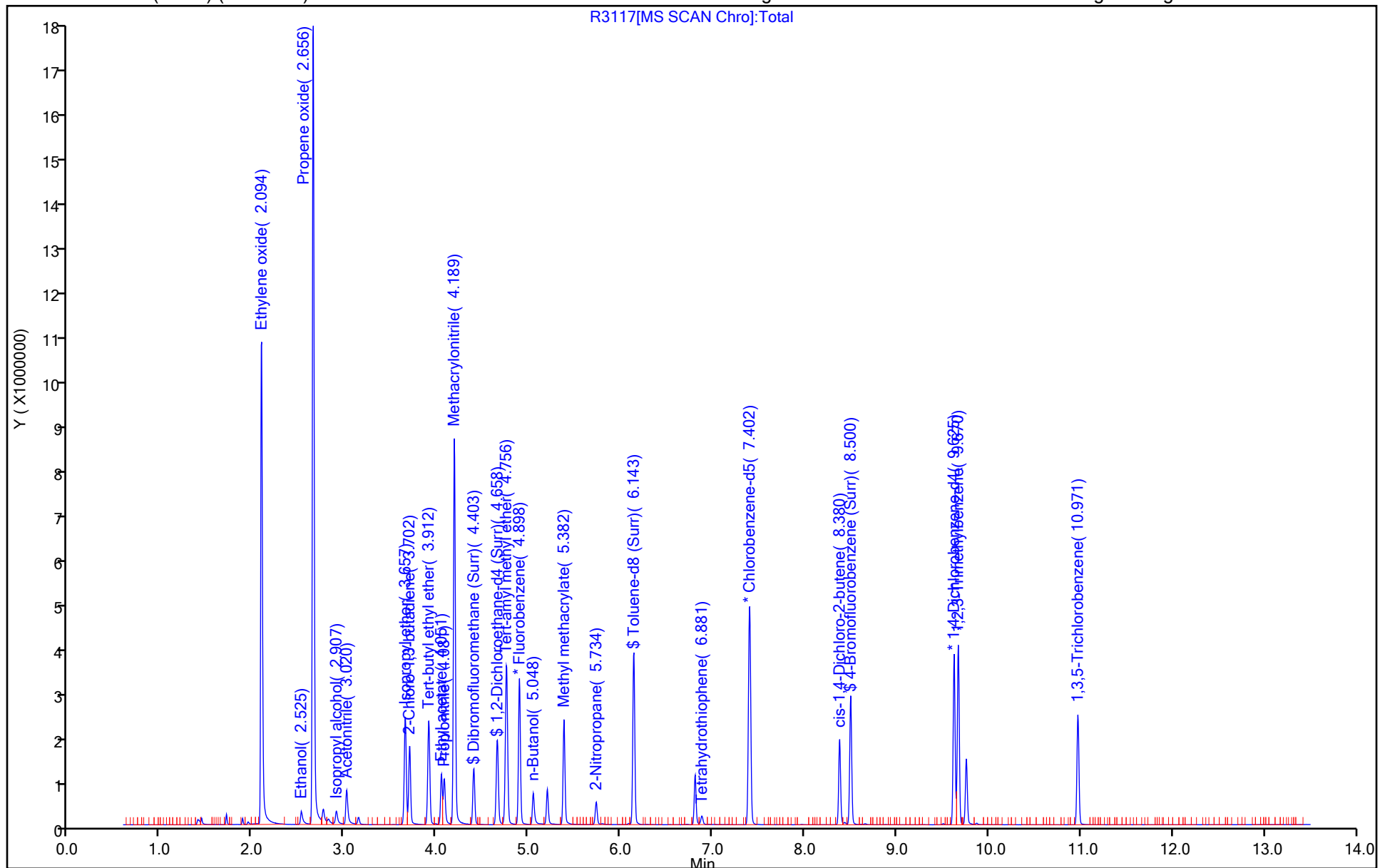
ALS Bottle#: 10

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: ICV 280-621220/22 Calibration Date: 07/30/2023 19:40

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6579.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2284	0.1000	47.6	50.0	-4.8	20.0
Chloromethane	Lin1		0.3590	0.1000	47.2	50.0	-5.6	20.0
Vinyl chloride	Lin1		0.2951	0.1000	48.3	50.0	-3.4	20.0
Bromomethane	Ave	0.1999	0.1796	0.1000	44.9	50.0	-10.2	20.0
Chloroethane	Ave	0.1971	0.1829	0.1000	46.4	50.0	-7.2	20.0
Dichlorofluoromethane	Ave	0.4638	0.4835	0.0100	52.1	50.0	4.2	20.0
Trichlorofluoromethane	Ave	0.3350	0.3188	0.1000	47.6	50.0	-4.8	20.0
Ethyl ether	Ave	0.2097	0.2118	0.0100	50.5	50.0	1.0	20.0
Acrolein	Ave	0.0352	0.0357	0.0100	501	494	1.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1386	0.1477	0.1000	53.3	50.0	6.6	20.0
1,1-Dichloroethene	Ave	0.1930	0.2029	0.1000	52.6	50.0	5.2	20.0
Acetone	Lin2		0.0805*	0.1000	185	200	-7.4	20.0
Iodomethane	Ave	0.2695	0.2804	0.0100	52.0	50.0	4.0	20.0
Carbon disulfide	Ave	0.7639	0.7154	0.1000	46.8	50.0	-6.3	20.0
Methyl acetate	Ave	0.2046	0.1979	0.1000	96.7	100	-3.3	20.0
Allyl chloride	Ave	0.4777	0.4425	0.0100	46.3	50.0	-7.4	20.0
Methylene Chloride	Ave	0.2612	0.2530	0.1000	48.4	50.0	-3.1	20.0
2-Methyl-2-propanol	Ave	0.0224	0.0212	0.0100	473	500	-5.3	20.0
Acrylonitrile	Ave	0.1004	0.1034	0.0100	515	500	3.0	20.0
Methyl tert-butyl ether	Ave	0.6343	0.6638	0.1000	52.3	50.0	4.6	20.0
trans-1,2-Dichloroethene	Ave	0.2299	0.2232	0.1000	48.6	50.0	-2.9	20.0
Hexane	Ave	1.299	1.356	0.0100	52.2	50.0	4.3	20.0
Vinyl acetate	Lin2		0.4660	0.0100	85.4	100	-14.6	20.0
1,1-Dichloroethane	Ave	0.4818	0.4815	0.2000	50.0	50.0	-0.0	20.0
2-Butanone (MEK)	Ave	0.1256	0.1239	0.1000	197	200	-1.3	20.0
cis-1,2-Dichloroethene	Ave	0.2532	0.2546	0.1000	50.3	50.0	0.5	20.0
2,2-Dichloropropane	Ave	0.3403	0.3298	0.0100	48.5	50.0	-3.1	20.0
sec-Butyl Alcohol	Lin2		0.0205	0.0100	1090	1200	-9.6	20.0
Chlorobromomethane	Ave	0.1065	0.1094	0.0100	51.4	50.0	2.7	20.0
Tetrahydrofuran	Ave	0.0820	0.0853	0.0010	104	100	4.0	20.0
Chloroform	Ave	0.4272	0.4291	0.2000	50.2	50.0	0.4	20.0
1,1,1-Trichloroethane	Ave	0.3347	0.3480	0.1000	52.0	50.0	4.0	20.0
Cyclohexane	Ave	0.4171	0.4600	0.1000	55.1	50.0	10.3	20.0
1,1-Dichloropropene	Ave	0.3382	0.3470	0.0100	51.3	50.0	2.6	20.0
Carbon tetrachloride	Ave	0.2863	0.2939	0.1000	51.3	50.0	2.7	20.0
Isobutyl alcohol	Lin2		0.0088	0.0010	1150	1250	-8.2	20.0
Benzene	Ave	1.001	1.021	0.5000	51.0	50.0	2.0	20.0
1,2-Dichloroethane	Ave	0.3428	0.3439	0.1000	50.2	50.0	0.3	20.0
n-Heptane	Ave	0.2979	0.3145		52.8	50.0	5.6	
Trichloroethene	Ave	0.9648	1.007	0.2000	52.2	50.0	4.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: ICV 280-621220/22 Calibration Date: 07/30/2023 19:40

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6579.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Lin2		0.2008	0.0100	160	160	-0.2	20.0
Methylcyclohexane	Ave	0.3006	0.3286	0.1000	54.7	50.0	9.3	20.0
1,2-Dichloropropane	Ave	0.2791	0.2956	0.1000	53.0	50.0	5.9	20.0
1,4-Dioxane	Lin2		0.0029	0.0010	838	1000	-16.2	20.0
Dibromomethane	Ave	0.1501	0.1527	0.0100	50.9	50.0	1.8	20.0
Dichlorobromomethane	Ave	0.3282	0.3422	0.2000	52.1	50.0	4.3	20.0
2-Chloroethyl vinyl ether	Lin2		0.1660	0.0100	49.7	50.0	-0.6	20.0
cis-1,3-Dichloropropene	Ave	1.645	1.632	0.2000	49.6	50.0	-0.8	20.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.2737	0.1000	194	200	-2.8	20.0
Toluene	Ave	1.036	1.034	0.4000	49.9	50.0	-0.3	20.0
trans-1,3-Dichloropropene	Ave	0.3664	0.3916	0.1000	53.4	50.0	6.9	20.0
Ethyl methacrylate	Lin2		1.294	0.0100	50.9	50.0	1.7	20.0
1,1,2-Trichloroethane	Ave	0.2049	0.2156	0.1000	52.6	50.0	5.2	20.0
Tetrachloroethene	Ave	0.6574	0.6955	0.2000	52.9	50.0	5.8	20.0
1,3-Dichloropropane	Ave	1.559	1.674	0.0100	53.7	50.0	7.4	20.0
2-Hexanone	Lin2		0.7503	0.1000	199	200	-0.5	20.0
Chlorodibromomethane	Ave	0.9293	0.9827	0.1000	52.9	50.0	5.7	20.0
1,2-Dibromoethane	Ave	0.8462	0.8879	0.0100	52.5	50.0	4.9	20.0
1-Chlorohexane	Ave	1.257	1.328	0.0100	42.2	40.0	5.6	20.0
Chlorobenzene	Ave	2.616	2.648	0.5000	50.6	50.0	1.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8832	0.9239	0.0100	52.3	50.0	4.6	20.0
Ethylbenzene	Ave	1.381	1.431	0.1000	51.8	50.0	3.6	20.0
m-Xylene & p-Xylene	Ave	1.676	1.741	0.1000	52.0	50.0	3.9	20.0
o-Xylene	Ave	1.621	1.728	0.3000	53.3	50.0	6.6	20.0
Styrene	Ave	2.688	2.996	0.3000	55.7	50.0	11.5	20.0
Bromoform	Ave	0.6012	0.6139	0.1000	51.1	50.0	2.1	20.0
Isopropylbenzene	Ave	2.537	2.723	0.1000	53.7	50.0	7.3	20.0
Cyclohexanone	Lin2		0.0478	0.0100	1300	1500	-13.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7448	0.7348	0.3000	49.3	50.0	-1.3	20.0
Bromobenzene	Ave	0.6352	0.6503	0.0100	51.2	50.0	2.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2253	0.2354	0.0100	52.2	50.0	4.5	20.0
1,2,3-Trichloropropane	Lin2		0.2064	0.0100	50.1	50.0	0.1	20.0
N-Propylbenzene	Ave	0.7003	0.7444	0.0100	53.1	50.0	6.3	20.0
2-Chlorotoluene	Ave	0.6301	0.6518	0.0100	51.7	50.0	3.4	20.0
1,3,5-Trimethylbenzene	Ave	2.108	2.224	0.0100	52.8	50.0	5.5	20.0
4-Chlorotoluene	Ave	0.6533	0.6668	0.0100	51.0	50.0	2.1	20.0
tert-Butylbenzene	Ave	1.721	1.826	0.0100	53.1	50.0	6.1	20.0
1,2,4-Trimethylbenzene	Lin2		2.278	0.0100	49.0	50.0	-2.0	20.0
sec-Butylbenzene	Ave	0.4847	0.5366	0.0100	55.4	50.0	10.7	20.0
1,3-Dichlorobenzene	Ave	1.203	1.204	0.6000	50.0	50.0	0.0	20.0
4-Isopropyltoluene	Lin2		2.255	0.0100	48.9	50.0	-2.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: ICV 280-621220/22 Calibration Date: 07/30/2023 19:40
 Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19
 Lab File ID: R_6579.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Ave	1.270	1.253	0.5000	49.3	50.0	-1.4	20.0
n-Butylbenzene	Lin2		2.140	0.0100	49.8	50.0	-0.3	20.0
1,2-Dichlorobenzene	Ave	1.129	1.163	0.4000	51.5	50.0	3.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1172	0.1030	0.0500	44.0	50.0	-12.1	20.0
1,2,4-Trichlorobenzene	Ave	0.5608	0.5266	0.2000	47.0	50.0	-6.1	20.0
Hexachlorobutadiene	Ave	0.2644	0.2496	0.0100	47.2	50.0	-5.6	20.0
Naphthalene	Lin1		1.143	0.0100	36.8	50.0	-26.3*	20.0
1,2,3-Trichlorobenzene	Qua		0.2635	0.0100	33.3	50.0	-33.3*	20.0
Dibromofluoromethane (Surr)	Ave	0.2627	0.2630	0.0100	50.0	50.0	0.0	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3141	0.3138	0.0100	50.0	50.0	-0.0	30.0
Toluene-d8 (Surr)	Ave	4.307	4.310	0.0100	50.0	50.0	0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.9681	0.9772	0.0100	50.5	50.0	0.9	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6579.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 30-Jul-2023 19:40:30 ALS Bottle#: 12 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icv
 Misc. Info.: 280-0124001-022
 Operator ID: bustillose Instrument ID: VMS_R1
 Sublist:
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 09:03:57 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: AF7X

Date: 31-Jul-2023 06:14:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	99	2172322	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.323	-0.004	88	541412	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.542	9.542	0.000	96	871566	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	571213	50.0	50.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.579	4.579	0.000	0	681637	50.0	50.0	
\$ 6 Toluene-d8 (Surr)	98	6.056	6.056	0.000	94	2333625	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.418	-0.004	84	851701	50.0	50.5	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	496124	50.0	47.6	
10 Chloromethane	50	1.711	1.715	-0.004	99	779788	50.0	47.2	
11 Vinyl chloride	62	1.801	1.805	-0.004	98	641049	50.0	48.3	
13 Bromomethane	94	2.067	2.071	-0.004	91	390197	50.0	44.9	
14 Chloroethane	64	2.154	2.157	-0.003	100	397373	50.0	46.4	
15 Dichlorofluoromethane	67	2.311	2.315	-0.004	97	1050234	50.0	52.1	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	99	692594	50.0	47.6	
18 Ethyl ether	59	2.547	2.547	0.000	96	460200	50.0	50.5	
20 Acrolein	56	2.648	2.652	-0.004	99	765040	493.8	500.7	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.723	2.723	0.000	96	320900	50.0	53.3	
22 1,1-Dichloroethene	96	2.727	2.727	0.000	95	440781	50.0	52.6	
23 Acetone	43	2.746	2.746	0.000	99	699535	200.0	185.2	
25 Iodomethane	142	2.843	2.843	0.000	99	609015	50.0	52.0	
26 Carbon disulfide	76	2.900	2.903	-0.003	100	1554136	50.0	46.8	
28 Methyl acetate	43	2.963	2.967	-0.004	99	859655	100.0	96.7	
29 3-Chloro-1-propene	41	2.982	2.986	-0.004	91	961319	50.0	46.3	
30 Methylene Chloride	84	3.076	3.076	0.000	99	549550	50.0	48.4	
31 2-Methyl-2-propanol	59	3.121	3.125	-0.004	96	460705	500.0	473.3	
32 Acrylonitrile	53	3.230	3.233	-0.003	98	2246234	500.0	515.0	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	1442051	50.0	52.3	
34 trans-1,2-Dichloroethene	96	3.271	3.271	0.000	94	484934	50.0	48.6	
35 Hexane	57	3.454	3.454	0.000	97	734021	50.0	52.2	
37 Vinyl acetate	43	3.556	3.559	-0.003	97	2024628	100.0	85.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	96	1046067	50.0	50.0	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1076368	200.0	197.3	
45 cis-1,2-Dichloroethene	96	3.975	3.975	0.000	85	553022	50.0	50.3	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	92	716393	50.0	48.5	
48 sec-Butyl Alcohol	45	4.065	4.065	0.000	99	1070135	1200.0	1085.1	
50 Chlorobromomethane	128	4.148	4.148	0.000	93	237666	50.0	51.4	
51 Tetrahydrofuran	42	4.159	4.163	-0.004	91	370411	100.0	104.0	
52 Chloroform	83	4.204	4.208	-0.004	95	932155	50.0	50.2	
53 1,1,1-Trichloroethane	97	4.343	4.347	-0.004	98	755912	50.0	52.0	
54 Cyclohexane	56	4.399	4.403	-0.004	94	999215	50.0	55.1	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	97	753862	50.0	51.3	
56 Carbon tetrachloride	117	4.459	4.463	-0.004	97	638478	50.0	51.3	
57 Isobutyl alcohol	41	4.478	4.478	0.000	94	479333	1250.0	1147.9	
58 Benzene	78	4.602	4.601	0.001	97	2217679	50.0	51.0	
59 1,2-Dichloroethane	62	4.631	4.635	-0.004	97	747168	50.0	50.2	
63 n-Heptane	43	4.789	4.793	-0.004	96	683130	50.0	52.8	
65 Trichloroethene	95	5.089	5.089	0.000	96	545440	50.0	52.2	
66 2-Pentanone	43	5.194	5.194	0.000	98	1395564	160.0	159.6	
67 Methylcyclohexane	55	5.276	5.280	-0.004	94	713735	50.0	54.7	
68 1,2-Dichloropropane	63	5.288	5.291	-0.003	96	642211	50.0	53.0	
70 1,4-Dioxane	88	5.336	5.344	-0.008	98	126289	1000.0	837.9	
71 Dibromomethane	93	5.359	5.362	-0.003	91	331743	50.0	50.9	
72 Dichlorobromomethane	83	5.482	5.486	-0.004	98	743343	50.0	52.1	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	360599	50.0	49.7	
75 cis-1,3-Dichloropropene	75	5.831	5.831	0.000	93	883592	50.0	49.6	
76 4-Methyl-2-pentanone (MIBK)	43	5.932	5.936	-0.004	99	2378264	200.0	194.4	
77 Toluene	91	6.112	6.112	0.000	97	2245144	50.0	49.9	
78 trans-1,3-Dichloropropene	75	6.292	6.296	-0.004	93	850763	50.0	53.4	
79 Ethyl methacrylate	69	6.318	6.322	-0.004	93	700684	50.0	50.9	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	92	468409	50.0	52.6	
81 Tetrachloroethene	164	6.551	6.555	-0.004	93	376560	50.0	52.9	
82 1,3-Dichloropropane	76	6.607	6.611	-0.004	95	906087	50.0	53.7	
83 2-Hexanone	43	6.633	6.633	0.000	98	1624778	200.0	199.1	
84 Chlorodibromomethane	129	6.798	6.802	-0.004	91	532026	50.0	52.9	
86 Ethylene Dibromide	107	6.914	6.918	-0.004	97	480738	50.0	52.5	
87 1-Chlorohexane	91	7.308	7.312	-0.004	92	575085	40.0	42.2	
88 Chlorobenzene	112	7.346	7.349	-0.003	93	1433887	50.0	50.6	
89 1,1,1,2-Tetrachloroethane	131	7.420	7.420	0.000	96	500215	50.0	52.3	
90 Ethylbenzene	106	7.424	7.424	0.000	99	774893	50.0	51.8	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	942616	50.0	52.0	
92 o-Xylene	106	7.900	7.904	-0.004	98	935469	50.0	53.3	
93 Styrene	104	7.919	7.919	0.000	96	1622212	50.0	55.7	
94 Bromoform	173	8.099	8.099	0.000	94	332381	50.0	51.1	
95 Isopropylbenzene	105	8.241	8.241	0.000	96	2373024	50.0	53.7	
97 Cyclohexanone	55	8.335	8.339	-0.004	96	776047	1500.0	1297.4	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.534	-0.004	94	640414	50.0	49.3	
99 Bromobenzene	156	8.556	8.560	-0.004	97	566822	50.0	51.2	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.575	-0.004	75	205193	50.0	52.2	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	86	179914	50.0	50.1	
102 N-Propylbenzene	120	8.639	8.643	-0.003	100	648764	50.0	53.1	
103 2-Chlorotoluene	126	8.736	8.732	0.004	95	568117	50.0	51.7	
104 1,3,5-Trimethylbenzene	105	8.815	8.819	-0.004	95	1938280	50.0	52.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.852	8.852	0.000	99	581143	50.0	51.0	
106 tert-Butylbenzene	119	9.122	9.122	0.000	94	1591714	50.0	53.1	
107 1,2,4-Trimethylbenzene	105	9.179	9.182	-0.003	98	1985209	50.0	49.0	
108 sec-Butylbenzene	134	9.344	9.340	0.004	95	467705	50.0	55.4	
110 1,3-Dichlorobenzene	146	9.463	9.467	-0.004	97	1049032	50.0	50.0	
111 4-Isopropyltoluene	119	9.490	9.493	-0.003	97	1965043	50.0	48.9	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	94	1091794	50.0	49.3	
114 n-Butylbenzene	91	9.895	9.898	-0.003	98	1865459	50.0	49.8	
115 1,2-Dichlorobenzene	146	9.917	9.921	-0.004	96	1013327	50.0	51.5	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.704	-0.003	81	89762	50.0	44.0	
118 1,2,4-Trichlorobenzene	180	11.521	11.525	-0.004	94	459002	50.0	47.0	
119 Hexachlorobutadiene	225	11.664	11.668	-0.004	97	217574	50.0	47.2	
120 Naphthalene	128	11.788	11.791	-0.003	98	996043	50.0	36.8	
121 1,2,3-Trichlorobenzene	180	12.009	12.013	-0.004	94	229624	50.0	33.3	
S 143 1,3-Dichloropropene, Total	1				0		100.0	103.0	
S 142 Trihalomethanes, Total	1				0		200.0	206.3	
S 141 Xylenes, Total	106				0		100.0	105.2	
S 140 1,2-Dichloroethene, Total	1				0		100.0	98.8	

QC Flag Legend

Processing Flags

Reagents:

MV-Gas B_00142

Amount Added: 10.00

Units: uL

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6579.D

Injection Date: 30-Jul-2023 19:40:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: icv

Worklist Smp#: 22

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

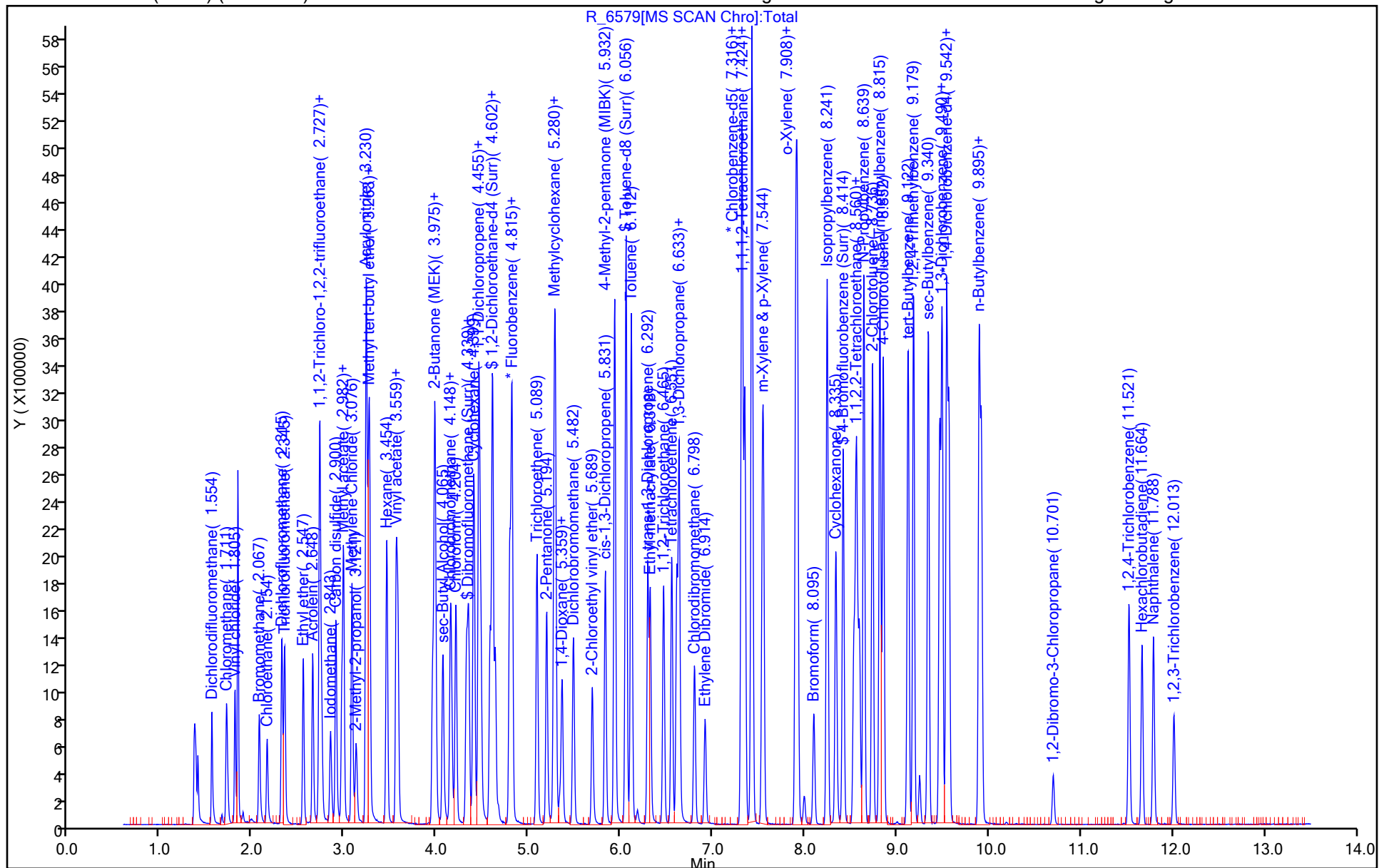
ALS Bottle#: 12

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: CCV 280-621775/2 Calibration Date: 08/03/2023 16:12

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6787aa.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2564	0.1000	53.5	50.0	6.9	20.0
Chloromethane	Lin1		0.3660	0.1000	48.2	50.0	-3.7	20.0
Vinyl chloride	Lin1		0.3139	0.0100	51.4	50.0	2.8	20.0
Bromomethane	Ave	0.1999	0.1378	0.0100	34.5	50.0	-31.1*	20.0
Chloroethane	Ave	0.1971	0.1875	0.0100	47.6	50.0	-4.9	20.0
Dichlorofluoromethane	Ave	0.4638	0.4606	0.0100	49.6	50.0	-0.7	20.0
Trichlorofluoromethane	Ave	0.3350	0.3616	0.0100	54.0	50.0	7.9	20.0
Ethyl ether	Ave	0.2097	0.2192	0.0100	52.3	50.0	4.5	20.0
Acrolein	Ave	0.0352	0.0343	0.0010	481	494	-2.6	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1386	0.1424	0.0500	51.4	50.0	2.7	20.0
1,1-Dichloroethene	Ave	0.1930	0.1911	0.0600	49.5	50.0	-0.9	20.0
Acetone	Lin2		0.0907	0.0100	210	200	5.0	20.0
Iodomethane	Ave	0.2695	0.2356	0.0100	43.7	50.0	-12.6	20.0
Carbon disulfide	Ave	0.7639	0.7126	0.1000	46.6	50.0	-6.7	20.0
Methyl acetate	Ave	0.2046	0.2271	0.0100	111	100	11.0	20.0
Allyl chloride	Ave	0.4777	0.4594	0.0100	48.1	50.0	-3.8	20.0
Methylene Chloride	Ave	0.2612	0.2549	0.0100	48.8	50.0	-2.4	20.0
2-Methyl-2-propanol	Ave	0.0224	0.0234	0.0010	523	500	4.7	20.0
Acrylonitrile	Ave	0.1004	0.1118	0.0100	557	500	11.4	20.0
Methyl tert-butyl ether	Ave	0.6343	0.6773	0.1000	53.4	50.0	6.8	20.0
trans-1,2-Dichloroethene	Ave	0.2299	0.2250	0.1000	48.9	50.0	-2.1	20.0
Hexane	Ave	1.299	1.314	0.0100	50.6	50.0	1.1	20.0
Vinyl acetate	Lin2		0.5414	0.0100	99.0	100	-1.0	20.0
1,1-Dichloroethane	Ave	0.4818	0.5007	0.1000	52.0	50.0	3.9	20.0
2-Butanone (MEK)	Ave	0.1256	0.1429	0.0100	228	200	13.8	20.0
cis-1,2-Dichloroethene	Ave	0.2532	0.2530	0.1000	50.0	50.0	-0.0	20.0
2,2-Dichloropropane	Ave	0.3403	0.3147	0.0100	46.2	50.0	-7.5	20.0
sec-Butyl Alcohol	Lin2		0.0228	0.0100	1200	1200	0.3	20.0
Chlorobromomethane	Ave	0.1065	0.1117	0.0500	52.4	50.0	4.8	20.0
Tetrahydrofuran	Ave	0.0820	0.0971	0.0010	118	100	18.4	20.0
Chloroform	Ave	0.4272	0.4390	0.2000	51.4	50.0	2.8	20.0
1,1,1-Trichloroethane	Ave	0.3347	0.3529	0.0500	52.7	50.0	5.4	20.0
Cyclohexane	Ave	0.4171	0.4582	0.0100	54.9	50.0	9.8	20.0
1,1-Dichloropropene	Ave	0.3382	0.3568	0.0100	52.8	50.0	5.5	20.0
Carbon tetrachloride	Ave	0.2863	0.3012	0.1000	52.6	50.0	5.2	20.0
Isobutyl alcohol	Lin2		0.0097	0.0010	1260	1250	1.2	20.0
Benzene	Ave	1.001	1.033	0.2000	51.6	50.0	3.2	20.0
1,2-Dichloroethane	Ave	0.3428	0.3638	0.0700	53.1	50.0	6.1	20.0
n-Heptane	Ave	0.2979	0.3009		50.5	50.0	1.0	
Trichloroethene	Ave	0.9648	0.997	0.2000	51.7	50.0	3.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: CCV 280-621775/2 Calibration Date: 08/03/2023 16:12

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6787aa.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Lin2		0.2189	0.0010	174	160	8.7	20.0
Methylcyclohexane	Ave	0.3006	0.3300	0.0500	54.9	50.0	9.8	20.0
1,2-Dichloropropane	Ave	0.2791	0.2958	0.1000	53.0	50.0	6.0	20.0
1,4-Dioxane	Lin2		0.0031	0.0010	902	1000	-9.8	20.0
Dibromomethane	Ave	0.1501	0.1525	0.0100	50.8	50.0	1.6	20.0
Dichlorobromomethane	Ave	0.3282	0.3477	0.2000	53.0	50.0	5.9	20.0
2-Chloroethyl vinyl ether	Lin2		0.1730	0.0100	51.8	50.0	3.6	20.0
cis-1,3-Dichloropropene	Ave	1.645	1.736	0.2000	52.8	50.0	5.5	20.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.3015	0.0300	214	200	7.0	20.0
Toluene	Ave	1.036	1.059	0.3000	51.1	50.0	2.2	20.0
trans-1,3-Dichloropropene	Ave	0.3664	0.3805	0.2000	51.9	50.0	3.9	20.0
Ethyl methacrylate	Lin2		1.342	0.0100	52.7	50.0	5.4	20.0
1,1,2-Trichloroethane	Ave	0.2049	0.2126	0.1000	51.9	50.0	3.7	20.0
Tetrachloroethene	Ave	0.6574	0.6656	0.1000	50.6	50.0	1.3	20.0
1,3-Dichloropropane	Ave	1.559	1.705	0.0100	54.7	50.0	9.4	20.0
2-Hexanone	Lin2		0.8362	0.0100	222	200	10.8	20.0
Chlorodibromomethane	Ave	0.9293	0.9522	0.1000	51.2	50.0	2.5	20.0
1,2-Dibromoethane	Ave	0.8462	0.8980	0.1000	53.1	50.0	6.1	20.0
1-Chlorohexane	Ave	1.257	1.257	0.0100	40.0	40.0	-0.0	20.0
Chlorobenzene	Ave	2.616	2.591	0.3000	49.5	50.0	-1.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8832	0.9202	0.0100	52.1	50.0	4.2	20.0
Ethylbenzene	Ave	1.381	1.425	0.3000	51.6	50.0	3.1	20.0
m-Xylene & p-Xylene	Ave	1.676	1.795	0.1000	53.6	50.0	7.1	20.0
o-Xylene	Ave	1.621	1.748	0.2000	53.9	50.0	7.8	20.0
Styrene	Ave	2.688	2.932	0.2000	54.5	50.0	9.1	20.0
Bromoform	Ave	0.6012	0.6086	0.1000	50.6	50.0	1.2	20.0
Isopropylbenzene	Ave	2.537	2.662	0.3000	52.5	50.0	4.9	20.0
Cyclohexanone	Lin2		0.0635	0.0010	1720	1500	14.7	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7448	0.7740	0.3000	52.0	50.0	3.9	20.0
Bromobenzene	Ave	0.6352	0.6367	0.0100	50.1	50.0	0.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2253	0.2238	0.0100	49.7	50.0	-0.7	20.0
1,2,3-Trichloropropane	Lin2		0.2126	0.0100	51.6	50.0	3.1	20.0
N-Propylbenzene	Ave	0.7003	0.7207	0.0100	51.5	50.0	2.9	20.0
2-Chlorotoluene	Ave	0.6301	0.6497	0.0100	51.5	50.0	3.1	20.0
1,3,5-Trimethylbenzene	Ave	2.108	2.235	0.0100	53.0	50.0	6.1	20.0
4-Chlorotoluene	Ave	0.6533	0.6693	0.0100	51.2	50.0	2.5	20.0
tert-Butylbenzene	Ave	1.721	1.825	0.0100	53.0	50.0	6.1	20.0
1,2,4-Trimethylbenzene	Lin2		2.373	0.3000	51.0	50.0	2.0	20.0
sec-Butylbenzene	Ave	0.4847	0.5131	0.0100	52.9	50.0	5.8	20.0
1,3-Dichlorobenzene	Ave	1.203	1.182	0.5000	49.1	50.0	-1.7	20.0
4-Isopropyltoluene	Lin2		2.248	0.0100	48.8	50.0	-2.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621775/2 Calibration Date: 08/03/2023 16:12
 Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19
 Lab File ID: R_6787aa.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Ave	1.270	1.214	0.5000	47.8	50.0	-4.4	20.0
n-Butylbenzene	Lin2		2.104	0.0100	49.0	50.0	-2.0	20.0
1,2-Dichlorobenzene	Ave	1.129	1.125	0.5000	49.8	50.0	-0.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1172	0.1129	0.0100	48.2	50.0	-3.6	20.0
1,2,4-Trichlorobenzene	Ave	0.5608	0.5299	0.2000	47.2	50.0	-5.5	20.0
Hexachlorobutadiene	Ave	0.2644	0.2234	0.0100	42.2	50.0	-15.5	20.0
Naphthalene	Lin1		1.277	0.0100	41.1	50.0	-17.7	20.0
1,2,3-Trichlorobenzene	Qua		0.3123	0.3000	39.4	50.0	-21.2*	20.0
Dibromofluoromethane (Surr)	Ave	0.2627	0.2641	0.0100	50.3	50.0	0.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3141	0.3335	0.0100	53.1	50.0	6.2	20.0
Toluene-d8 (Surr)	Ave	4.307	4.378	0.0100	50.8	50.0	1.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9681	1.001	0.0100	51.7	50.0	3.4	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787aa.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Aug-2023 16:12:30 ALS Bottle#: 29 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-033
 Operator ID: wickham Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:27:59 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:02:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.812	0.000	98	1989859	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	89	489881	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	97	788548	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.321	0.000	92	525529	50.0	50.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	663653	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2144910	50.0	50.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	789115	50.0	51.7	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	510258	50.0	53.5	
10 Chloromethane	50	1.715	1.715	0.000	99	728370	50.0	48.2	
11 Vinyl chloride	62	1.801	1.801	0.000	98	624663	50.0	51.4	
13 Bromomethane	94	2.068	2.068	0.000	91	274158	50.0	34.5	
14 Chloroethane	64	2.150	2.150	0.000	99	373052	50.0	47.6	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	916433	50.0	49.6	
16 Trichlorofluoromethane	101	2.341	2.341	0.000	99	719446	50.0	54.0	
18 Ethyl ether	59	2.547	2.547	0.000	97	436098	50.0	52.3	
20 Acrolein	56	2.649	2.649	0.000	99	673128	493.8	480.9	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.724	2.724	0.000	96	283397	50.0	51.4	
22 1,1-Dichloroethene	96	2.724	2.724	0.000	93	380349	50.0	49.5	
23 Acetone	43	2.746	2.746	0.000	99	722012	200.0	210.1	
25 Iodomethane	142	2.840	2.840	0.000	100	468858	50.0	43.7	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1417939	50.0	46.6	
28 Methyl acetate	43	2.967	2.967	0.000	99	903667	100.0	111.0	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	914150	50.0	48.1	
30 Methylene Chloride	84	3.072	3.072	0.000	99	507116	50.0	48.8	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	96	466530	500.0	523.3	
32 Acrylonitrile	53	3.230	3.230	0.000	98	2225490	500.0	557.0	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	1347806	50.0	53.4	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	447673	50.0	48.9	
35 Hexane	57	3.455	3.455	0.000	98	643725	50.0	50.6	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2154533	100.0	99.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.575	3.575	0.000	96	996336	50.0	52.0	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1137105	200.0	227.6	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	503486	50.0	50.0	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	91	626266	50.0	46.2	
48 sec-Butyl Alcohol	45	4.066	4.066	0.000	99	1088363	1200.0	1203.4	
50 Chlorobromomethane	128	4.148	4.148	0.000	91	222200	50.0	52.4	
51 Tetrahydrofuran	42	4.156	4.156	0.000	93	386319	100.0	118.4	
52 Chloroform	83	4.204	4.204	0.000	95	873515	50.0	51.4	
53 1,1,1-Trichloroethane	97	4.343	4.343	0.000	97	702180	50.0	52.7	
54 Cyclohexane	56	4.399	4.399	0.000	96	911699	50.0	54.9	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	96	709968	50.0	52.8	
56 Carbon tetrachloride	117	4.459	4.459	0.000	96	599353	50.0	52.6	
57 Isobutyl alcohol	41	4.474	4.474	0.000	93	484162	1250.0	1264.7	
58 Benzene	78	4.602	4.602	0.000	98	2056206	50.0	51.6	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	723884	50.0	53.1	
63 n-Heptane	43	4.789	4.789	0.000	98	598778	50.0	50.5	
65 Trichloroethene	95	5.085	5.085	0.000	96	488565	50.0	51.7	
66 2-Pentanone	43	5.190	5.190	0.000	98	1393974	160.0	173.9	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	656712	50.0	54.9	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	95	588636	50.0	53.0	
70 1,4-Dioxane	88	5.336	5.336	0.000	98	124670	1000.0	902.2	
71 Dibromomethane	93	5.359	5.359	0.000	90	303397	50.0	50.8	
72 Dichlorobromomethane	83	5.483	5.483	0.000	98	691799	50.0	53.0	
74 2-Chloroethyl vinyl ether	63	5.685	5.685	0.000	92	344266	50.0	51.8	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	850623	50.0	52.8	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2399779	200.0	214.0	
77 Toluene	91	6.112	6.112	0.000	97	2107028	50.0	51.1	
78 trans-1,3-Dichloropropene	75	6.289	6.289	0.000	94	757166	50.0	51.9	
79 Ethyl methacrylate	69	6.319	6.319	0.000	93	657452	50.0	52.7	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	92	422976	50.0	51.9	
81 Tetrachloroethene	164	6.551	6.551	0.000	92	326058	50.0	50.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	94	835149	50.0	54.7	
83 2-Hexanone	43	6.630	6.630	0.000	98	1638496	200.0	221.7	
84 Chlorodibromomethane	129	6.798	6.798	0.000	91	466450	50.0	51.2	
86 Ethylene Dibromide	107	6.915	6.915	0.000	98	439918	50.0	53.1	
87 1-Chlorohexane	91	7.308	7.308	0.000	89	492704	40.0	40.0	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1269037	50.0	49.5	
89 1,1,1,2-Tetrachloroethane	131	7.417	7.417	0.000	95	450784	50.0	52.1	
90 Ethylbenzene	106	7.424	7.424	0.000	99	697963	50.0	51.6	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	879254	50.0	53.6	
92 o-Xylene	106	7.900	7.900	0.000	98	856394	50.0	53.9	
93 Styrene	104	7.915	7.915	0.000	95	1436256	50.0	54.5	
94 Bromoform	173	8.095	8.095	0.000	93	298156	50.0	50.6	
95 Isopropylbenzene	105	8.242	8.242	0.000	97	2099274	50.0	52.5	
97 Cyclohexanone	55	8.335	8.335	0.000	97	933479	1500.0	1720.9	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	610300	50.0	52.0	
99 Bromobenzene	156	8.553	8.553	0.000	97	502070	50.0	50.1	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	70	176445	50.0	49.7	
101 1,2,3-Trichloropropane	110	8.590	8.590	0.000	87	167624	50.0	51.6	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	568342	50.0	51.5	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	512281	50.0	51.5	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	95	1762586	50.0	53.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	527793	50.0	51.2	
106 tert-Butylbenzene	119	9.119	9.119	0.000	95	1439238	50.0	53.0	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1870987	50.0	51.0	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	404569	50.0	52.9	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	97	931808	50.0	49.1	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1772519	50.0	48.8	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	957236	50.0	47.8	
114 n-Butylbenzene	91	9.891	9.891	0.000	98	1659252	50.0	49.0	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	886723	50.0	49.8	
116 1,2-Dibromo-3-Chloropropane	157	10.697	10.697	0.000	77	89013	50.0	48.2	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	417841	50.0	47.2	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	96	176140	50.0	42.2	
120 Naphthalene	128	11.788	11.788	0.000	98	1006694	50.0	41.1	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	246255	50.0	39.4	
S 143 1,3-Dichloropropene, Total	1				0		100.0	104.7	
S 142 Trihalomethanes, Total	1				0		200.0	206.2	
S 141 Xylenes, Total	106				0		100.0	107.5	
S 140 1,2-Dichloroethene, Total	1				0		100.0	98.9	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621775/3 Calibration Date: 08/03/2023 16:33
 Instrument ID: VMS_R1 Calib Start Date: 03/29/2022 17:08
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 03/29/2022 19:40
 Lab File ID: R_6788a.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin2		0.0039*	0.0100	2440	1500	62.8*	20.0
Isopropyl alcohol	Ave	0.0128	0.0168	0.0100	328	250	31.2*	20.0
Acetonitrile	Ave	0.0298	0.0427	0.0100	359	250	43.5*	20.0
Isopropyl ether	Ave	0.1747	0.1773	0.0100	25.4	25.0	1.5	20.0
Chloroprene	Ave	0.3282	0.4085	0.0100	31.1	25.0	24.5*	20.0
Tert-butyl ethyl ether	Ave	0.6061	0.7312	0.0100	30.2	25.0	20.6*	20.0
Ethyl acetate	Ave	0.1897	0.2651	0.0100	69.9	50.0	39.7*	20.0
Propionitrile	Ave	0.0358	0.0392	0.0100	274	250	9.4	20.0
Methacrylonitrile	Ave	0.1414	0.1886	0.0100	334	250	33.4*	20.0
Tert-amyl methyl ether	Ave	0.5540	0.6107	0.0100	27.6	25.0	10.2	20.0
n-Butanol	Lin1		0.0058*	0.0100	561	625	-10.3	20.0
Methyl methacrylate	Ave	0.0612	0.0560	0.0100	45.8	50.0	-8.4	20.0
2-Nitropropane	Ave	0.0544	0.0666	0.0100	61.2	50.0	22.3*	20.0
cis-1,4-Dichloro-2-butene	Lin1		0.2166	0.0100	53.9	50.0	7.8	20.0
1,2,3-Trimethylbenzene	Ave	2.297	2.350	0.0100	25.6	25.0	2.3	20.0
1,3,5-Trichlorobenzene	Ave	0.8098	0.6843	0.0100	21.1	25.0	-15.5	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788a.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Aug-2023 16:33:30 ALS Bottle#: 30 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-034
 Operator ID: wickhamt Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:15:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	1961989	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	474990	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	715399	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	525995	50.0	51.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	645188	50.0	52.4	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2058646	50.0	50.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	739427	50.0	53.4	
17 Ethanol	45	2.457	2.457	0.000	100	230074	1500.0	2441.7	
24 Isopropyl alcohol	45	2.832	2.832	0.000	98	164716	250.0	328.1	
27 Acetonitrile	41	2.945	2.945	0.000	100	419209	250.0	358.8	
38 Isopropyl ether	87	3.574	3.574	0.000	95	173918	25.0	25.4	
40 2-Chloro-1,3-butadiene	53	3.627	3.627	0.000	94	400733	25.0	31.1	
41 Tert-butyl ethyl ether	59	3.833	3.833	0.000	99	717298	25.0	30.2	
44 Ethyl acetate	43	3.968	3.968	0.000	99	520043	50.0	69.9	
47 Propionitrile	54	3.998	3.998	0.000	99	384491	250.0	273.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	95	1850469	250.0	333.6	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	92	599097	25.0	27.6	
64 n-Butanol	56	4.969	4.969	0.000	91	141828	625.0	560.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	109901	50.0	45.8	
73 2-Nitropropane	41	5.647	5.647	0.000	99	130655	50.0	61.2	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.298	0.000	0	154920	50.0	53.9	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	840739	25.0	25.6	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	244769	25.0	21.1	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 23:28:00

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788a.D

Injection Date: 03-Aug-2023 16:33:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

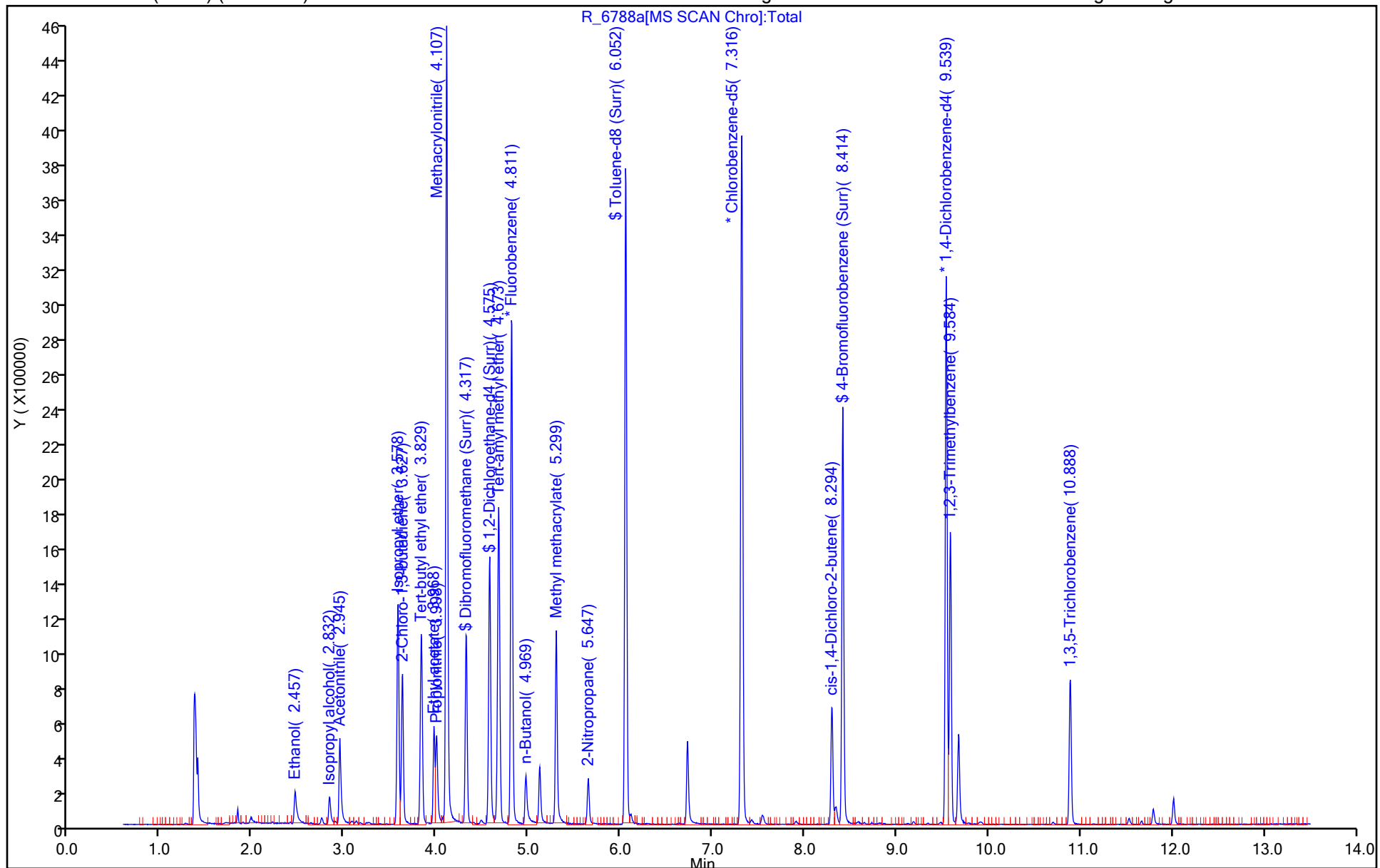
ALS Bottle#: 30

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab Sample ID: CCV 280-621775/3 Calibration Date: 08/03/2023 16:33
Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32
GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19
Lab File ID: R_6788a.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2627	0.2681	0.0100	51.0	50.0	2.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3141	0.3288	0.0100	52.4	50.0	4.7	20.0
Toluene-d8 (Surr)	Ave	4.307	4.334	0.0100	50.3	50.0	0.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9681	1.034	0.0100	53.4	50.0	6.8	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788a.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 03-Aug-2023 16:33:30 ALS Bottle#: 30 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-034
 Operator ID: wickhamt Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:15:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	1961989	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	474990	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	715399	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	525995	50.0	51.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	645188	50.0	52.4	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2058646	50.0	50.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	739427	50.0	53.4	
17 Ethanol	45	2.457	2.457	0.000	100	230074	1500.0	2441.7	
24 Isopropyl alcohol	45	2.832	2.832	0.000	98	164716	250.0	328.1	
27 Acetonitrile	41	2.945	2.945	0.000	100	419209	250.0	358.8	
38 Isopropyl ether	87	3.574	3.574	0.000	95	173918	25.0	25.4	
40 2-Chloro-1,3-butadiene	53	3.627	3.627	0.000	94	400733	25.0	31.1	
41 Tert-butyl ethyl ether	59	3.833	3.833	0.000	99	717298	25.0	30.2	
44 Ethyl acetate	43	3.968	3.968	0.000	99	520043	50.0	69.9	
47 Propionitrile	54	3.998	3.998	0.000	99	384491	250.0	273.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	95	1850469	250.0	333.6	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	92	599097	25.0	27.6	
64 n-Butanol	56	4.969	4.969	0.000	91	141828	625.0	560.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	109901	50.0	45.8	
73 2-Nitropropane	41	5.647	5.647	0.000	99	130655	50.0	61.2	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.298	0.000	0	154920	50.0	53.9	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	840739	25.0	25.6	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	244769	25.0	21.1	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

MV-Supp A_00083	Amount Added: 25.00	Units: uL	
mv-IS_SS_00066	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 04-Aug-2023 23:28:00

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788a.D

Injection Date: 03-Aug-2023 16:33:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

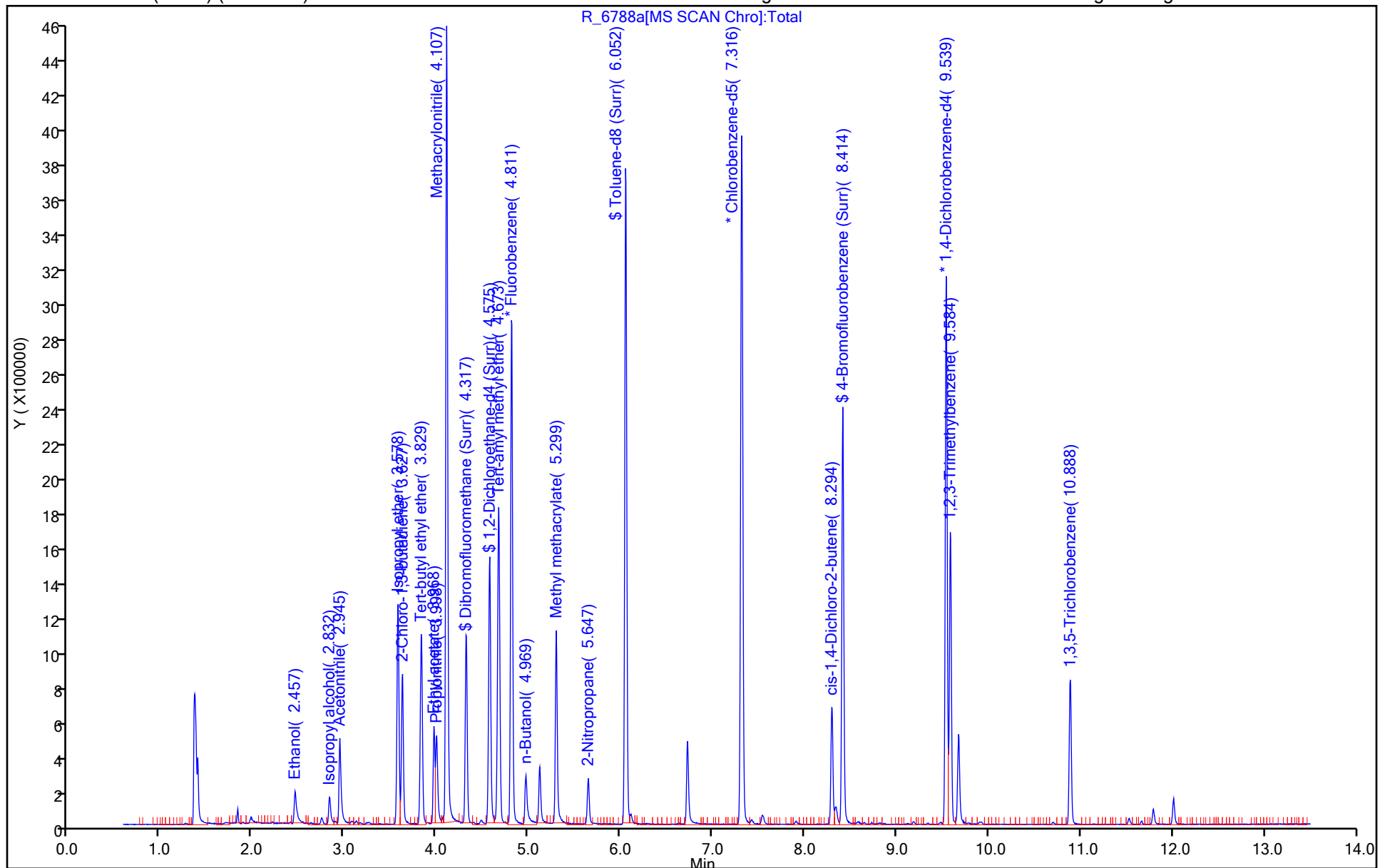
ALS Bottle#: 30

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: CCV 280-621894/2 Calibration Date: 08/04/2023 15:54

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6844b.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Lin1		0.2380	0.1000	49.6	50.0	-0.8	20.0
Chloromethane	Lin1		0.3518	0.1000	46.3	50.0	-7.5	20.0
Vinyl chloride	Lin1		0.2945	0.0100	48.2	50.0	-3.6	20.0
Bromomethane	Ave	0.1999	0.1453	0.0100	36.3	50.0	-27.3*	20.0
Chloroethane	Ave	0.1971	0.1832	0.0100	46.5	50.0	-7.0	20.0
Dichlorofluoromethane	Ave	0.4638	0.4550	0.0100	49.0	50.0	-1.9	20.0
Trichlorofluoromethane	Ave	0.3350	0.3252	0.0100	48.5	50.0	-2.9	20.0
Ethyl ether	Ave	0.2097	0.2181	0.0100	52.0	50.0	4.0	20.0
Acrolein	Ave	0.0352	0.0315	0.0010	443	494	-10.3	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.1386	0.1389	0.0500	50.1	50.0	0.2	20.0
1,1-Dichloroethene	Ave	0.1930	0.1914	0.0600	49.6	50.0	-0.8	20.0
Acetone	Lin2		0.0906	0.0100	210	200	4.9	20.0
Iodomethane	Ave	0.2695	0.2102	0.0100	39.0	50.0	-22.0*	20.0
Carbon disulfide	Ave	0.7639	0.7185	0.1000	47.0	50.0	-5.9	20.0
Methyl acetate	Ave	0.2046	0.2145	0.0100	105	100	4.9	20.0
Allyl chloride	Ave	0.4777	0.4523	0.0100	47.3	50.0	-5.3	20.0
Methylene Chloride	Ave	0.2612	0.2516	0.0100	48.2	50.0	-3.7	20.0
2-Methyl-2-propanol	Ave	0.0224	0.0224	0.0010	501	500	0.2	20.0
Acrylonitrile	Ave	0.1004	0.1117	0.0100	556	500	11.2	20.0
Methyl tert-butyl ether	Ave	0.6343	0.6650	0.1000	52.4	50.0	4.8	20.0
trans-1,2-Dichloroethene	Ave	0.2299	0.2219	0.1000	48.3	50.0	-3.5	20.0
Hexane	Ave	1.299	1.273	0.0100	49.0	50.0	-2.0	20.0
Vinyl acetate	Lin2		0.4646	0.0100	85.1	100	-14.9	20.0
1,1-Dichloroethane	Ave	0.4818	0.4934	0.1000	51.2	50.0	2.4	20.0
2-Butanone (MEK)	Ave	0.1256	0.1416	0.0100	226	200	12.8	20.0
cis-1,2-Dichloroethene	Ave	0.2532	0.2536	0.1000	50.1	50.0	0.2	20.0
2,2-Dichloropropane	Ave	0.3403	0.3193	0.0100	46.9	50.0	-6.2	20.0
sec-Butyl Alcohol	Lin2		0.0217	0.0100	1150	1200	-4.2	20.0
Chlorobromomethane	Ave	0.1065	0.1096	0.0500	51.5	50.0	2.9	20.0
Tetrahydrofuran	Ave	0.0820	0.0956	0.0010	117	100	16.6	20.0
Chloroform	Ave	0.4272	0.4447	0.2000	52.1	50.0	4.1	20.0
1,1,1-Trichloroethane	Ave	0.3347	0.3515	0.0500	52.5	50.0	5.0	20.0
Cyclohexane	Ave	0.4171	0.4452	0.0100	53.4	50.0	6.7	20.0
1,1-Dichloropropene	Ave	0.3382	0.3530	0.0100	52.2	50.0	4.4	20.0
Carbon tetrachloride	Ave	0.2863	0.3042	0.1000	53.1	50.0	6.3	20.0
Isobutyl alcohol	Lin2		0.0101	0.0010	1310	1250	4.6	20.0
Benzene	Ave	1.001	1.013	0.2000	50.6	50.0	1.2	20.0
1,2-Dichloroethane	Ave	0.3428	0.3686	0.0700	53.8	50.0	7.5	20.0
n-Heptane	Ave	0.2979	0.2933		49.2	50.0	-1.6	
Trichloroethene	Ave	0.9648	0.9713	0.2000	50.3	50.0	0.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Lab Sample ID: CCV 280-621894/2 Calibration Date: 08/04/2023 15:54

Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32

GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19

Lab File ID: R_6844b.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Pentanone	Lin2		0.2160	0.0010	172	160	7.3	20.0
Methylcyclohexane	Ave	0.3006	0.3262	0.0500	54.3	50.0	8.5	20.0
1,2-Dichloropropane	Ave	0.2791	0.2952	0.1000	52.9	50.0	5.8	20.0
1,4-Dioxane	Lin2		0.0029	0.0010	837	1000	-16.3	20.0
Dibromomethane	Ave	0.1501	0.1523	0.0100	50.7	50.0	1.5	20.0
Dichlorobromomethane	Ave	0.3282	0.3496	0.2000	53.3	50.0	6.5	20.0
2-Chloroethyl vinyl ether	Lin2		0.1692	0.0100	50.7	50.0	1.3	20.0
cis-1,3-Dichloropropene	Ave	1.645	1.681	0.2000	51.1	50.0	2.2	20.0
4-Methyl-2-pentanone (MIBK)	Lin2		0.3052	0.0300	217	200	8.3	20.0
Toluene	Ave	1.036	1.039	0.3000	50.1	50.0	0.2	20.0
trans-1,3-Dichloropropene	Ave	0.3664	0.3867	0.2000	52.8	50.0	5.5	20.0
Ethyl methacrylate	Lin2		1.284	0.0100	50.4	50.0	0.9	20.0
1,1,2-Trichloroethane	Ave	0.2049	0.2142	0.1000	52.3	50.0	4.6	20.0
Tetrachloroethene	Ave	0.6574	0.6576	0.1000	50.0	50.0	0.0	20.0
1,3-Dichloropropane	Ave	1.559	1.663	0.0100	53.4	50.0	6.7	20.0
2-Hexanone	Lin2		0.8136	0.0100	216	200	7.9	20.0
Chlorodibromomethane	Ave	0.9293	0.9436	0.1000	50.8	50.0	1.5	20.0
1,2-Dibromoethane	Ave	0.8462	0.8663	0.1000	51.2	50.0	2.4	20.0
1-Chlorohexane	Ave	1.257	1.212	0.0100	38.6	40.0	-3.6	20.0
Chlorobenzene	Ave	2.616	2.569	0.3000	49.1	50.0	-1.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8832	0.9172	0.0100	51.9	50.0	3.8	20.0
Ethylbenzene	Ave	1.381	1.402	0.3000	50.7	50.0	1.5	20.0
m-Xylene & p-Xylene	Ave	1.676	1.699	0.1000	50.7	50.0	1.4	20.0
o-Xylene	Ave	1.621	1.714	0.2000	52.8	50.0	5.7	20.0
Styrene	Ave	2.688	2.904	0.2000	54.0	50.0	8.0	20.0
Bromoform	Ave	0.6012	0.6091	0.1000	50.7	50.0	1.3	20.0
Isopropylbenzene	Ave	2.537	2.634	0.3000	51.9	50.0	3.8	20.0
Cyclohexanone	Lin2		0.0461	0.0010	1250	1500	-16.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7448	0.7561	0.3000	50.8	50.0	1.5	20.0
Bromobenzene	Ave	0.6352	0.6403	0.0100	50.4	50.0	0.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2253	0.2366	0.0100	52.5	50.0	5.0	20.0
1,2,3-Trichloropropane	Lin2		0.2191	0.0100	53.1	50.0	6.2	20.0
N-Propylbenzene	Ave	0.7003	0.7150	0.0100	51.0	50.0	2.1	20.0
2-Chlorotoluene	Ave	0.6301	0.6422	0.0100	51.0	50.0	1.9	20.0
1,3,5-Trimethylbenzene	Ave	2.108	2.257	0.0100	53.5	50.0	7.1	20.0
4-Chlorotoluene	Ave	0.6533	0.6691	0.0100	51.2	50.0	2.4	20.0
tert-Butylbenzene	Ave	1.721	1.799	0.0100	52.3	50.0	4.6	20.0
1,2,4-Trimethylbenzene	Lin2		2.348	0.3000	50.5	50.0	1.0	20.0
sec-Butylbenzene	Ave	0.4847	0.5094	0.0100	52.5	50.0	5.1	20.0
1,3-Dichlorobenzene	Ave	1.203	1.201	0.5000	49.9	50.0	-0.1	20.0
4-Isopropyltoluene	Lin2		2.270	0.0100	49.2	50.0	-1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621894/2 Calibration Date: 08/04/2023 15:54
 Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19
 Lab File ID: R_6844b.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dichlorobenzene	Ave	1.270	1.230	0.5000	48.4	50.0	-3.2	20.0
n-Butylbenzene	Lin2		2.113	0.0100	49.2	50.0	-1.6	20.0
1,2-Dichlorobenzene	Ave	1.129	1.137	0.5000	50.4	50.0	0.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1172	0.1153	0.0100	49.2	50.0	-1.5	20.0
1,2,4-Trichlorobenzene	Ave	0.5608	0.5311	0.2000	47.4	50.0	-5.3	20.0
Hexachlorobutadiene	Ave	0.2644	0.2327	0.0100	44.0	50.0	-12.0	20.0
Naphthalene	Lin1		1.264	0.0100	40.7	50.0	-18.5	20.0
1,2,3-Trichlorobenzene	Qua		0.3220	0.3000	40.6	50.0	-18.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2627	0.2635	0.0100	50.1	50.0	0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3141	0.3378	0.0100	53.8	50.0	7.6	20.0
Toluene-d8 (Surr)	Ave	4.307	4.300	0.0100	49.9	50.0	-0.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9681	0.9819	0.0100	50.7	50.0	1.4	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6844b.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 04-Aug-2023 15:54:30 ALS Bottle#: 28 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124185-033
 Operator ID: wickham Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub170
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 10:35:42 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

First Level Reviewer: J6NB

Date: 04-Aug-2023 16:48:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.812	0.000	98	1816066	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.319	0.000	89	459352	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	97	733743	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	91	478537	50.0	50.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	613534	50.0	53.8	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1975066	50.0	49.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	720498	50.0	50.7	
9 Dichlorodifluoromethane	85	1.550	1.550	0.000	99	432198	50.0	49.6	
10 Chloromethane	50	1.715	1.715	0.000	99	638828	50.0	46.3	
11 Vinyl chloride	62	1.805	1.805	0.000	98	534746	50.0	48.2	
13 Bromomethane	94	2.067	2.067	0.000	91	263944	50.0	36.3	
14 Chloroethane	64	2.154	2.154	0.000	99	332784	50.0	46.5	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	826220	50.0	49.0	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	99	590631	50.0	48.5	
18 Ethyl ether	59	2.547	2.547	0.000	96	396010	50.0	52.0	
20 Acrolein	56	2.649	2.649	0.000	99	565713	493.8	442.8	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.724	2.724	0.000	97	252262	50.0	50.1	
22 1,1-Dichloroethene	96	2.724	2.724	0.000	94	347518	50.0	49.6	
23 Acetone	43	2.746	2.746	0.000	99	657999	200.0	209.8	
25 Iodomethane	142	2.840	2.840	0.000	100	381671	50.0	39.0	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1304827	50.0	47.0	
28 Methyl acetate	43	2.963	2.963	0.000	99	779095	100.0	104.9	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	91	821471	50.0	47.3	
30 Methylene Chloride	84	3.076	3.076	0.000	99	456912	50.0	48.2	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	95	407584	500.0	500.9	
32 Acrylonitrile	53	3.230	3.230	0.000	98	2028135	500.0	556.2	
33 Methyl tert-butyl ether	73	3.252	3.252	0.000	98	1207638	50.0	52.4	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	93	402930	50.0	48.3	
35 Hexane	57	3.454	3.454	0.000	97	584900	50.0	49.0	
37 Vinyl acetate	43	3.556	3.556	0.000	97	1687471	100.0	85.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 1,1-Dichloroethane	63	3.574	3.574	0.000	97	896087	50.0	51.2	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1028970	200.0	225.6	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	460617	50.0	50.1	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	92	579822	50.0	46.9	
48 sec-Butyl Alcohol	45	4.062	4.062	0.000	99	947915	1200.0	1149.0	
50 Chlorobromomethane	128	4.144	4.144	0.000	91	199037	50.0	51.5	
51 Tetrahydrofuran	42	4.155	4.155	0.000	92	347138	100.0	116.6	
52 Chloroform	83	4.204	4.204	0.000	95	807686	50.0	52.1	
53 1,1,1-Trichloroethane	97	4.339	4.339	0.000	97	638273	50.0	52.5	
54 Cyclohexane	56	4.399	4.399	0.000	96	808494	50.0	53.4	
55 1,1-Dichloropropene	75	4.452	4.452	0.000	97	641034	50.0	52.2	
56 Carbon tetrachloride	117	4.459	4.459	0.000	96	552472	50.0	53.1	
57 Isobutyl alcohol	41	4.474	4.474	0.000	94	457117	1250.0	1308.0	
58 Benzene	78	4.602	4.602	0.000	98	1840069	50.0	50.6	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	669490	50.0	53.8	
63 n-Heptane	43	4.789	4.789	0.000	96	532654	50.0	49.2	
65 Trichloroethene	95	5.085	5.085	0.000	96	446151	50.0	50.3	
66 2-Pentanone	43	5.190	5.190	0.000	98	1255415	160.0	171.6	
67 Methylcyclohexane	55	5.273	5.273	0.000	96	592329	50.0	54.3	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	94	536042	50.0	52.9	
70 1,4-Dioxane	88	5.333	5.333	0.000	98	105511	1000.0	837.4	
71 Dibromomethane	93	5.359	5.359	0.000	91	276502	50.0	50.7	
72 Dichlorobromomethane	83	5.483	5.483	0.000	98	634895	50.0	53.3	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	307213	50.0	50.7	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	772035	50.0	51.1	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2216772	200.0	216.6	
77 Toluene	91	6.112	6.112	0.000	98	1886090	50.0	50.1	
78 trans-1,3-Dichloropropene	75	6.292	6.292	0.000	93	702200	50.0	52.8	
79 Ethyl methacrylate	69	6.315	6.315	0.000	93	589653	50.0	50.4	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	93	389081	50.0	52.3	
81 Tetrachloroethene	164	6.551	6.551	0.000	93	302051	50.0	50.0	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	96	764051	50.0	53.4	
83 2-Hexanone	43	6.630	6.630	0.000	98	1494990	200.0	215.7	
84 Chlorodibromomethane	129	6.798	6.798	0.000	91	433433	50.0	50.8	
86 Ethylene Dibromide	107	6.914	6.914	0.000	97	397932	50.0	51.2	
87 1-Chlorohexane	91	7.308	7.308	0.000	88	445559	40.0	38.6	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1179869	50.0	49.1	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.421	0.000	95	421297	50.0	51.9	
90 Ethylbenzene	106	7.424	7.424	0.000	99	643843	50.0	50.7	
91 m-Xylene & p-Xylene	106	7.541	7.541	0.000	0	780611	50.0	50.7	
92 o-Xylene	106	7.900	7.900	0.000	97	787166	50.0	52.8	
93 Styrene	104	7.915	7.915	0.000	95	1334141	50.0	54.0	
94 Bromoform	173	8.095	8.095	0.000	93	279804	50.0	50.7	
95 Isopropylbenzene	105	8.242	8.242	0.000	97	1932403	50.0	51.9	
97 Cyclohexanone	55	8.335	8.335	0.000	97	635742	1500.0	1253.1	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	93	554748	50.0	50.8	
99 Bromobenzene	156	8.556	8.556	0.000	97	469820	50.0	50.4	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.571	0.000	79	173594	50.0	52.5	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	86	160753	50.0	53.1	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	524629	50.0	51.0	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	471227	50.0	51.0	
104 1,3,5-Trimethylbenzene	105	8.811	8.811	0.000	94	1655747	50.0	53.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	490941	50.0	51.2	
106 tert-Butylbenzene	119	9.119	9.119	0.000	94	1320192	50.0	52.3	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1722971	50.0	50.5	
108 sec-Butylbenzene	134	9.336	9.336	0.000	95	373795	50.0	52.5	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	96	881534	50.0	49.9	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1665806	50.0	49.2	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	902159	50.0	48.4	
114 n-Butylbenzene	91	9.895	9.895	0.000	98	1550738	50.0	49.2	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	833904	50.0	50.4	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.701	0.000	75	84629	50.0	49.2	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	389695	50.0	47.4	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	97	170777	50.0	44.0	
120 Naphthalene	128	11.788	11.788	0.000	98	927719	50.0	40.7	
121 1,2,3-Trichlorobenzene	180	12.009	12.009	0.000	95	236274	50.0	40.6	
S 143 1,3-Dichloropropene, Total	1				0		100.0	103.9	
S 142 Trihalomethanes, Total	1				0		200.0	206.7	
S 141 Xylenes, Total	106				0		100.0	103.6	
S 140 1,2-Dichloroethene, Total	1				0		100.0	98.3	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6844b.D

Injection Date: 04-Aug-2023 15:54:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

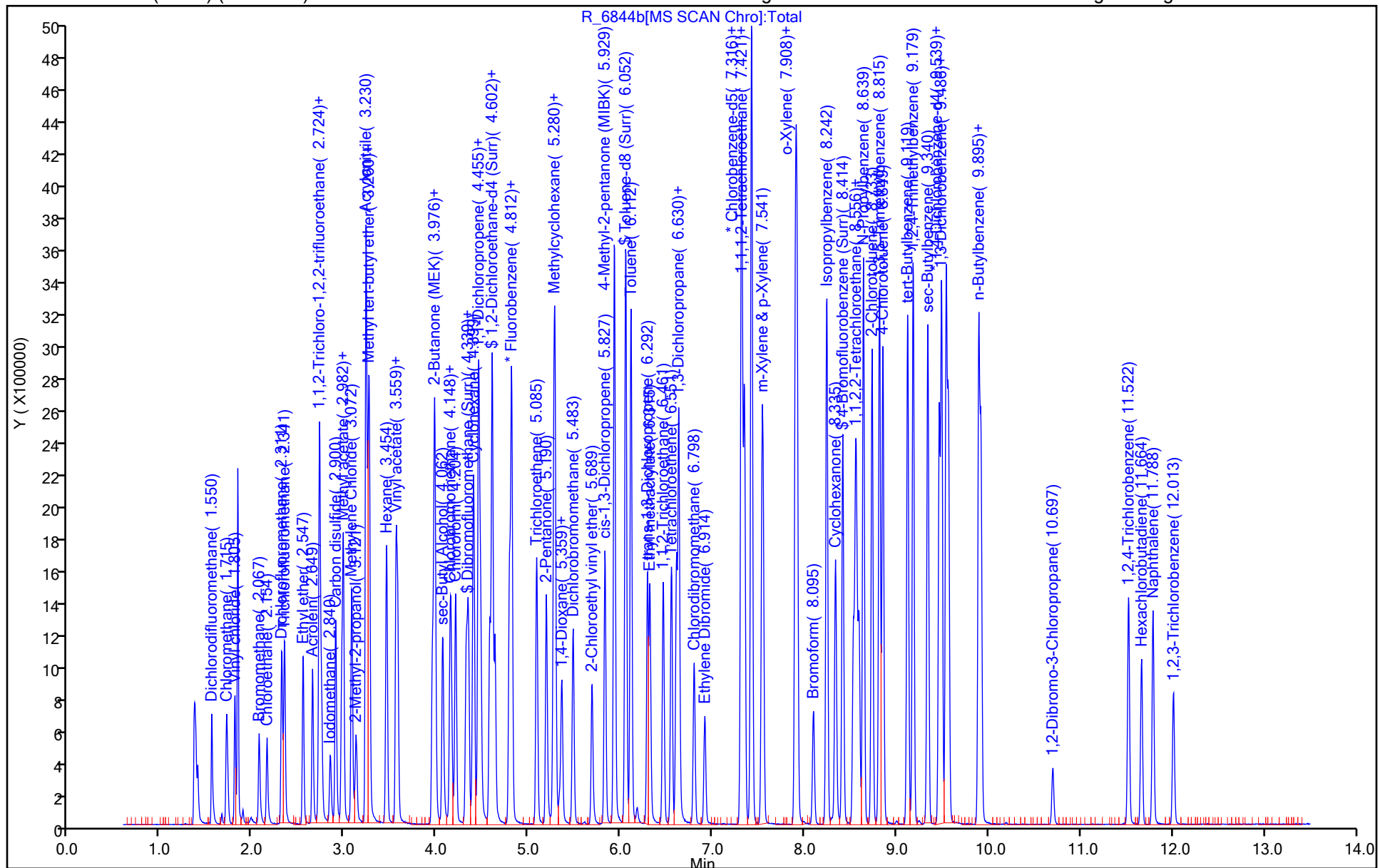
ALS Bottle#: 28

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Lab Sample ID: CCV 280-621894/3 Calibration Date: 08/04/2023 16:16
 Instrument ID: VMS_R1 Calib Start Date: 03/29/2022 17:08
 GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 03/29/2022 19:40
 Lab File ID: R_6845a.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethanol	Lin2		0.0039*	0.0100	2470	1500	64.4*	20.0
Isopropyl alcohol	Ave	0.0128	0.0141	0.0100	275	250	9.9	20.0
Acetonitrile	Ave	0.0298	0.0415	0.0100	348	250	39.3*	20.0
Isopropyl ether	Ave	0.1747	0.1699	0.0100	24.3	25.0	-2.8	20.0
Chloroprene	Ave	0.3282	0.3892	0.0100	29.6	25.0	18.6	20.0
Tert-butyl ethyl ether	Ave	0.6061	0.6674	0.0100	27.5	25.0	10.1	20.0
Ethyl acetate	Ave	0.1897	0.2610	0.0100	68.8	50.0	37.6*	20.0
Propionitrile	Ave	0.0358	0.0384	0.0100	268	250	7.3	20.0
Methacrylonitrile	Ave	0.1414	0.1880	0.0100	333	250	33.0*	20.0
Tert-amyl methyl ether	Ave	0.5540	0.5860	0.0100	26.4	25.0	5.8	20.0
n-Butanol	Lin1		0.0056*	0.0100	545	625	-12.9	20.0
Methyl methacrylate	Ave	0.0612	0.0527	0.0100	43.1	50.0	-13.8	20.0
2-Nitropropane	Ave	0.0544	0.0665	0.0100	61.1	50.0	22.2*	20.0
cis-1,4-Dichloro-2-butene	Lin1		0.2059	0.0100	51.3	50.0	2.6	20.0
1,2,3-Trimethylbenzene	Ave	2.297	2.229	0.0100	24.3	25.0	-3.0	20.0
1,3,5-Trichlorobenzene	Ave	0.8098	0.6527	0.0100	20.2	25.0	-19.4	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6845a.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 04-Aug-2023 16:16:30 ALS Bottle#: 29 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124185-034
 Operator ID: wickhamt Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 10:35:44 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

First Level Reviewer: J6NB

Date: 04-Aug-2023 17:16:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.811	0.000	98	1816186	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	451738	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.538	9.538	0.000	98	670143	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	91	487629	50.0	51.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	613324	50.0	53.8	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1902084	50.0	48.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	704627	50.0	54.3	
17 Ethanol	45	2.457	2.457	0.000	100	215037	1500.0	2465.8	
24 Isopropyl alcohol	45	2.836	2.836	0.000	97	127665	250.0	274.7	
27 Acetonitrile	41	2.945	2.945	0.000	100	376581	250.0	348.2	
38 Isopropyl ether	87	3.578	3.578	0.000	94	154251	25.0	24.3	
40 2-Chloro-1,3-butadiene	53	3.627	3.627	0.000	93	353446	25.0	29.6	
41 Tert-butyl ethyl ether	59	3.829	3.829	0.000	97	606039	25.0	27.5	
44 Ethyl acetate	43	3.968	3.968	0.000	99	474101	50.0	68.8	
47 Propionitrile	54	3.998	3.998	0.000	99	348836	250.0	268.1	
49 Methacrylonitrile	41	4.107	4.107	0.000	96	1707641	250.0	332.6	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	95	532113	25.0	26.4	
64 n-Butanol	56	4.969	4.969	0.000	93	127311	625.0	544.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	95703	50.0	43.1	
73 2-Nitropropane	41	5.647	5.647	0.000	97	120788	50.0	61.1	
96 cis-1,4-Dichloro-2-butene	53	8.294	8.294	0.000	0	137956	50.0	51.3	
113 1,2,3-Trimethylbenzene	105	9.583	9.583	0.000	99	746890	25.0	24.3	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	218717	25.0	20.2	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 10:35:44

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6845a.D

Injection Date: 04-Aug-2023 16:16:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

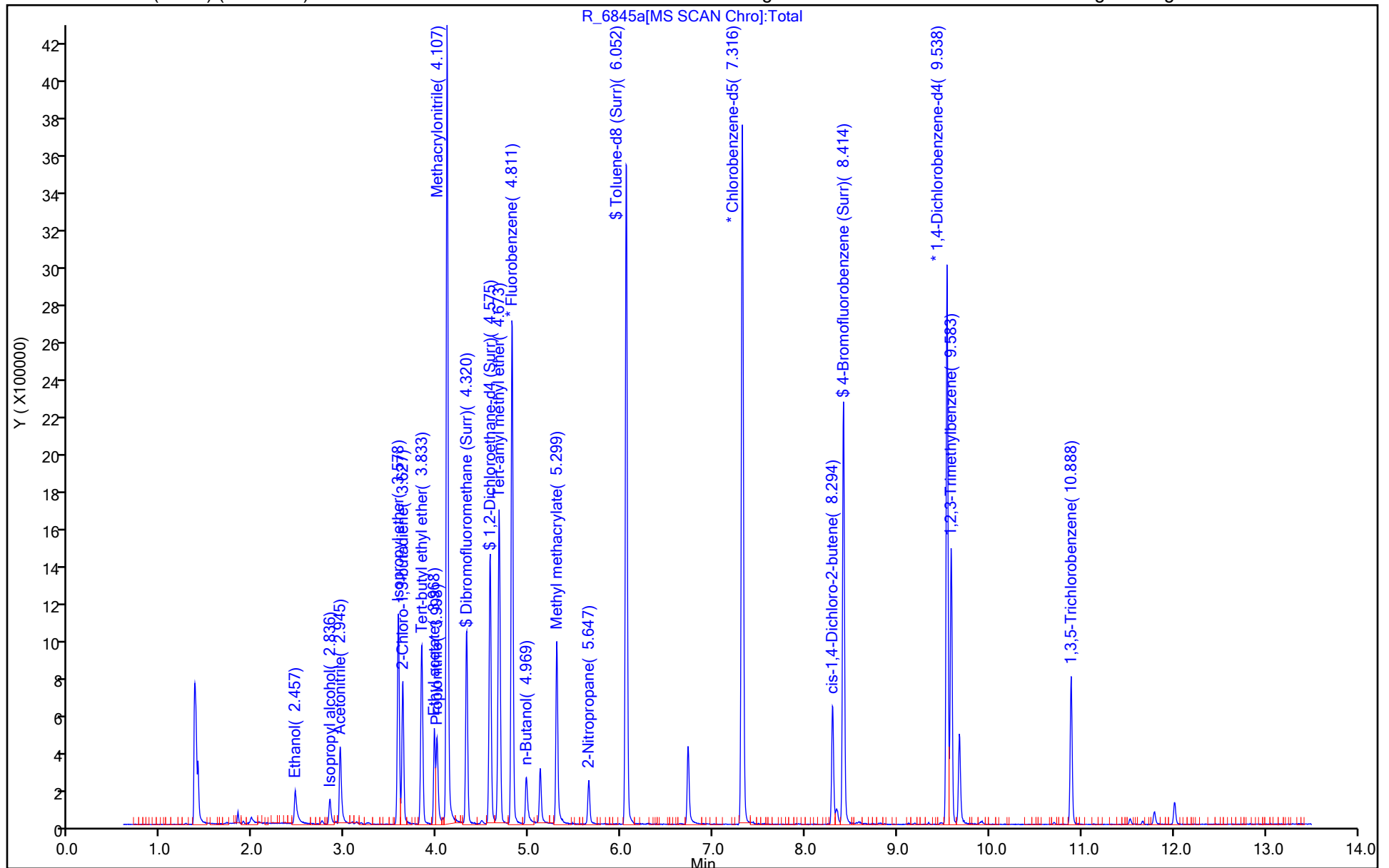
ALS Bottle#: 29

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Lab Sample ID: CCV 280-621894/3 Calibration Date: 08/04/2023 16:16
Instrument ID: VMS_R1 Calib Start Date: 07/30/2023 16:32
GC Column: DB-624 (60.25) ID: 0.25 (mm) Calib End Date: 07/30/2023 19:19
Lab File ID: R_6845a.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2627	0.2685	0.0100	51.1	50.0	2.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3141	0.3377	0.0100	53.8	50.0	7.5	20.0
Toluene-d8 (Surr)	Ave	4.307	4.211	0.0100	48.9	50.0	-2.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.9681	1.051	0.0100	54.3	50.0	8.6	20.0

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6845a.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 04-Aug-2023 16:16:30 ALS Bottle#: 29 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124185-034
 Operator ID: wickhamt Instrument ID: VMS_R1
 Sublist: chrom-AQ_VMSR1_8260*sub194
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 10:35:44 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

First Level Reviewer: J6NB

Date: 04-Aug-2023 17:16:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.811	0.000	98	1816186	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	451738	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.538	9.538	0.000	98	670143	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	91	487629	50.0	51.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	613324	50.0	53.8	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1902084	50.0	48.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	704627	50.0	54.3	
17 Ethanol	45	2.457	2.457	0.000	100	215037	1500.0	2465.8	
24 Isopropyl alcohol	45	2.836	2.836	0.000	97	127665	250.0	274.7	
27 Acetonitrile	41	2.945	2.945	0.000	100	376581	250.0	348.2	
38 Isopropyl ether	87	3.578	3.578	0.000	94	154251	25.0	24.3	
40 2-Chloro-1,3-butadiene	53	3.627	3.627	0.000	93	353446	25.0	29.6	
41 Tert-butyl ethyl ether	59	3.829	3.829	0.000	97	606039	25.0	27.5	
44 Ethyl acetate	43	3.968	3.968	0.000	99	474101	50.0	68.8	
47 Propionitrile	54	3.998	3.998	0.000	99	348836	250.0	268.1	
49 Methacrylonitrile	41	4.107	4.107	0.000	96	1707641	250.0	332.6	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	95	532113	25.0	26.4	
64 n-Butanol	56	4.969	4.969	0.000	93	127311	625.0	544.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	95703	50.0	43.1	
73 2-Nitropropane	41	5.647	5.647	0.000	97	120788	50.0	61.1	
96 cis-1,4-Dichloro-2-butene	53	8.294	8.294	0.000	0	137956	50.0	51.3	
113 1,2,3-Trimethylbenzene	105	9.583	9.583	0.000	99	746890	25.0	24.3	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	218717	25.0	20.2	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

MV-Supp A_00083	Amount Added: 25.00	Units: uL	
mv-IS_SS_00066	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 05-Aug-2023 10:35:44

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6845a.D

Injection Date: 04-Aug-2023 16:16:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

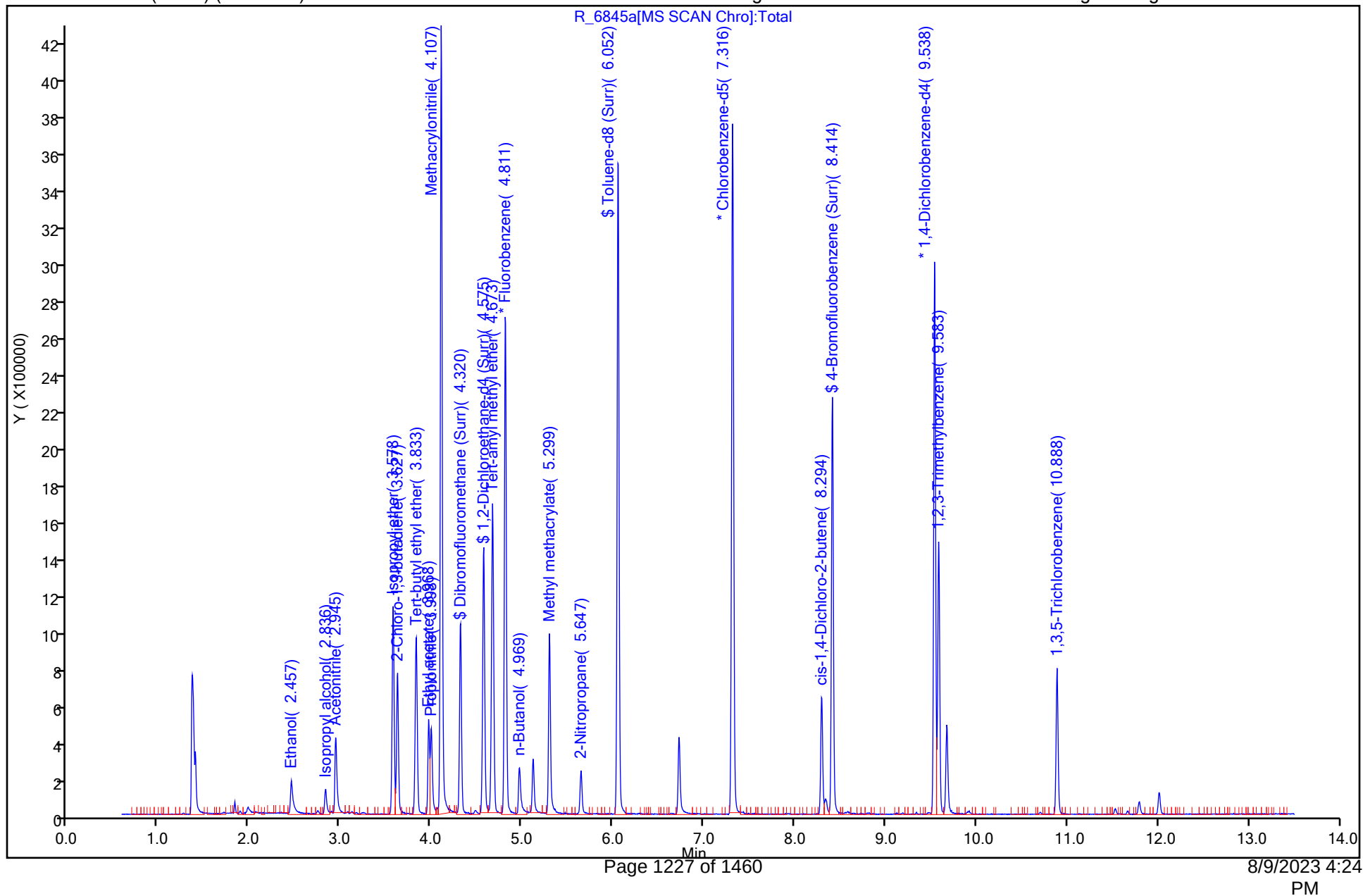
ALS Bottle#: 29

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4145.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 28-Dec-2022 07:14:30 ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 5.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Operator ID: SUNLEEC Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Dec-2022 11:01:03 Calib Date: 28-Dec-2022 14:33:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4157.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1609

First Level Reviewer: LW7N

Date: 28-Dec-2022 07:47:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 10 BFB	95	3.733	3.733	0.000	0	591602	NR	NR	a
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

Reagents:

mv-Cent BFB_00004

Amount Added: 5.00

Units: uL

Eurofins Denver

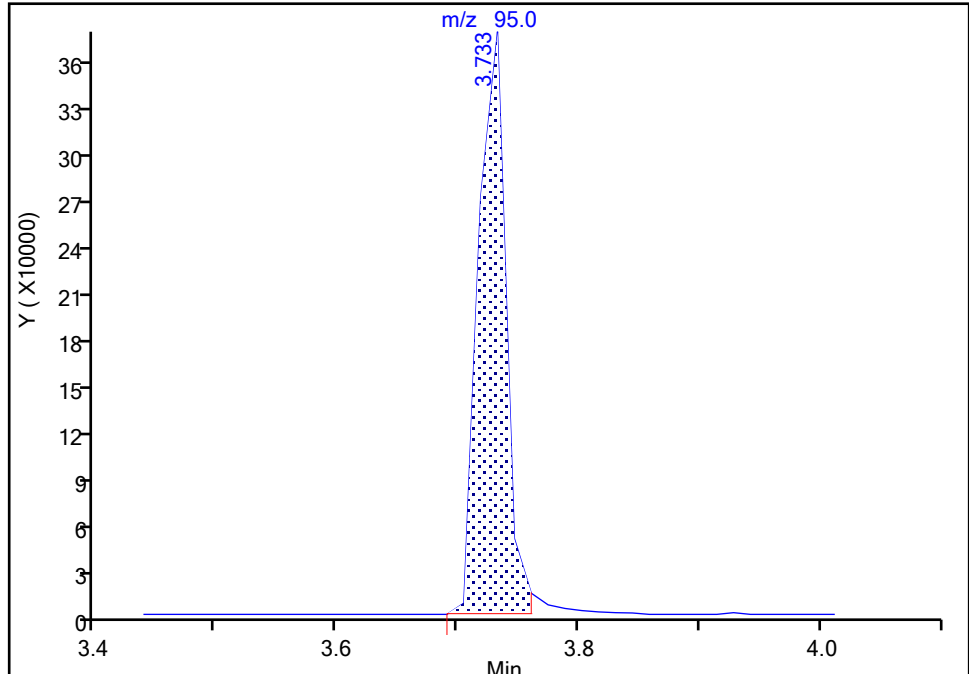
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4145.D
Injection Date: 28-Dec-2022 07:14:30 Instrument ID: VMS_MS1
Lims ID: BFB
Client ID:
Operator ID: SUNLEEC ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

\$ 10 BFB, CAS: 460-00-4

Signal: 1

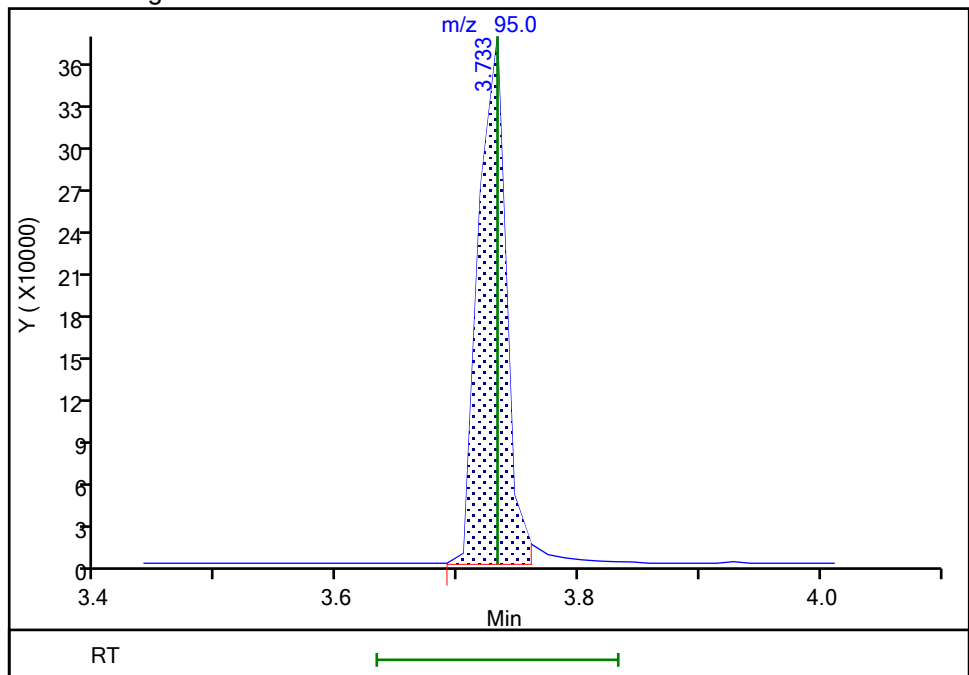
RT: 3.73
Area: 591602
Amount: 0
Amount Units: ug/l

Processing Integration Results



RT: 3.73
Area: 591602
Amount: 0
Amount Units: ug/l

Manual Integration Results



Reviewer: LW7N, 28-Dec-2022 07:47:45

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4145.D

Injection Date: 28-Dec-2022 07:14:30

Instrument ID: VMS_MS1

Lims ID: BFB

Client ID:

Operator ID: SUNLEEC

ALS Bottle#: 100

Worklist Smp#: 1

Injection Vol: 5.0 mL

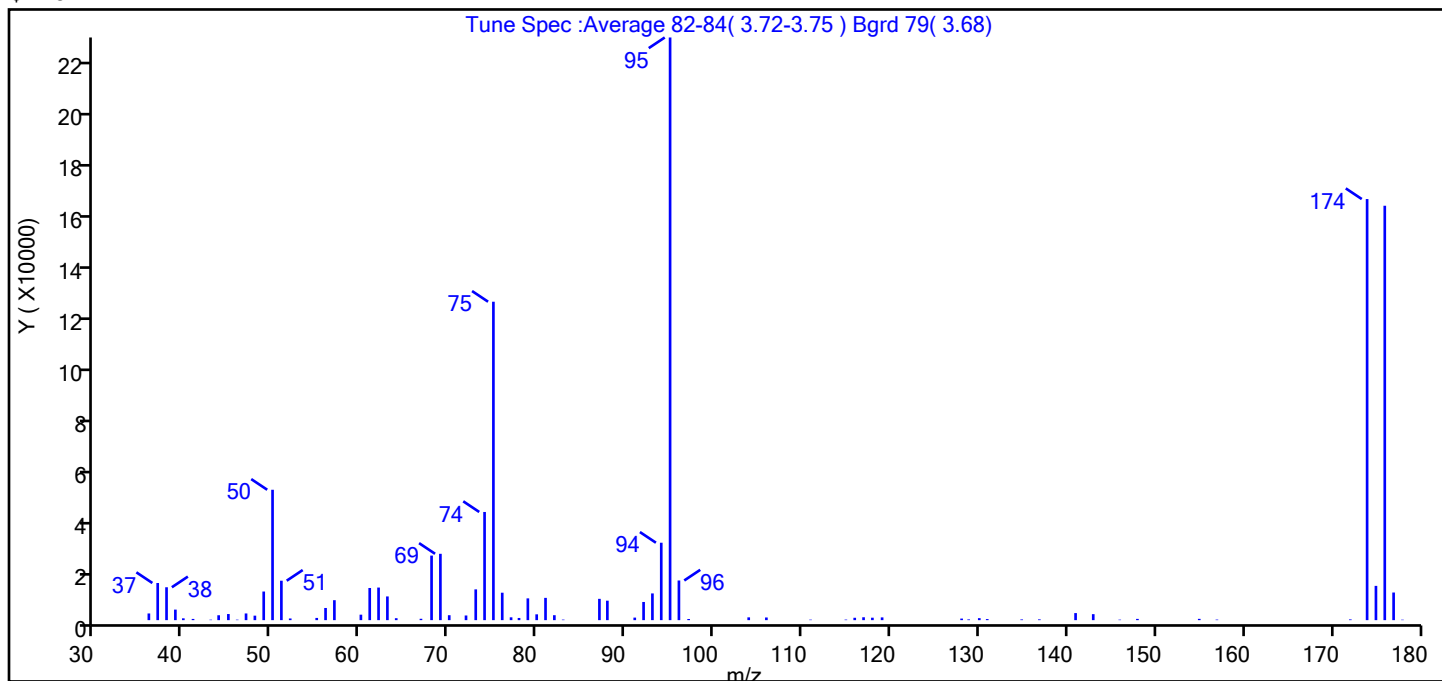
Dil. Factor: 1.0000

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 10 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.4
75	30 to 60% of m/z 95	54.6
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	72.3
175	5 to 9% of m/z 174	5.9 (8.1)
176	Greater than 95% but less than 101% of m/z 174	71.1 (98.4)
177	5 to 9% of m/z 176	4.7 (6.7)

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\MS1_4145.D\AQ_VMS1_8260.rslt\spectra.o
 Injection Date: 28-Dec-2022 07:14:30
 Spectrum: Tune Spec :Average 82-84(3.72-3.75) Bgrd 79(3.68)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2620	60.00	2145	82.00	1939	128.00	615
37.00	14563	61.00	12609	83.00	209	129.00	292
38.00	12897	62.00	12778	87.00	8354	130.00	778
39.00	4133	63.00	9297	88.00	7630	131.00	419
40.00	711	64.00	761	91.00	996	135.00	278
41.00	479	67.00	537	92.00	7123	137.00	306
43.00	177	68.00	25312	93.00	10478	141.00	2768
44.00	1917	69.00	26016	94.00	30360	143.00	2348
45.00	2397	70.00	1934	95.00	228480	146.00	191
46.00	191	72.00	1826	96.00	15549	148.00	490
47.00	2624	73.00	12068	97.00	450	155.00	504
48.00	1759	74.00	42416	104.00	1093	157.00	218
49.00	11222	75.00	124864	106.00	1044	172.00	287
50.00	51128	76.00	10759	111.00	196	174.00	165120
51.00	15466	77.00	1104	115.00	217	175.00	13436
52.00	655	78.00	855	116.00	931	176.00	162496
55.00	869	79.00	8539	117.00	1131	177.00	10831
56.00	4771	80.00	2280	118.00	960	178.00	174
57.00	7824	81.00	8734	119.00	1079		

Report Date: 29-Dec-2022 11:01:03

Chrom Revision: 2.3 20-Dec-2022 14:14:06

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20221228-117355.b\VMS1_4145.D

Injection Date: 28-Dec-2022 07:14:30

Instrument ID: VMS_MS1

Operator ID: SUNLEEC

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 5.0 mL

Dil. Factor: 1.0000

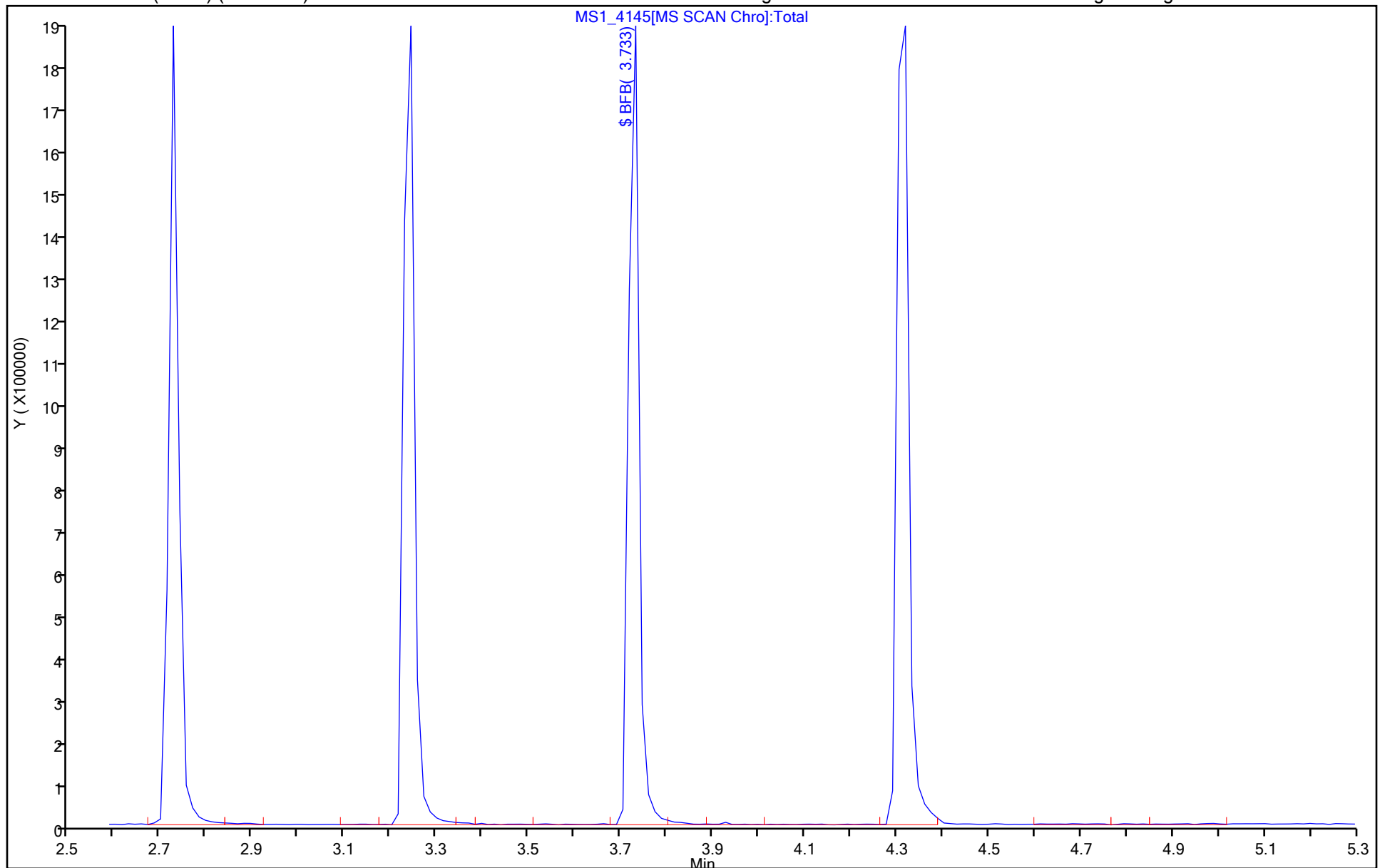
ALS Bottle#: 100

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2672.D
 Lims ID: BFB RADL
 Client ID:
 Sample Type: BFB
 Inject. Date: 01-Aug-2023 08:14:30 ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: bfb
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 01-Aug-2023 14:27:45 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1619

First Level Reviewer: AF7X

Date: 01-Aug-2023 08:31:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	3.733	3.733	0.000	0	682548	NR	NR	a
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

a - User Assigned ID

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

Eurofins Denver

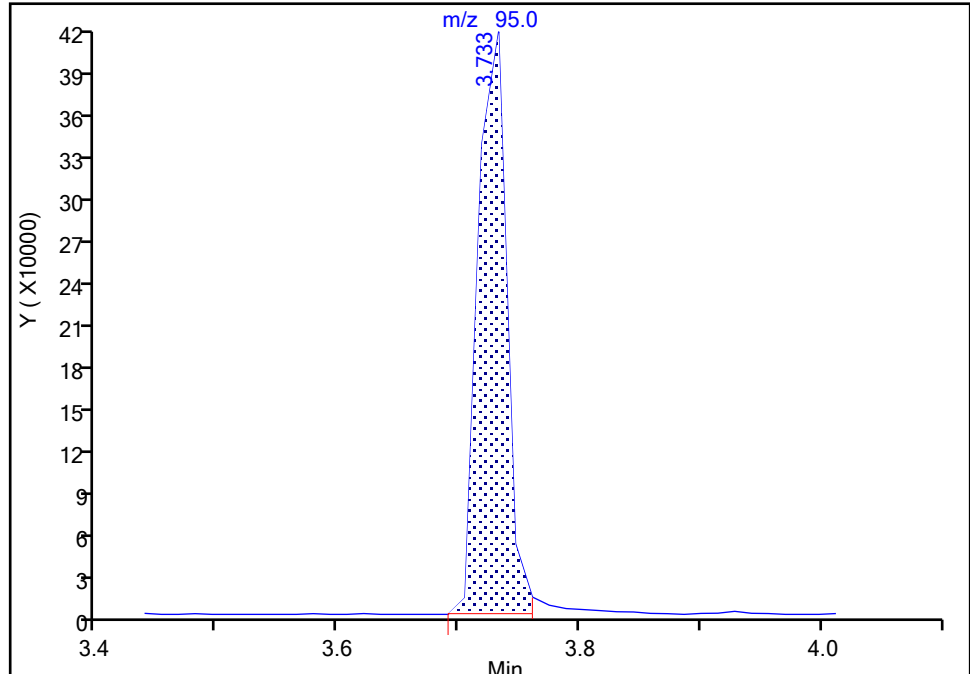
Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2672.D
Injection Date: 01-Aug-2023 08:14:30 Instrument ID: VMS_MS1
Lims ID: BFB RADL
Client ID:
Operator ID: wickhamt ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMS1_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (60.25) (0.25 mm) Detector: MS SCAN

\$ 8 BFB, CAS: 460-00-4

Signal: 1

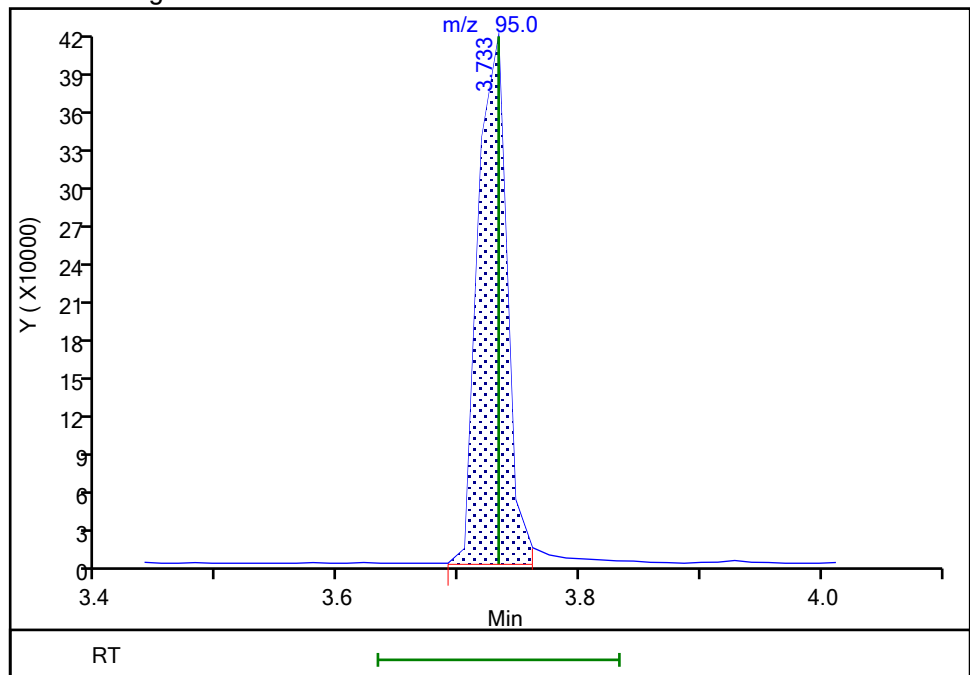
RT: 3.73
Area: 682548
Amount: 0
Amount Units: ug/l

Processing Integration Results



RT: 3.73
Area: 682548
Amount: 0
Amount Units: ug/l

Manual Integration Results



Reviewer: AF7X, 01-Aug-2023 08:31:16 -06:00:00 (UTC)

Audit Action: Assigned Compound ID

Audit Reason: Assign Peak

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2672.D

Injection Date: 01-Aug-2023 08:14:30

Instrument ID: VMS_MS1

Lims ID: BFB RADL

Client ID:

Operator ID: wickhamt

ALS Bottle#: 100

Worklist Smp#: 1

Injection Vol: 2.0 uL

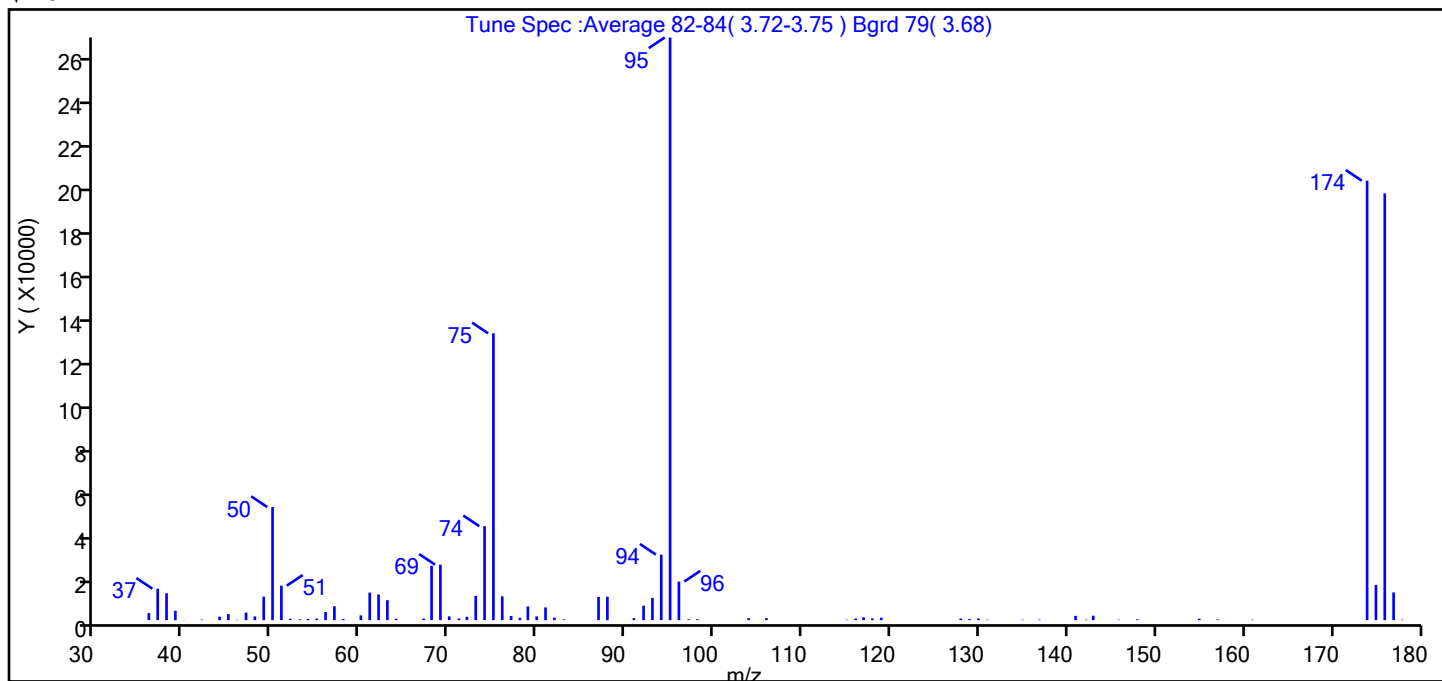
Dil. Factor: 1.0000

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.4
75	30 to 60% of m/z 95	49.2
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	75.4
175	5 to 9% of m/z 174	6.0 (8.0)
176	Greater than 95% but less than 101% of m/z 174	73.2 (97.1)
177	5 to 9% of m/z 176	4.8 (6.5)

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2672.D\AQ_VMS1_8260.rsl\spectra.o
Injection Date: 01-Aug-2023 08:14:30
Spectrum: Tune Spec :Average 82-84(3.72-3.75) Bgrd 79(3.68)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3198	57.00	6281	80.00	1698	119.00	1113
37.00	14211	58.00	520	81.00	5744	128.00	747
38.00	12178	60.00	2151	82.00	1154	129.00	506
39.00	4258	61.00	12452	83.00	327	130.00	759
40.00	99	62.00	11598	87.00	10503	131.00	214
41.00	12	63.00	9021	88.00	10613	135.00	193
42.00	241	64.00	627	91.00	908	137.00	261
44.00	1557	67.00	703	92.00	6524	141.00	1908
45.00	2727	68.00	24584	93.00	10087	142.00	195
46.00	168	69.00	25088	94.00	29632	143.00	2016
47.00	3410	70.00	1706	95.00	263552	146.00	204
48.00	1668	71.00	754	96.00	17448	148.00	353
49.00	10663	72.00	1501	97.00	342	155.00	647
50.00	51160	73.00	10975	98.00	400	157.00	316
51.00	15590	74.00	42496	104.00	894	161.00	201
52.00	653	75.00	129752	106.00	926	174.00	198784
53.00	366	76.00	10780	115.00	218	175.00	15931
54.00	559	77.00	1898	116.00	725	176.00	193024
55.00	696	78.00	1056	117.00	1286	177.00	12533
56.00	3675	79.00	6185	118.00	759	178.00	207

Report Date: 01-Aug-2023 14:27:45

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2672.D

Injection Date: 01-Aug-2023 08:14:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: BFB RADL

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

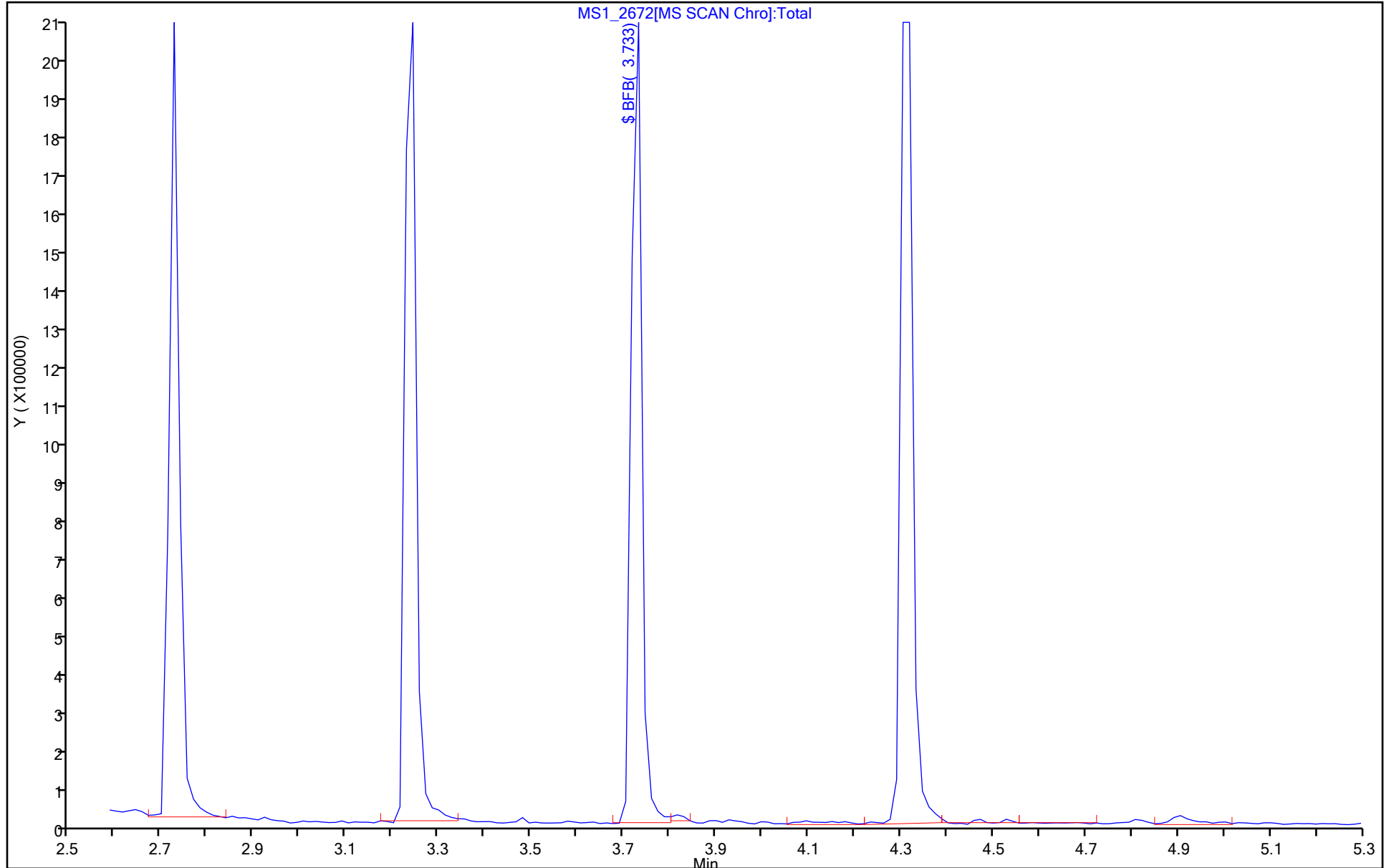
ALS Bottle#: 100

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2875a.D
 Lims ID: BFB RADL
 Client ID:
 Sample Type: BFB
 Inject. Date: 04-Aug-2023 17:58:30 ALS Bottle#: 29 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124186-034
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 00:10:31 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1601

First Level Reviewer: V8PV

Date: 05-Aug-2023 00:05:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	9.900	9.900	0.000	79	563041	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.bVMS1_2875a.D

Injection Date: 04-Aug-2023 17:58:30

Instrument ID: VMS_MS1

Lims ID: BFB RADL

Client ID:

Operator ID: wickhamt

ALS Bottle#:

29

Worklist Smp#:

1

Injection Vol: 2.0 uL

Dil. Factor:

1.0000

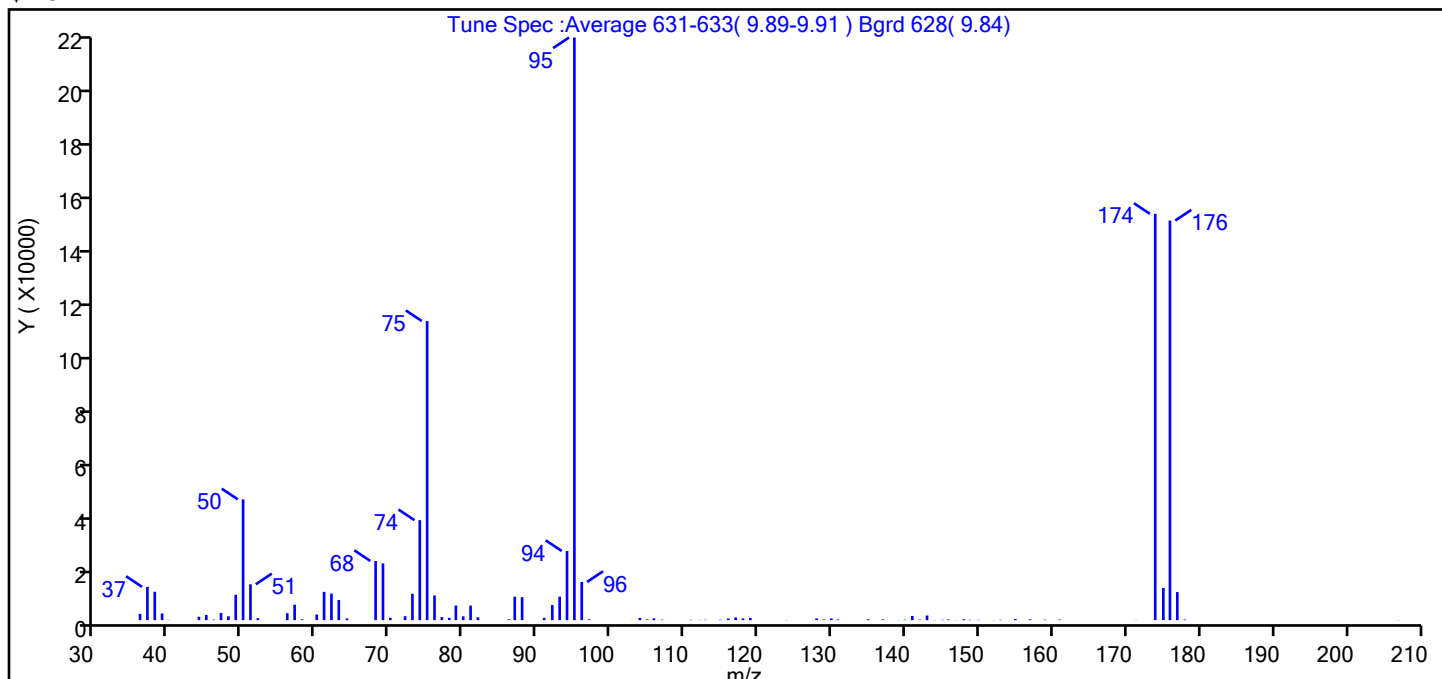
Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.7
75	30 to 60% of m/z 95	51.3
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	69.7
175	5 to 9% of m/z 174	5.5 (7.9)
176	Greater than 95% but less than 101% of m/z 174	68.6 (98.4)
177	5 to 9% of m/z 176	4.8 (7.0)

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2875a.D\AQ_VMS1_8260.rslt\spectra
Injection Date: 04-Aug-2023 17:58:30
Spectrum: Tune Spec :Average 631-633(9.89-9.91) Bgrd 628(9.84)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2289	69.00	20720	103.00	51	142.00	198
37.00	12127	70.00	853	104.00	812	143.00	1696
38.00	10354	72.00	1430	105.00	288	144.00	66
39.00	2442	73.00	9623	106.00	664	145.00	140
40.00	87	74.00	36464	107.00	185	146.00	261
44.00	1225	75.00	109064	111.00	132	147.00	55
45.00	1917	76.00	8998	112.00	70	148.00	339
46.00	186	77.00	1102	113.00	152	149.00	130
47.00	2619	78.00	839	115.00	169	150.00	125
48.00	1412	79.00	5311	116.00	602	152.00	53
49.00	9245	80.00	1392	117.00	997	153.00	147
50.00	44056	81.00	5314	118.00	631	155.00	413
51.00	13078	82.00	1054	119.00	810	157.00	292
52.00	710	86.00	312	124.00	58	159.00	182
56.00	2536	87.00	8557	128.00	626	161.00	208
57.00	5631	88.00	8381	129.00	263	171.00	64
58.00	320	91.00	857	130.00	633	174.00	148160
60.00	2055	92.00	5507	131.00	261	175.00	11762
61.00	10312	93.00	8568	135.00	326	176.00	145728
62.00	9674	94.00	25224	137.00	280	177.00	10237
63.00	7330	95.00	212480	139.00	54	178.00	237
64.00	633	96.00	13939	140.00	158	207.00	59
68.00	21584	97.00	293	141.00	1491		

Report Date: 05-Aug-2023 00:10:31

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\VMS1_2875a.D

Injection Date: 04-Aug-2023 17:58:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: BFB RADL

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

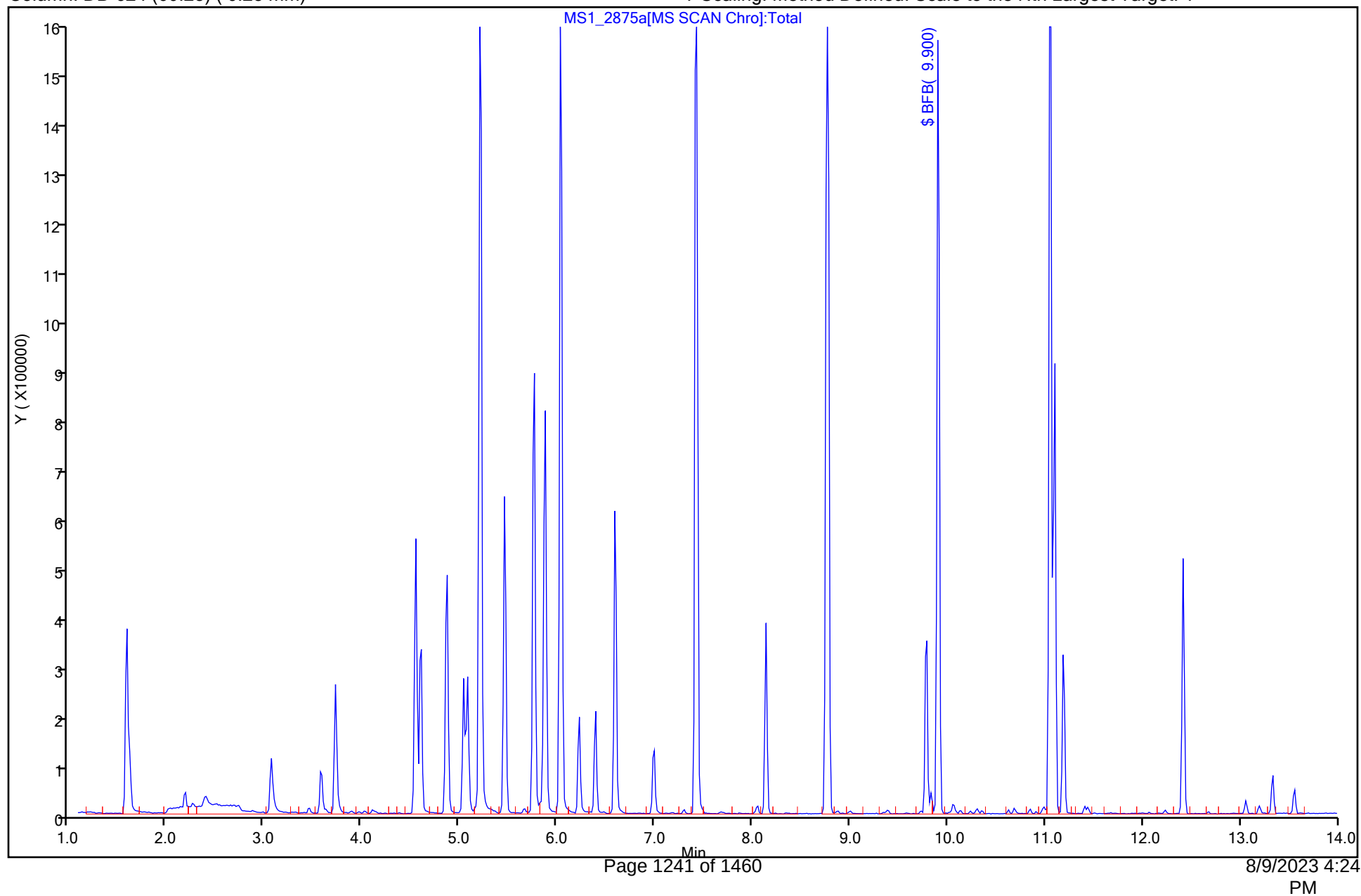
ALS Bottle#: 29

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7984.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 19-Jun-2023 07:01:30 ALS Bottle#: 35 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 12-Jul-2023 13:33:11 Calib Date: 19-Jun-2023 14:22:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_8003.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1671

First Level Reviewer: Q2ZS

Date: 12-Jul-2023 13:29:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	3.922	3.922	0.000	87	782635	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7984.D

Injection Date: 19-Jun-2023 07:01:30

Instrument ID: VMS_MS11

Lims ID: BFB

Client ID:

Operator ID: MED

ALS Bottle#: 35 Worklist Smp#: 1

Injection Vol: 2.0 uL

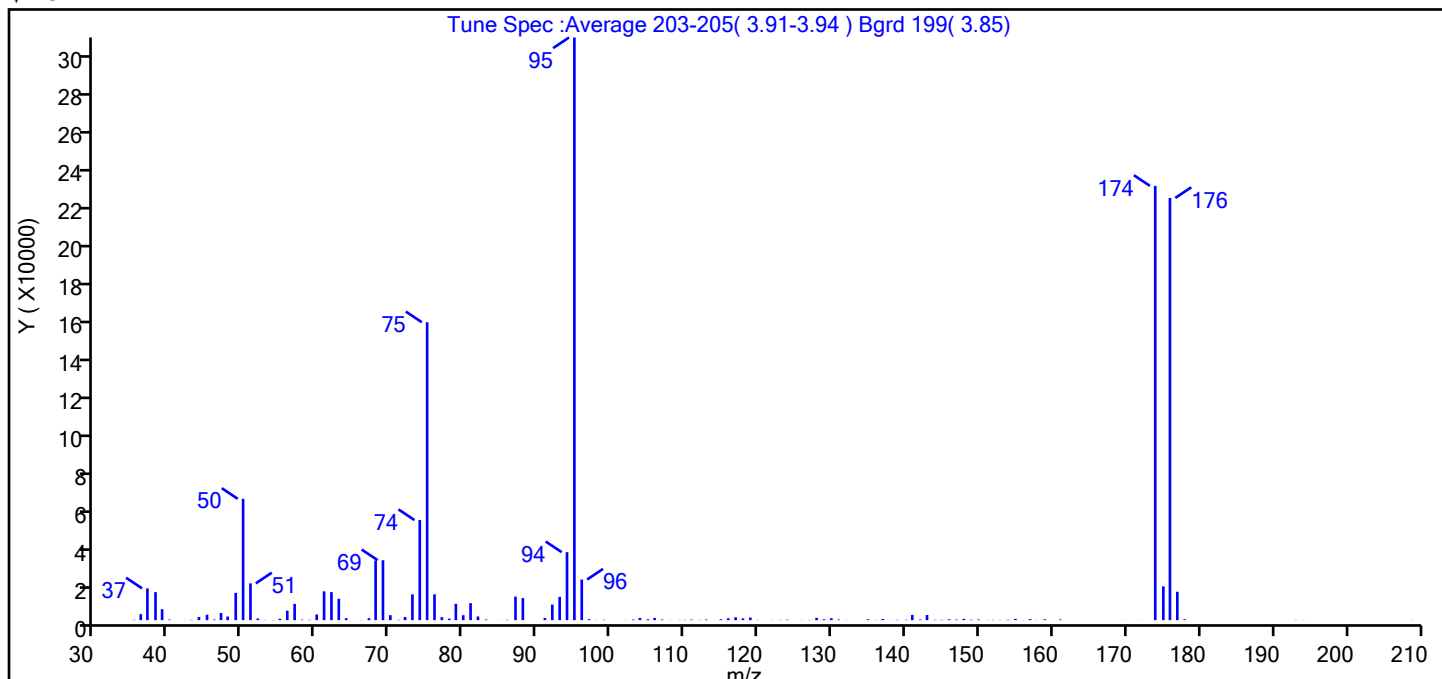
Dil. Factor: 1.0000

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.8
75	30 to 60% of m/z 95	51.1
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	74.5
175	5 to 9% of m/z 174	5.8 (7.8)
176	Greater than 95% but less than 101% of m/z 174	72.5 (97.2)
177	5 to 9% of m/z 176	4.9 (6.7)

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7984.D\AQ_VMS11_8260.rsltspect
Injection Date: 19-Jun-2023 07:01:30
Spectrum: Tune Spec :Average 203-205(3.91-3.94) Bgrd 199(3.85)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 124

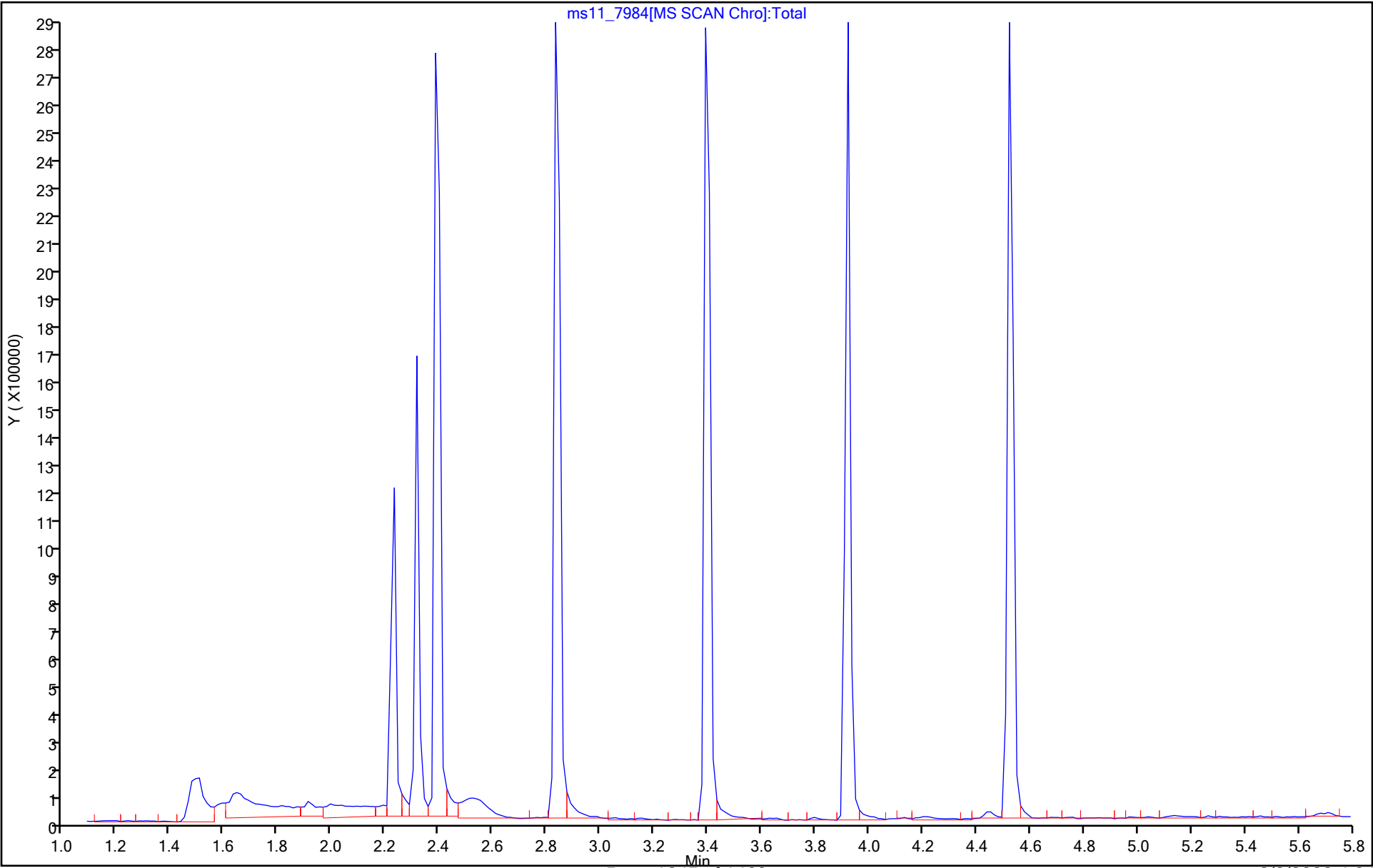
m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	158	68.00	31008	104.00	1168	140.00	209
36.00	3118	69.00	31152	105.00	475	141.00	2720
37.00	16496	70.00	2581	106.00	1155	142.00	334
38.00	14565	71.00	198	107.00	328	143.00	2678
39.00	5693	72.00	1627	108.00	57	144.00	189
40.00	292	73.00	13422	109.00	83	145.00	203
42.00	36	74.00	52016	110.00	151	146.00	413
43.00	176	75.00	154816	111.00	281	147.00	313
44.00	1627	76.00	13411	112.00	139	148.00	653
45.00	2801	77.00	1547	113.00	330	149.00	231
46.00	316	78.00	779	115.00	476	150.00	359
47.00	3717	79.00	8486	116.00	952	151.00	83
48.00	1896	80.00	2569	117.00	1505	152.00	129
49.00	14167	81.00	8849	118.00	905	153.00	138
50.00	63032	82.00	1903	119.00	1329	154.00	235
51.00	19120	83.00	352	120.00	107	155.00	676
52.00	828	85.00	56	122.00	73	156.00	70
53.00	113	86.00	183	123.00	137	157.00	522
54.00	84	87.00	12225	124.00	261	158.00	54
55.00	711	88.00	11469	126.00	67	159.00	413
56.00	4923	91.00	1128	127.00	107	161.00	359
57.00	8445	92.00	8092	128.00	1176	170.00	56
58.00	269	93.00	12058	129.00	457	172.00	57
59.00	202	94.00	35328	130.00	977	174.00	225664
60.00	2940	95.00	302784	131.00	319	175.00	17560
61.00	14972	96.00	21096	132.00	59	176.00	219392
62.00	14575	97.00	514	135.00	409	177.00	14746
63.00	11065	98.00	70	136.00	82	178.00	447
64.00	1022	99.00	221	137.00	610	193.00	108
66.00	91	102.00	52	138.00	53	194.00	61
67.00	1015	103.00	330	139.00	149	209.00	62

Eurofins Denver
Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230619-122675.b\ms11_7984.D
Injection Date: 19-Jun-2023 07:01:30 Instrument ID: VMS_MS11
Lims ID: BFB
Client ID:
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm)

Operator ID: MED
Worklist Smp#: 1

ALS Bottle#: 35

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000431A.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Aug-2023 07:18:30 ALS Bottle#: 3 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Sample Info: CCV S
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 01-Aug-2023 11:42:21 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1652

First Level Reviewer: BX8N

Date: 01-Aug-2023 11:37:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	8.643	8.643	0.000	86	789768	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

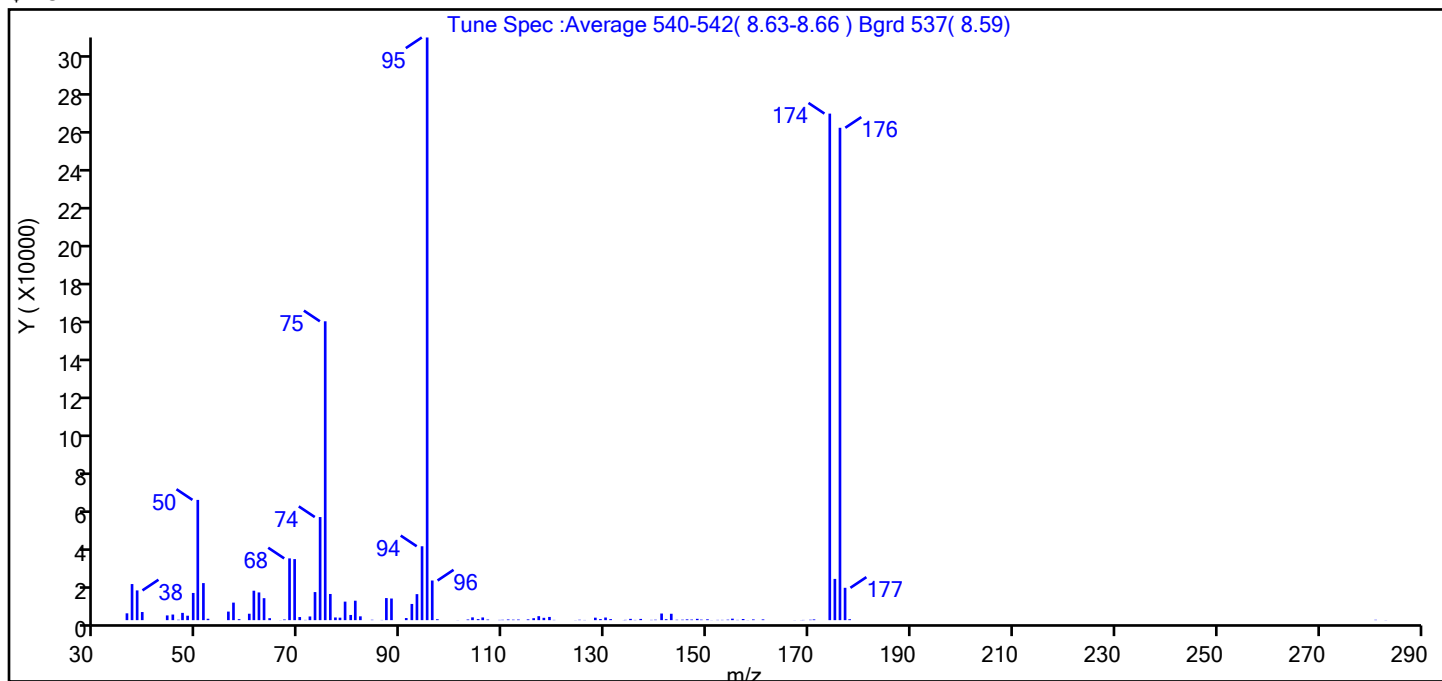
Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000431A.D
Injection Date: 01-Aug-2023 07:18:30 Instrument ID: VMS_MS11
Lims ID: BFB
Client ID:
Operator ID: MED ALS Bottle#: 3 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.6
75	30 to 60% of m/z 95	51.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.9
175	5 to 9% of m/z 174	7.1 (8.1)
176	Greater than 95% but less than 101% of m/z 174	84.5 (97.2)
177	5 to 9% of m/z 176	5.5 (6.6)

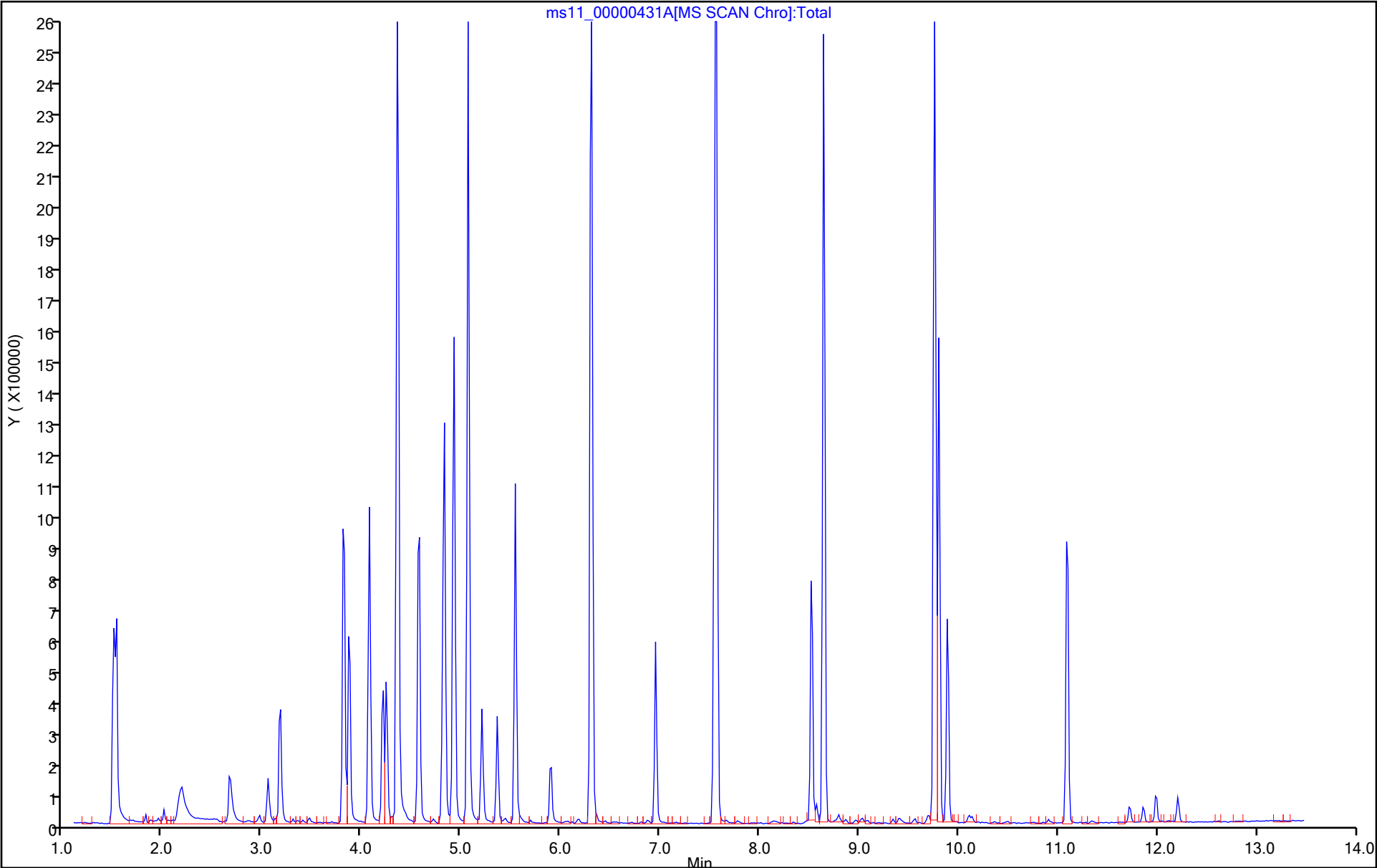
Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000431A.D\AQ_VMS11_8260.rsl
Injection Date: 01-Aug-2023 07:18:30
Spectrum: Tune Spec :Average 540-542(8.63-8.66) Bgrd 537(8.59)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3544	73.00	14585	110.00	187	145.00	238
37.00	18752	74.00	53560	111.00	363	146.00	411
38.00	15458	75.00	155264	112.00	253	147.00	309
39.00	4219	76.00	13596	113.00	322	148.00	676
44.00	2460	77.00	1394	115.00	410	149.00	269
45.00	2914	78.00	1289	116.00	1006	150.00	433
46.00	210	79.00	9621	117.00	2062	151.00	53
47.00	3773	80.00	2695	118.00	1213	152.00	142
48.00	2306	81.00	10102	119.00	1668	153.00	142
49.00	14123	82.00	1982	120.00	129	154.00	251
50.00	62472	84.00	196	124.00	58	155.00	768
51.00	19248	86.00	99	125.00	208	156.00	130
52.00	722	87.00	11466	126.00	98	157.00	583
56.00	4444	88.00	11236	128.00	1281	158.00	54
57.00	9106	91.00	1088	129.00	558	159.00	372
58.00	531	92.00	8413	130.00	1364	161.00	385
60.00	3337	93.00	13512	131.00	536	167.00	53
61.00	15294	94.00	38384	134.00	52	168.00	58
62.00	14398	95.00	302720	134.00	147	169.00	113
63.00	11417	96.00	20592	135.00	668	170.00	209
64.00	1024	97.00	465	136.00	117	171.00	385
66.00	47	101.00	54	137.00	640	174.00	263168
67.00	339	103.00	345	139.00	136	175.00	21424
68.00	32080	104.00	1440	140.00	225	176.00	255808
69.00	31712	105.00	540	141.00	3443	177.00	16800
70.00	1610	106.00	1402	142.00	483	178.00	479
71.00	127	107.00	327	143.00	3314	281.00	181
72.00	1914	109.00	131	144.00	210	283.00	61

Eurofins Denver
Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000431A.D
Injection Date: 01-Aug-2023 07:18:30 Instrument ID: VMS_MS11
Lims ID: BFB
Client ID:
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

Operator ID: MED
Worklist Smp#: 1

ALS Bottle#: 3



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549A.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 03-Aug-2023 06:24:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: CCVC
 Misc. Info.: 280-0124138-029
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 10:29:43 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1632

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 8 BFB	95	8.643	8.643	0.000	84	686382	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

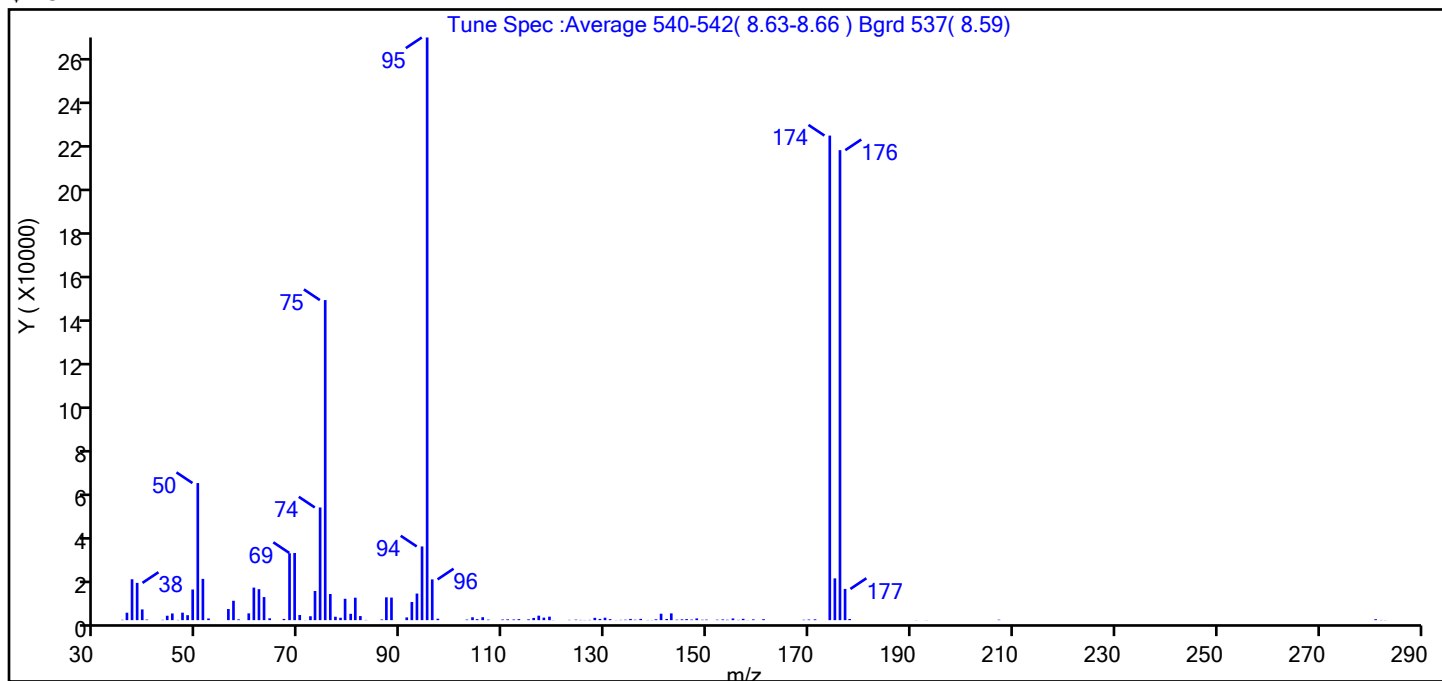
Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549A.D
Injection Date: 03-Aug-2023 06:24:30 Instrument ID: VMS_MS11
Lims ID: BFB
Client ID:
Operator ID: MED ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 uL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.5
75	30 to 60% of m/z 95	54.9
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	83.2
175	5 to 9% of m/z 174	7.2 (8.6)
176	Greater than 95% but less than 101% of m/z 174	80.7 (97.0)
177	5 to 9% of m/z 176	5.4 (6.6)

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549A.D\AQ_VMS11_8260.rsl
Injection Date: 03-Aug-2023 06:24:30
Spectrum: Tune Spec :Average 540-542(8.63-8.66) Bgrd 537(8.59)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 118

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	159	72.00	1762	113.00	453	146.00	465
36.00	3362	73.00	13189	115.00	364	147.00	258
37.00	18480	74.00	50944	116.00	998	148.00	780
38.00	16848	75.00	144704	117.00	2025	149.00	179
39.00	4851	76.00	11831	118.00	1137	150.00	249
40.00	270	77.00	1544	119.00	1585	152.00	215
43.00	140	78.00	1073	120.00	63	153.00	317
44.00	1999	79.00	9658	123.00	126	154.00	183
45.00	3019	80.00	2855	124.00	224	155.00	762
46.00	107	81.00	10151	125.00	110	156.00	123
47.00	3377	82.00	1846	126.00	76	157.00	603
48.00	2236	83.00	104	127.00	121	158.00	58
49.00	13856	86.00	307	128.00	1036	159.00	347
50.00	61976	87.00	10314	129.00	553	161.00	425
51.00	18656	88.00	10196	130.00	1102	169.00	177
52.00	759	91.00	1237	131.00	454	170.00	282
56.00	5026	92.00	8214	132.00	53	171.00	373
57.00	8764	93.00	12029	133.00	127	174.00	219072
58.00	361	94.00	33320	134.00	203	175.00	18888
59.00	3	95.00	263424	135.00	553	176.00	212480
60.00	3061	96.00	18424	136.00	187	177.00	14108
61.00	14709	97.00	638	137.00	573	178.00	510
62.00	13990	103.00	260	138.00	85	191.00	53
63.00	10438	104.00	1294	139.00	75	193.00	51
64.00	832	105.00	452	140.00	382	207.00	214
67.00	546	106.00	1330	141.00	2910	281.00	420
68.00	30240	107.00	238	142.00	524	282.00	89
69.00	30368	110.00	276	143.00	3057	283.00	58
70.00	2320	111.00	364	144.00	220		
71.00	48	112.00	307	145.00	359		

Report Date: 03-Aug-2023 10:29:44

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549A.D

Injection Date: 03-Aug-2023 06:24:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

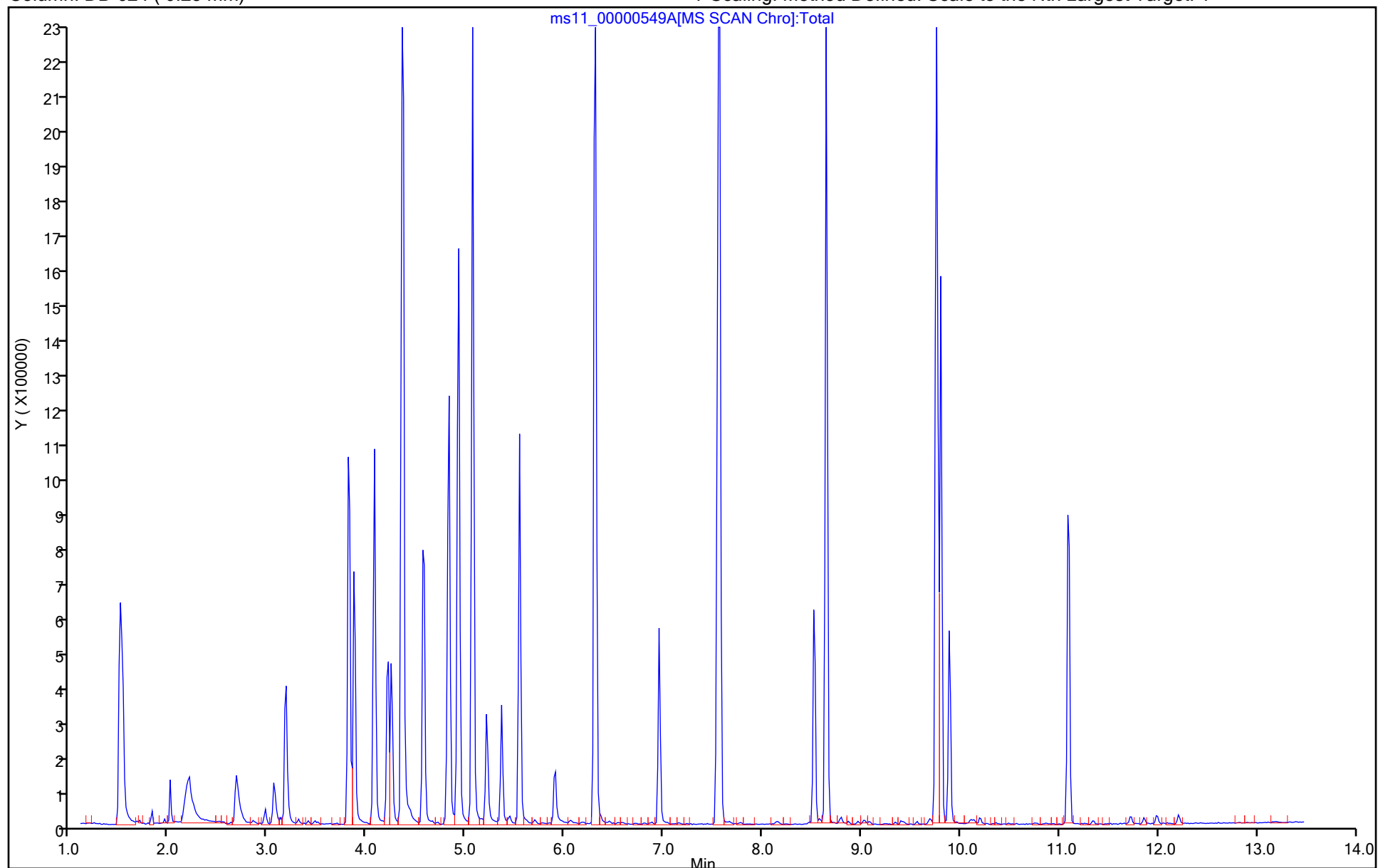
ALS Bottle#: 1

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3107.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 29-Mar-2022 15:57:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 280-0109642-001
 Operator ID: peppinga Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 29-Mar-2022 21:11:04 Calib Date: 29-Mar-2022 19:40:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3115.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: peppinga

Date: 29-Mar-2022 16:53:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 9 BFB	95	8.500	8.500	0.000	89	723698	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00004

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3107.D

Injection Date: 29-Mar-2022 15:57:30

Instrument ID: VMS_R1

Lims ID: BFB

Client ID:

Operator ID: peppinga

ALS Bottle#: 1

Worklist Smp#: 1

Injection Vol: 2.0 uL

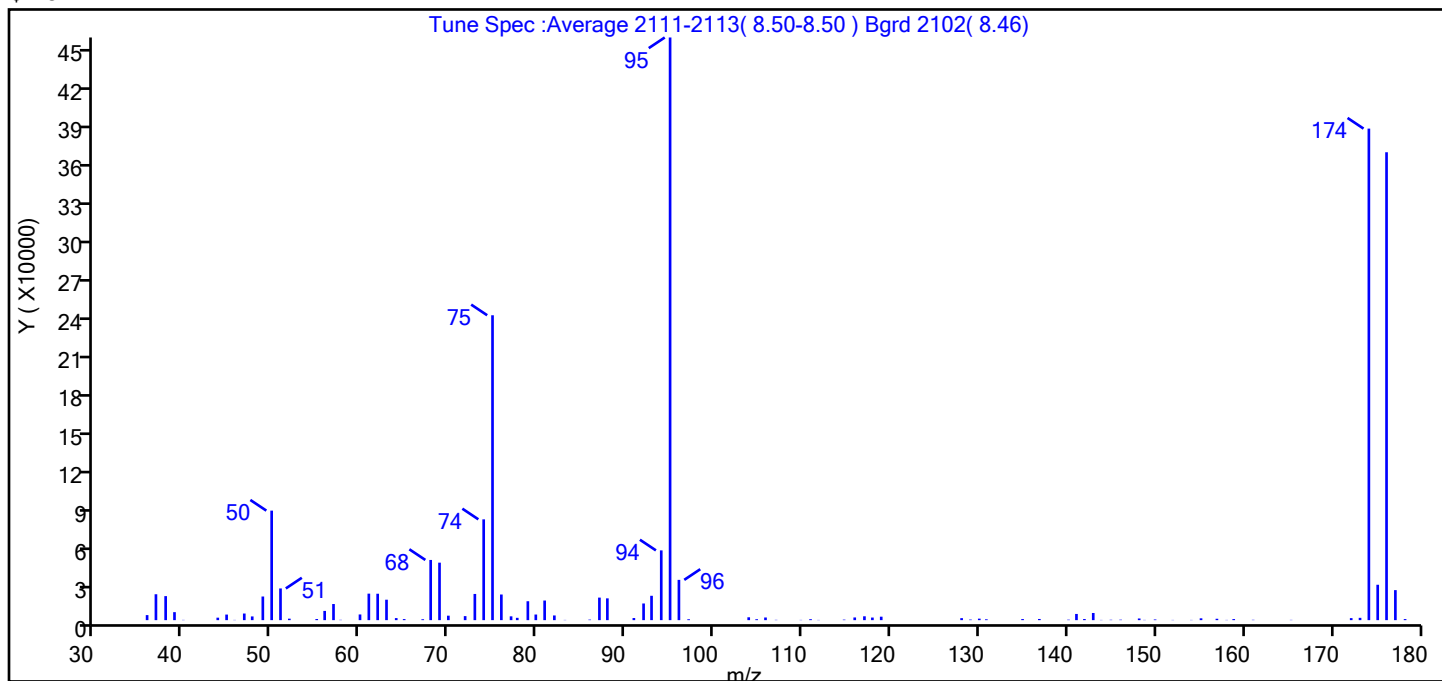
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 9 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.8
75	30 to 60% of m/z 95	52.3
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.4 (0.5)
174	50 to 120% of m/z 95	84.4
175	5 to 9% of m/z 174	6.1 (7.2)
176	Greater than 95% but less than 101% of m/z 174	80.3 (95.2)
177	5 to 9% of m/z 176	5.2 (6.4)

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3107.D\AQ_VMSR1_8260.rslt\spectra.d
Injection Date: 29-Mar-2022 15:57:30
Spectrum: Tune Spec :Average 2111-2113(8.50-8.50) Bgrd 2102(8.46)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3900	67.00	686	96.00	31200	144.00	175
37.00	20064	68.00	46624	97.00	685	145.00	294
38.00	18616	69.00	44528	104.00	2214	146.00	362
39.00	6193	70.00	3461	105.00	720	148.00	1285
40.00	196	72.00	3116	106.00	2053	149.00	186
44.00	1911	73.00	20288	107.00	237	150.00	526
45.00	4317	74.00	78080	110.00	187	152.00	171
46.00	182	75.00	236160	111.00	737	154.00	175
47.00	5121	76.00	19864	112.00	168	155.00	1416
48.00	2872	77.00	2951	115.00	405	157.00	1066
49.00	18312	78.00	1795	116.00	2077	158.00	181
50.00	84832	79.00	14652	117.00	2984	159.00	824
51.00	24552	80.00	4353	118.00	2010	161.00	270
52.00	1138	81.00	15193	119.00	2679	165.00	211
55.00	858	82.00	3630	128.00	1550	172.00	1563
56.00	7149	83.00	179	129.00	450	173.00	1791
57.00	12487	86.00	419	130.00	1150	174.00	380736
58.00	241	87.00	17456	131.00	653	175.00	27408
60.00	4404	88.00	16880	135.00	841	176.00	362432
61.00	20528	91.00	1634	137.00	906	177.00	23248
62.00	20456	92.00	12907	140.00	368	178.00	824
63.00	15832	93.00	18872	141.00	4798		
64.00	1592	94.00	54032	142.00	860		
65.00	824	95.00	451328	143.00	5542		

Report Date: 29-Mar-2022 21:11:05

Chrom Revision: 2.3 18-Mar-2022 09:07:22

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20220329-109642.b\R3107.D

Injection Date: 29-Mar-2022 15:57:30

Instrument ID: VMS_R1

Operator ID: peppinga

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

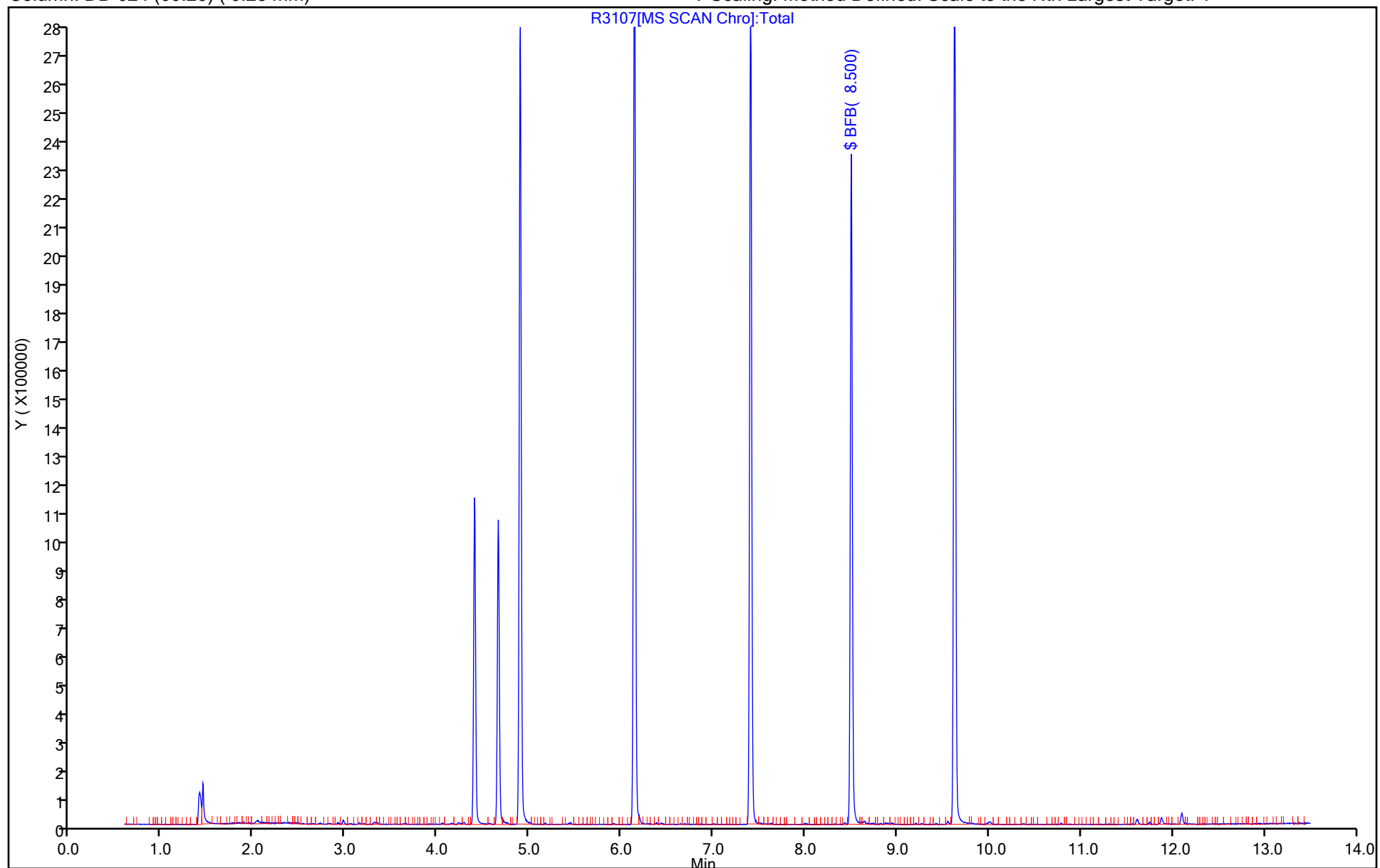
ALS Bottle#: 1

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6567.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 30-Jul-2023 15:30:30 ALS Bottle#: 100 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Operator ID: bustillose Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 31-Jul-2023 09:03:57 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1684

First Level Reviewer: LP8K

Date: 30-Jul-2023 16:51:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	3.389	3.389	0.000	82	707114	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6567.D

Injection Date: 30-Jul-2023 15:30:30

Instrument ID: VMS_R1

Lims ID: BFB

Client ID:

Operator ID: bustillose

ALS Bottle#: 100

Worklist Smp#: 1

Injection Vol: 2.0 uL

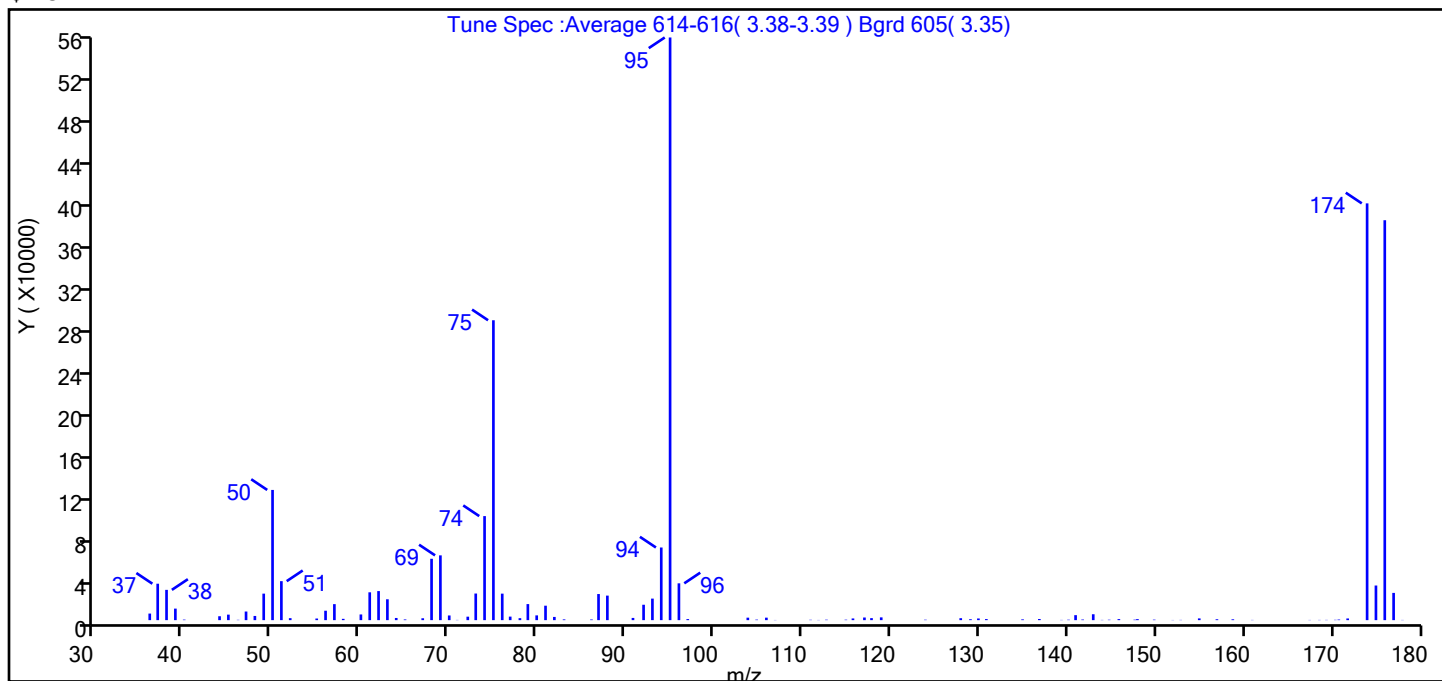
Dil. Factor: 1.0000

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.3
75	30 to 60% of m/z 95	51.5
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	71.5
175	5 to 9% of m/z 174	5.9 (8.3)
176	Greater than 95% but less than 101% of m/z 174	68.6 (96.0)
177	5 to 9% of m/z 176	4.7 (6.8)

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6567.D\AQ_VMSR1_8260.rsl\spectra.d
Injection Date: 30-Jul-2023 15:30:30
Spectrum: Tune Spec :Average 614-616(3.38-3.39) Bgrd 605(3.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6317	68.00	58968	97.00	1009	144.00	223
37.00	35008	69.00	62256	104.00	2377	145.00	419
38.00	29096	70.00	4490	105.00	519	146.00	1001
39.00	11083	71.00	210	106.00	2388	148.00	452
40.00	509	72.00	3331	107.00	170	148.00	970
44.00	3761	73.00	25576	111.00	349	150.00	477
45.00	5297	74.00	99984	112.00	184	152.00	169
46.00	311	75.00	288192	113.00	446	153.00	234
47.00	8287	76.00	25472	115.00	444	155.00	1664
48.00	4030	77.00	3400	116.00	1629	157.00	850
49.00	25480	78.00	1899	117.00	2534	159.00	799
50.00	125128	79.00	15427	118.00	1935	161.00	217
51.00	37464	80.00	4577	119.00	2663	167.00	198
52.00	1905	81.00	13879	124.00	415	168.00	221
55.00	1550	82.00	3089	128.00	1865	169.00	244
56.00	9049	83.00	717	129.00	872	170.00	313
57.00	15384	86.00	623	130.00	1597	171.00	591
58.00	1254	87.00	25088	131.00	1028	172.00	1610
60.00	5468	88.00	23576	135.00	740	174.00	400512
61.00	26752	91.00	2134	137.00	1088	175.00	33272
62.00	27928	92.00	14799	139.00	218	176.00	384320
63.00	20056	93.00	20696	140.00	431	177.00	26184
64.00	2090	94.00	69816	141.00	4788	178.00	200
65.00	670	95.00	559936	142.00	589		
67.00	1808	96.00	35376	143.00	5666		

Report Date: 31-Jul-2023 09:03:57

Chrom Revision: 2.3 26-Jul-2023 13:45:38

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6567.D

Injection Date: 30-Jul-2023 15:30:30

Instrument ID: VMS_R1

Operator ID: bustillose

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

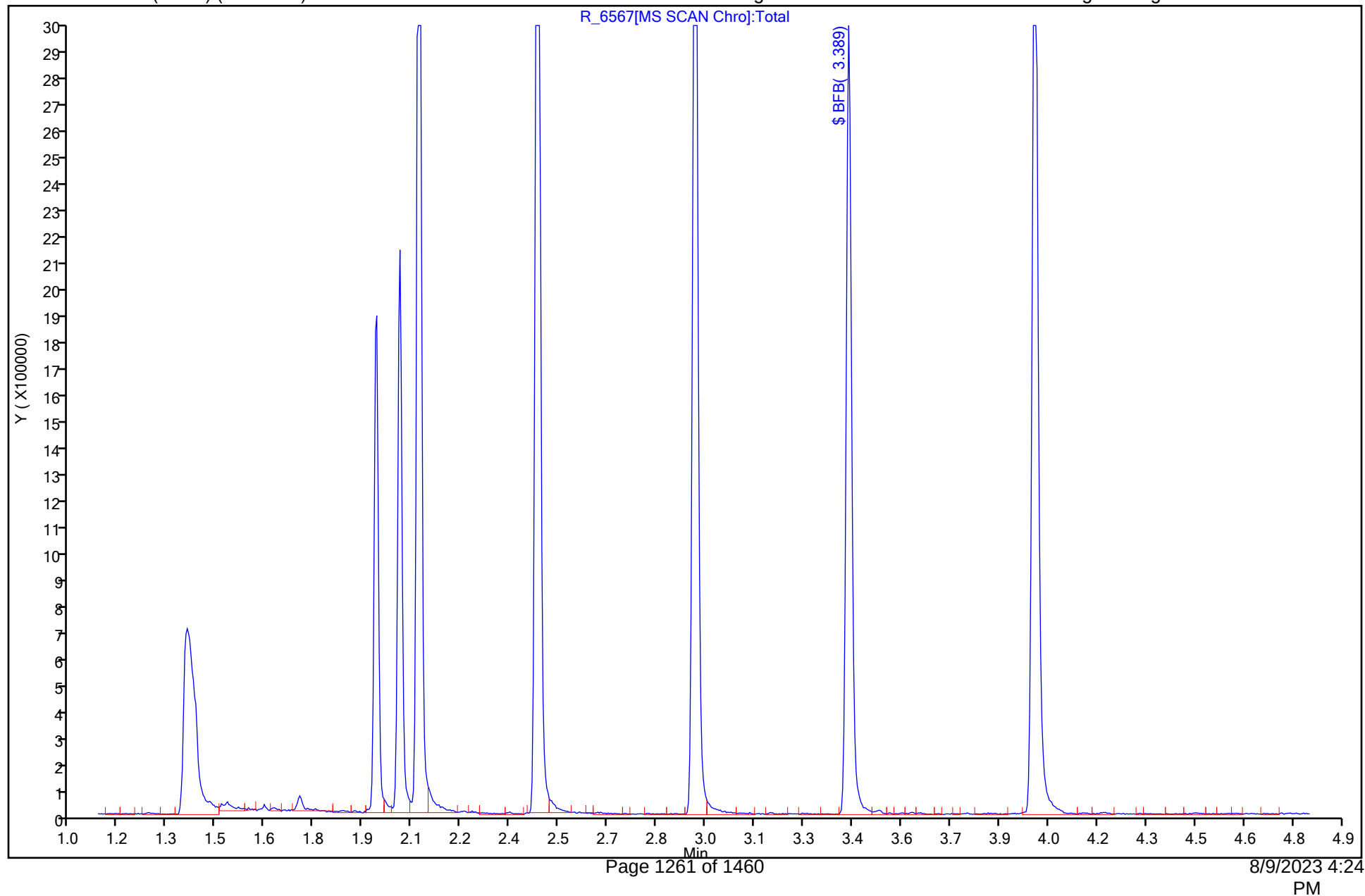
ALS Bottle#: 100

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787c.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 03-Aug-2023 16:12:30 ALS Bottle#: 29 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-033
 Operator ID: wickhamt Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:27:58 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 16:42:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	8.414	8.414	0.000	82	789115	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787c.D

Injection Date: 03-Aug-2023 16:12:30

Instrument ID: VMS_R1

Lims ID: BFB

Client ID:

Operator ID: wickhamt

ALS Bottle#:

29

Worklist Smp#:

1

Injection Vol: 2.0 uL

Dil. Factor:

1.0000

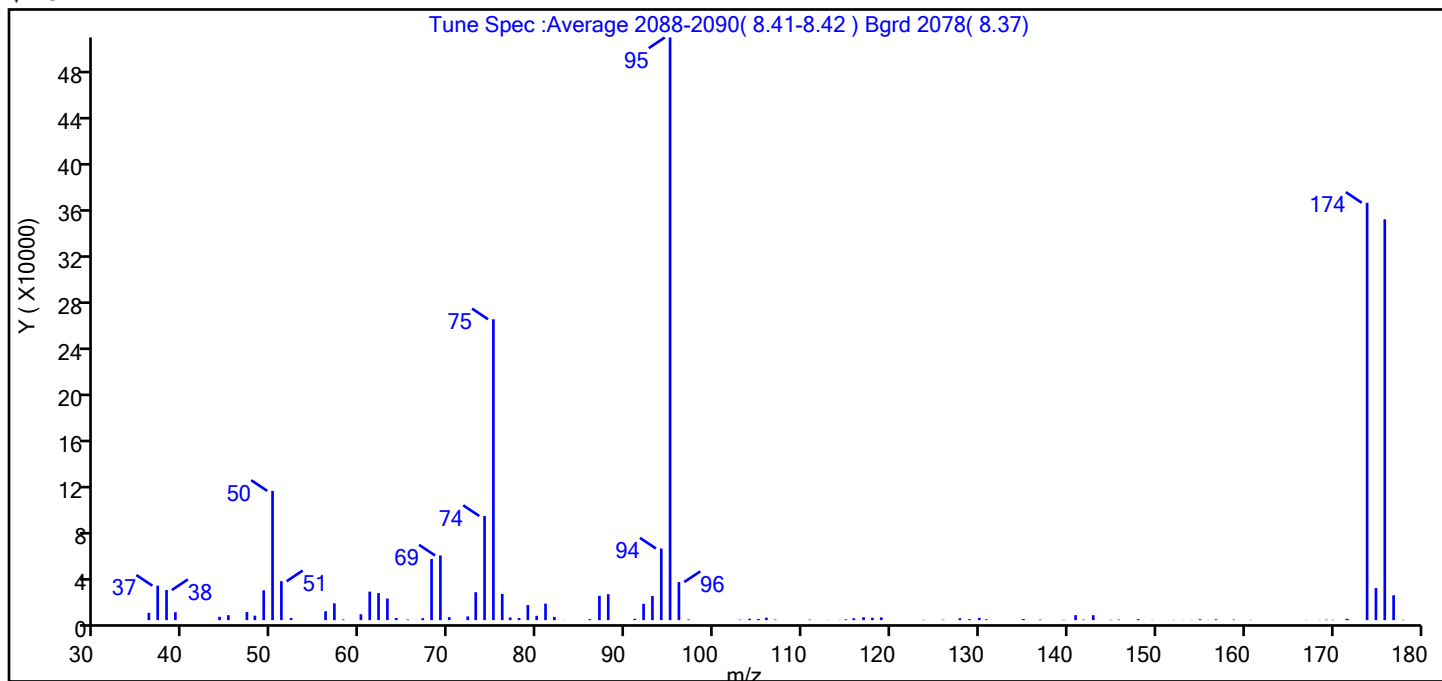
Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.2
75	30 to 60% of m/z 95	51.6
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	71.6
175	5 to 9% of m/z 174	5.5 (7.7)
176	Greater than 95% but less than 101% of m/z 174	68.8 (96.0)
177	5 to 9% of m/z 176	4.3 (6.2)

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787c.D\AQ_VMSR1_8260.rsl\spectra.d
Injection Date: 03-Aug-2023 16:12:30
Spectrum: Tune Spec :Average 2088-2090(8.41-8.42) Bgrd 2078(8.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6295	70.00	2591	104.00	1181	143.00	4257
37.00	29768	72.00	3267	105.00	1056	145.00	353
38.00	26008	73.00	24160	106.00	2125	146.00	491
39.00	6843	74.00	90024	107.00	492	148.00	851
44.00	2939	75.00	260032	111.00	436	150.00	184
45.00	4272	76.00	22720	113.00	184	152.00	173
47.00	6995	77.00	2335	114.00	182	153.00	172
48.00	3867	78.00	1825	115.00	670	154.00	166
49.00	25760	79.00	13025	116.00	1648	155.00	813
50.00	111704	80.00	3769	117.00	2543	156.00	169
51.00	33648	81.00	14311	118.00	2056	157.00	730
52.00	1885	82.00	2807	119.00	2417	159.00	465
56.00	7713	83.00	123	124.00	346	161.00	226
57.00	14543	86.00	870	126.00	402	167.00	188
58.00	631	87.00	21008	128.00	1638	168.00	167
60.00	5100	88.00	22416	129.00	874	169.00	407
61.00	24656	91.00	1123	130.00	1991	170.00	368
62.00	23360	92.00	14121	131.00	731	172.00	1165
63.00	18696	93.00	20824	135.00	986	172.00	444
64.00	1846	94.00	61912	137.00	488	174.00	360704
65.00	555	95.00	503552	139.00	195	175.00	27640
67.00	1675	96.00	32936	140.00	212	176.00	346368
68.00	52872	97.00	565	141.00	4302	177.00	21536
69.00	55880	103.00	410	142.00	465	178.00	319

Report Date: 04-Aug-2023 23:27:58

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787c.D

Injection Date: 03-Aug-2023 16:12:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

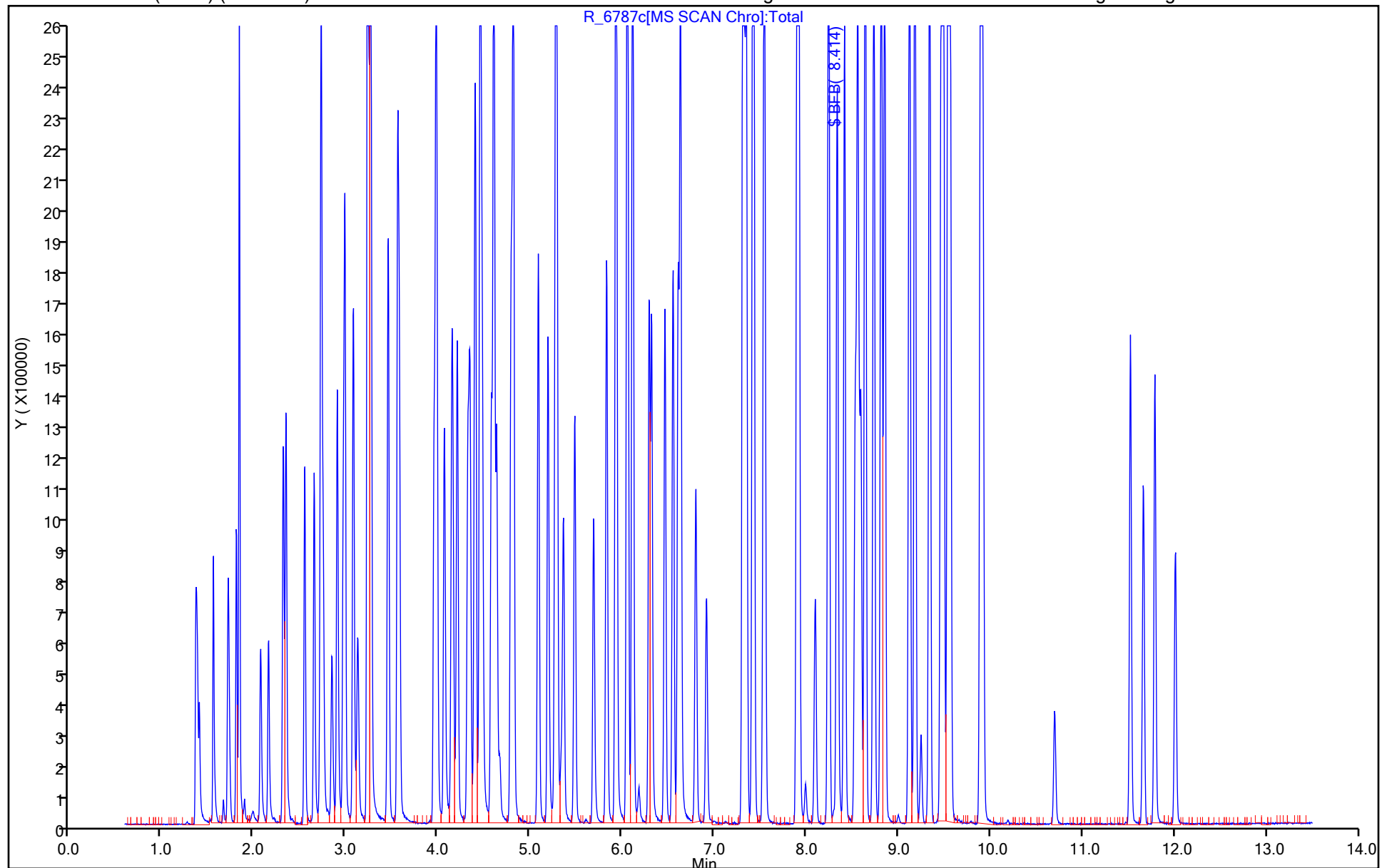
ALS Bottle#: 29

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6844a.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 04-Aug-2023 15:54:30 ALS Bottle#: 28 Worklist Smp#: 1
 Injection Vol: 2.0 uL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124185-033
 Operator ID: wickhamt Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 10:35:42 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

First Level Reviewer: J6NB

Date: 05-Aug-2023 10:35:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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\$ 8 BFB	95	8.414	8.414	0.000	82	719839	NR	NR	
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QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

mv-Cent BFB_00005

Amount Added: 5.00

Units: uL

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6844a.D

Injection Date: 04-Aug-2023 15:54:30

Instrument ID: VMS_R1

Lims ID: BFB

Client ID:

Operator ID: wickhamt

ALS Bottle#:

28

Worklist Smp#:

1

Injection Vol: 2.0 uL

Dil. Factor:

1.0000

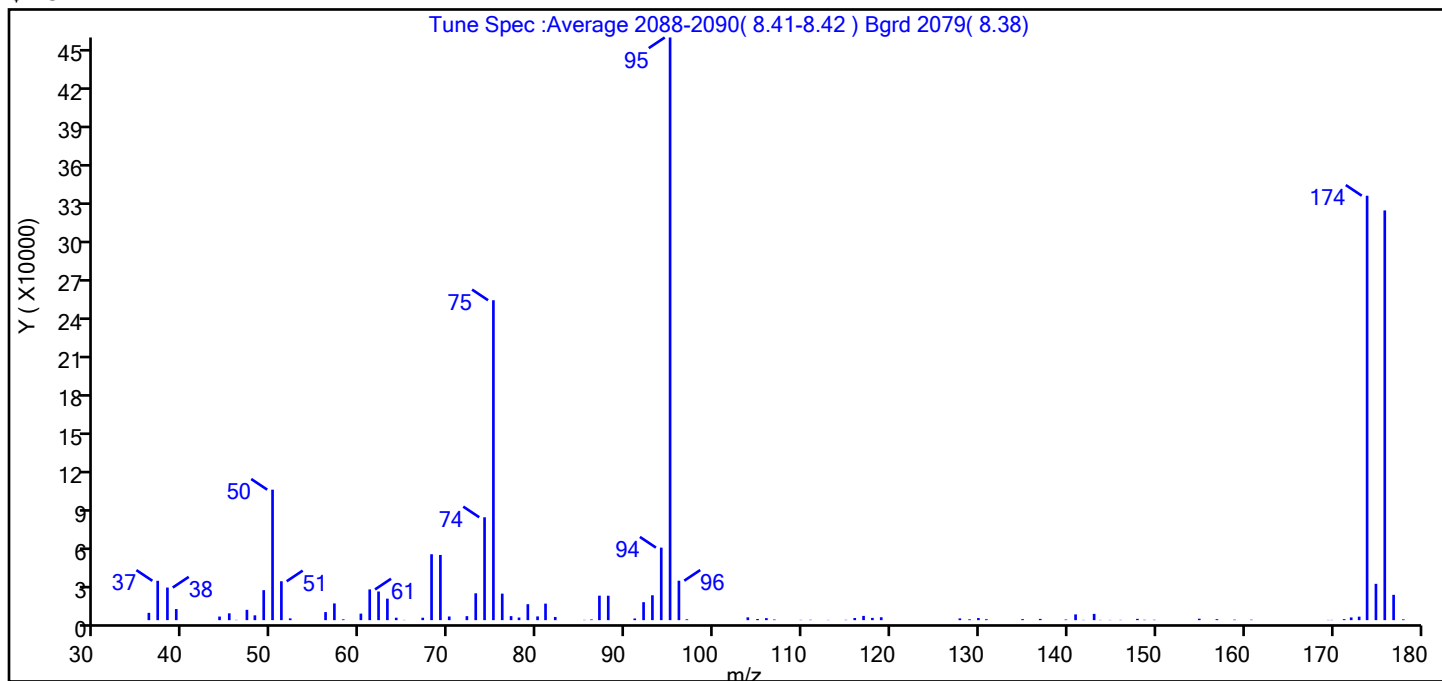
Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

Tune Method: BFB Method 8260

\$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.4
75	30 to 60% of m/z 95	54.9
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.6 (0.8)
174	50 to 120% of m/z 95	72.8
175	5 to 9% of m/z 174	6.2 (8.6)
176	Greater than 95% but less than 101% of m/z 174	70.3 (96.5)
177	5 to 9% of m/z 176	4.3 (6.2)

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6844a.D\AQ_VMSR1_8260.rsl\spectra.d
 Injection Date: 04-Aug-2023 15:54:30
 Spectrum: Tune Spec :Average 2088-2090(8.41-8.42) Bgrd 2079(8.38)
 Base Peak: 95.00
 Minimum % Base Peak: 0
 Number of Points: 90

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5753	68.00	51976	96.00	31104	143.00	4948
37.00	31032	69.00	51424	97.00	677	144.00	196
38.00	25704	70.00	2891	104.00	2201	145.00	184
39.00	8747	72.00	3138	105.00	907	146.00	214
44.00	2842	73.00	21168	106.00	1600	148.00	1012
45.00	5372	74.00	81128	107.00	482	149.00	304
46.00	216	75.00	252288	110.00	224	150.00	302
47.00	8130	76.00	20912	111.00	301	155.00	1143
48.00	3789	77.00	3166	113.00	182	157.00	765
49.00	23640	78.00	2053	115.00	263	159.00	392
50.00	102896	79.00	12585	116.00	1683	161.00	353
51.00	30656	80.00	2939	117.00	3352	170.00	172
52.00	1384	81.00	13028	118.00	1773	170.00	183
56.00	6347	82.00	2521	119.00	2281	171.00	793
57.00	13190	85.00	219	128.00	1358	172.00	2145
58.00	620	86.00	530	129.00	669	173.00	2749
60.00	5138	87.00	19304	130.00	1656	174.00	334720
61.00	24224	88.00	19272	131.00	739	175.00	28640
62.00	22584	91.00	1316	135.00	792	176.00	323136
63.00	16944	92.00	14173	137.00	991	177.00	19960
64.00	1914	93.00	19616	140.00	479	178.00	610
65.00	180	94.00	57208	141.00	4536		
67.00	1913	95.00	459520	142.00	193		

Report Date: 05-Aug-2023 10:35:42

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6844a.D

Injection Date: 04-Aug-2023 15:54:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: BFB

Worklist Smp#: 1

Client ID:

Injection Vol: 2.0 uL

Dil. Factor: 1.0000

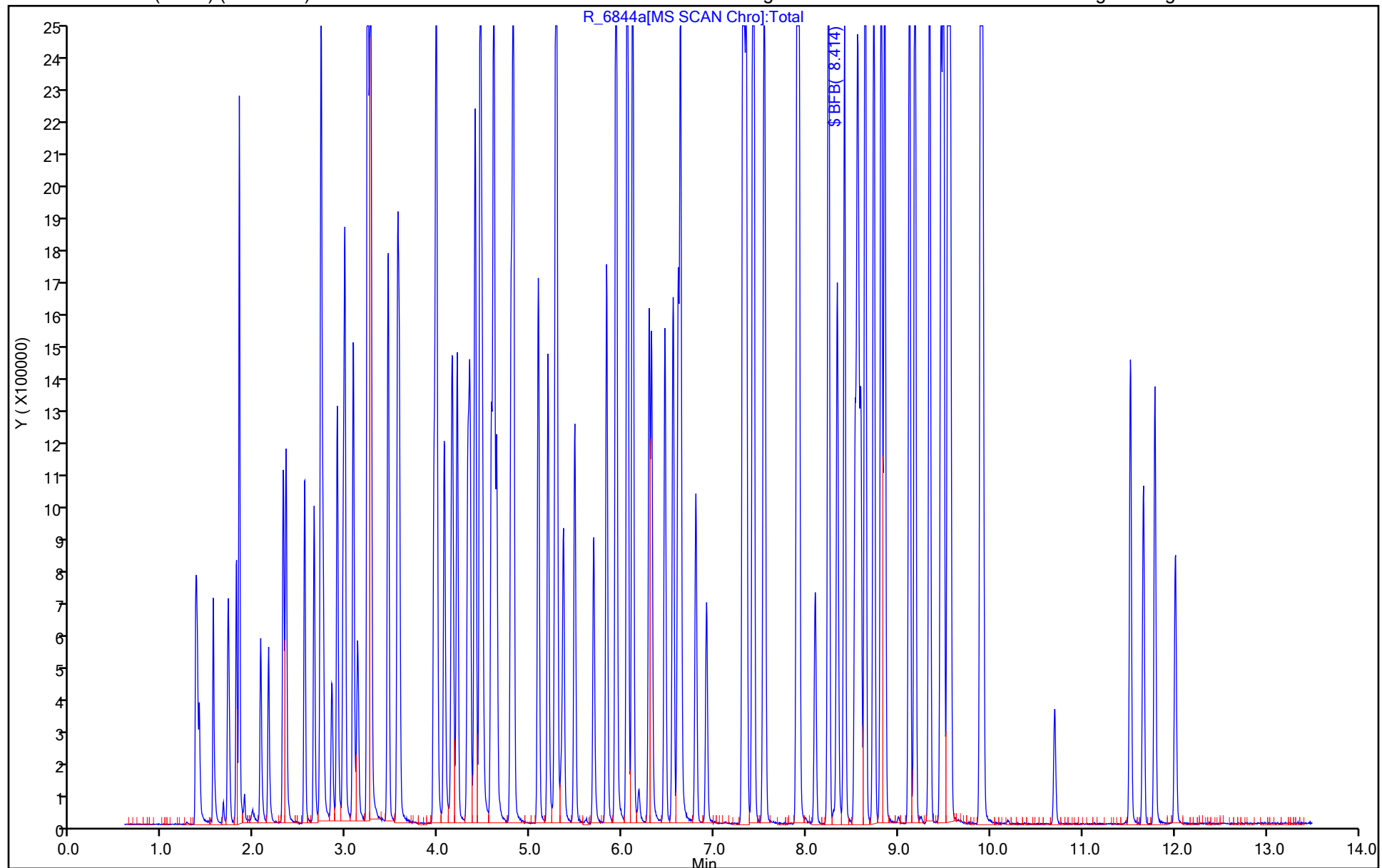
ALS Bottle#: 28

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621653/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000554.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 10:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621653/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000554.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 10:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-621653/9
Matrix: Water Lab File ID: ms11_00000554.D
Analysis Method: 8260D Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 10:19
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621653 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
2037-26-5	Toluene-d8 (Surr)	104		80-125
1868-53-7	Dibromofluoromethane (Surr)	98		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000554.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Aug-2023 10:19:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 12:16:01 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 12:16:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1677867	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	437921	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	757392	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	93	460446	50.0	49.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.844	4.830	0.014	0	637036	50.0	52.7	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1837227	50.0	52.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.643	8.643	0.000	90	684231	50.0	52.5	
\$ 8 BFB	95	8.643	8.643	0.000	78	685630		NR	
9 Dichlorodifluoromethane	85		1.702					ND	
10 Chloromethane	50		1.883					ND	U
11 Vinyl chloride	62		1.981					ND	
12 Bromomethane	94	2.274	2.246	0.028	83	3358		0.6374	
13 Chloroethane	64		2.344					ND	
14 Dichlorofluoromethane	67		2.526					ND	
15 Trichlorofluoromethane	101		2.554					ND	
16 Ethanol	45		2.679					ND	U
17 Ethyl ether	59		2.763					ND	
18 Acrolein	56		2.875					ND	
20 1,1,2-Trichloro-1,2,2-trifluoro	151		2.959					ND	
19 1,1-Dichloroethene	96		2.959					ND	
21 Acetone	43		2.973					ND	7
22 Isopropyl alcohol	45		3.056					ND	
23 Iodomethane	142		3.084					ND	
24 Carbon disulfide	76		3.140					ND	7
25 Acetonitrile	41	3.182	3.182	0.000	86	2005		1.61	
26 Methyl acetate	43		3.196					ND	
27 3-Chloro-1-propene	41		3.224					ND	U
28 Methylene Chloride	84	3.322	3.308	0.014	96	2851		0.3063	
29 2-Methyl-2-propanol	59		3.364					ND	U
30 Acrylonitrile	53		3.476					ND	
31 Methyl tert-butyl ether	73		3.489					ND	
32 trans-1,2-Dichloroethene	96		3.517					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	57		3.699					ND	U
34 Vinyl acetate	43		3.797					ND	7
36 Isopropyl ether	87		3.825					ND	
35 1,1-Dichloroethane	63		3.825					ND	
37 2-Chloro-1,3-butadiene	53		3.867					ND	
38 Tert-butyl ethyl ether	59		4.076					ND	
39 2-Butanone (MEK)	43		4.202					ND	
40 Ethyl acetate	43		4.216					ND	U
41 cis-1,2-Dichloroethene	96		4.230					ND	
43 Propionitrile	54		4.244					ND	
42 2,2-Dichloropropane	77		4.244					ND	
44 sec-Butyl Alcohol	45		4.313					ND	
45 Methacrylonitrile	41		4.355					ND	U
46 Chlorobromomethane	128		4.411					ND	
47 Tetrahydrofuran	42		4.411					ND	
48 Chloroform	83		4.467					ND	
49 1,1,1-Trichloroethane	97		4.607					ND	
50 Cyclohexane	56		4.663					ND	
51 1,1-Dichloropropene	75		4.719					ND	
52 Carbon tetrachloride	117		4.719					ND	
53 Isobutyl alcohol	43		4.732					ND	U
54 Benzene	78		4.872					ND	
55 1,2-Dichloroethane	62	4.900	4.886	0.014	89	2518		0.1857	
56 Tert-amyl methyl ether	73		4.928					ND	
57 n-Heptane	43		5.040					ND	
58 n-Butanol	56		5.207					ND	
59 Trichloroethene	130		5.347					ND	
60 2-Pentanone	43		5.445					ND	
63 Methyl methacrylate	100		5.542					ND	
61 Methylcyclohexane	55		5.543					ND	
62 1,2-Dichloropropane	63		5.543					ND	
64 1,4-Dioxane	88		5.598					ND	
65 Dibromomethane	93		5.626					ND	
66 Dichlorobromomethane	83		5.738					ND	
67 2-Nitropropane	41		5.892					ND	
68 2-Chloroethyl vinyl ether	63		5.934					ND	
69 cis-1,3-Dichloropropene	75		6.087					ND	
70 4-Methyl-2-pentanone (MIBK)	43		6.185					ND	
71 Toluene	91		6.367					ND	7
72 trans-1,3-Dichloropropene	75		6.534					ND	
73 Ethyl methacrylate	69		6.562					ND	
74 1,1,2-Trichloroethane	97		6.716					ND	
75 Tetrachloroethene	164		6.813					ND	
76 1,3-Dichloropropane	76		6.855					ND	
77 2-Hexanone	43		6.869					ND	
78 Chlorodibromomethane	129		7.051					ND	
79 Ethylene Dibromide	107		7.163					ND	
80 1-Chlorohexane	91		7.554					ND	7
81 Chlorobenzene	112		7.596					ND	
82 1,1,1,2-Tetrachloroethane	131		7.665					ND	
83 Ethylbenzene	106		7.665					ND	
84 m-Xylene & p-Xylene	91		7.791					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 o-Xylene	106		8.140					ND	
86 Styrene	104		8.154					ND	
87 Bromoform	173		8.336					ND	
88 Isopropylbenzene	105		8.475					ND	
89 cis-1,4-Dichloro-2-butene	53		8.517					ND	U
90 Cyclohexanone	55		8.573					ND	
91 1,1,2,2-Tetrachloroethane	83		8.755					ND	
93 trans-1,4-Dichloro-2-butene	53		8.797					ND	U
92 Bromobenzene	156		8.797					ND	
94 1,2,3-Trichloropropane	110		8.825					ND	
95 N-Propylbenzene	120		8.866					ND	
96 2-Chlorotoluene	126		8.964					ND	
97 1,3,5-Trimethylbenzene	105		9.034					ND	
98 4-Chlorotoluene	126		9.090					ND	
99 tert-Butylbenzene	119		9.341					ND	
100 1,2,4-Trimethylbenzene	105		9.397					ND	7
101 sec-Butylbenzene	134		9.565					ND	
102 1,3-Dichlorobenzene	146		9.690					ND	
103 4-Isopropyltoluene	119		9.704					ND	
104 1,4-Dichlorobenzene	146		9.788					ND	
105 1,2,3-Trimethylbenzene	105		9.802					ND	
106 n-Butylbenzene	91		10.109					ND	
107 1,2-Dichlorobenzene	146		10.137					ND	
108 1,2-Dibromo-3-Chloropropane	157		10.906					ND	
109 1,3,5-Trichlorobenzene	180		11.101					ND	
110 1,2,4-Trichlorobenzene	180		11.730					ND	7
111 Hexachlorobutadiene	225		11.869					ND	
112 Naphthalene	128		11.995					ND	
113 1,2,3-Trichlorobenzene	180		12.204					ND	7
114 Methyl cyclohexane TIC	1		0.000					ND	
115 Ethylene oxide TIC	1		0.000					ND	
116 1-Chlorohexane TIC	1		0.000					ND	
117 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
118 Pentachloroethane	167		0.000					ND	
119 t-Amyl alcohol	1		0.000					ND	
120 Ethyl acrylate	55		0.000					ND	
121 Tetrahydrothiophene TIC	1		0.000					ND	
S 122 Xylenes, Total	106		0.000					ND	7
S 123 1,2-Dichloroethene, Total	1		0.000					ND	7
S 124 1,3-Dichloropropene, Total	1		0.000					ND	7
S 125 Trihalomethanes, Total	1		0.000					ND	7
S 126 TAH	1				0			0	7
S 127 Total BTEX	1		0.000					ND	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 12:16:11

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000554.D

Injection Date: 03-Aug-2023 10:19:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

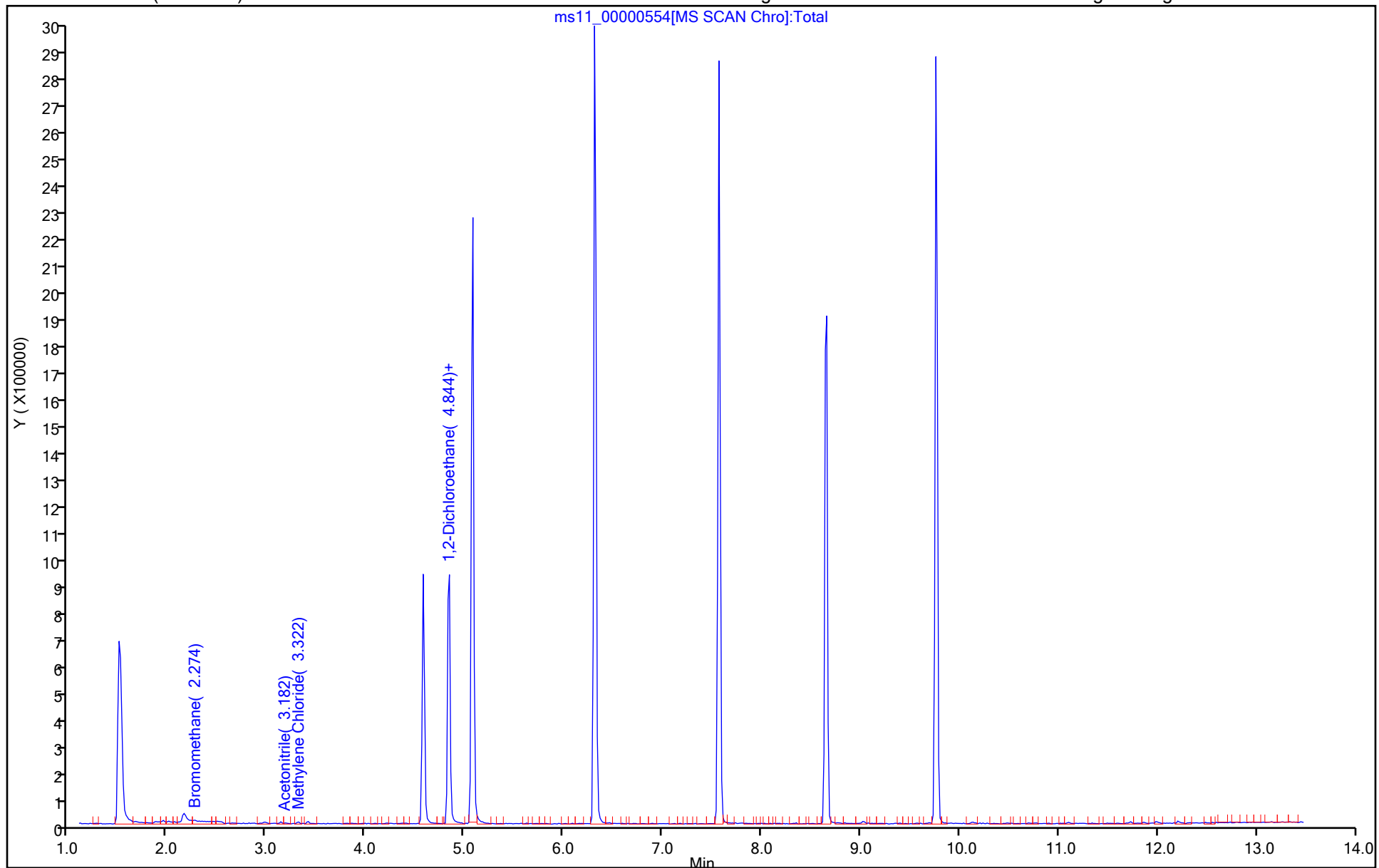
ALS Bottle#: 6

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000554.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Aug-2023 10:19:30 ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 12:16:01 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 12:16:01

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.1	98.27
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.48
\$ 6 Toluene-d8 (Surr)	50.0	52.0	104.04
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.5	105.04

Eurofins Denver

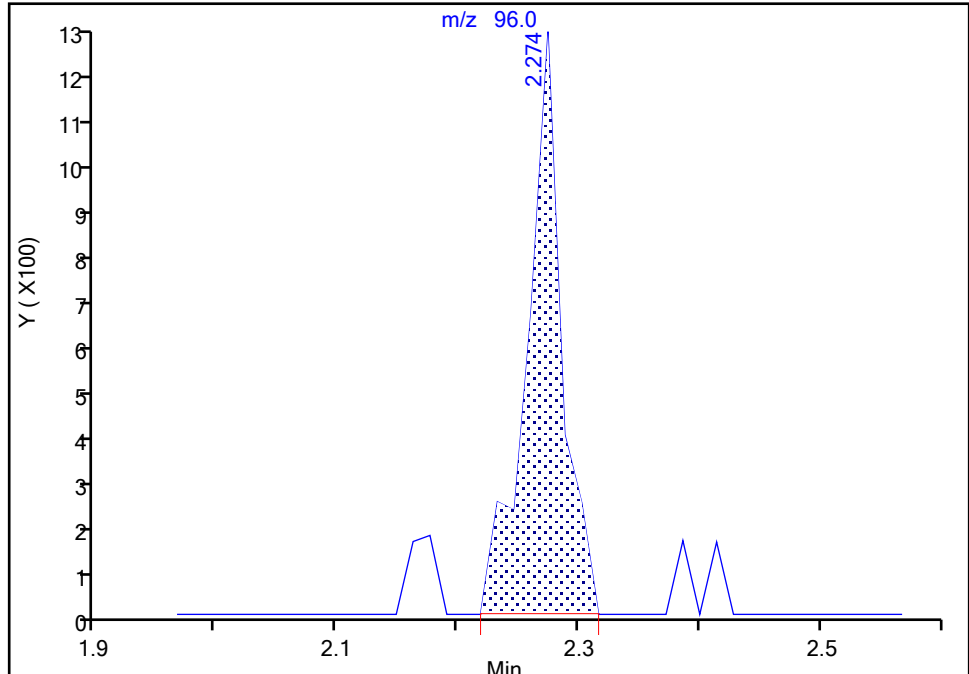
Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000554.D
Injection Date: 03-Aug-2023 10:19:30 Instrument ID: VMS_MS11
Lims ID: MB
Client ID:
Operator ID: MED ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

12 Bromomethane, CAS: 74-83-9

Signal: 2

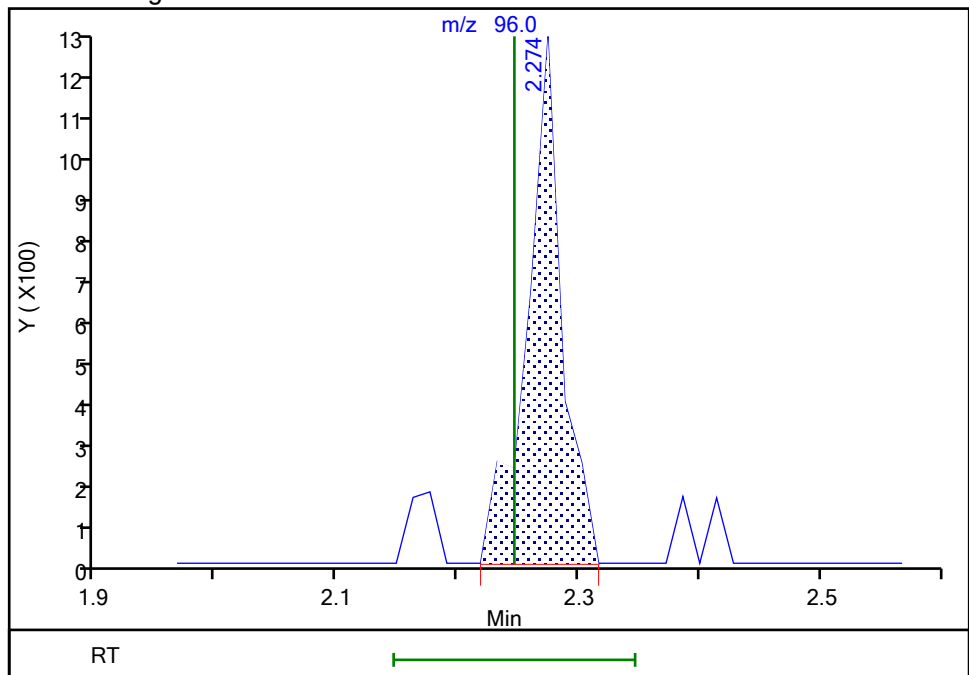
RT: 2.27
Area: 2470
Amount: 0.637387
Amount Units: ug/l

Processing Integration Results



RT: 2.27
Area: 2470
Amount: 0.637387
Amount Units: ug/l

Manual Integration Results



Reviewer: BX8N, 03-Aug-2023 12:13:47 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

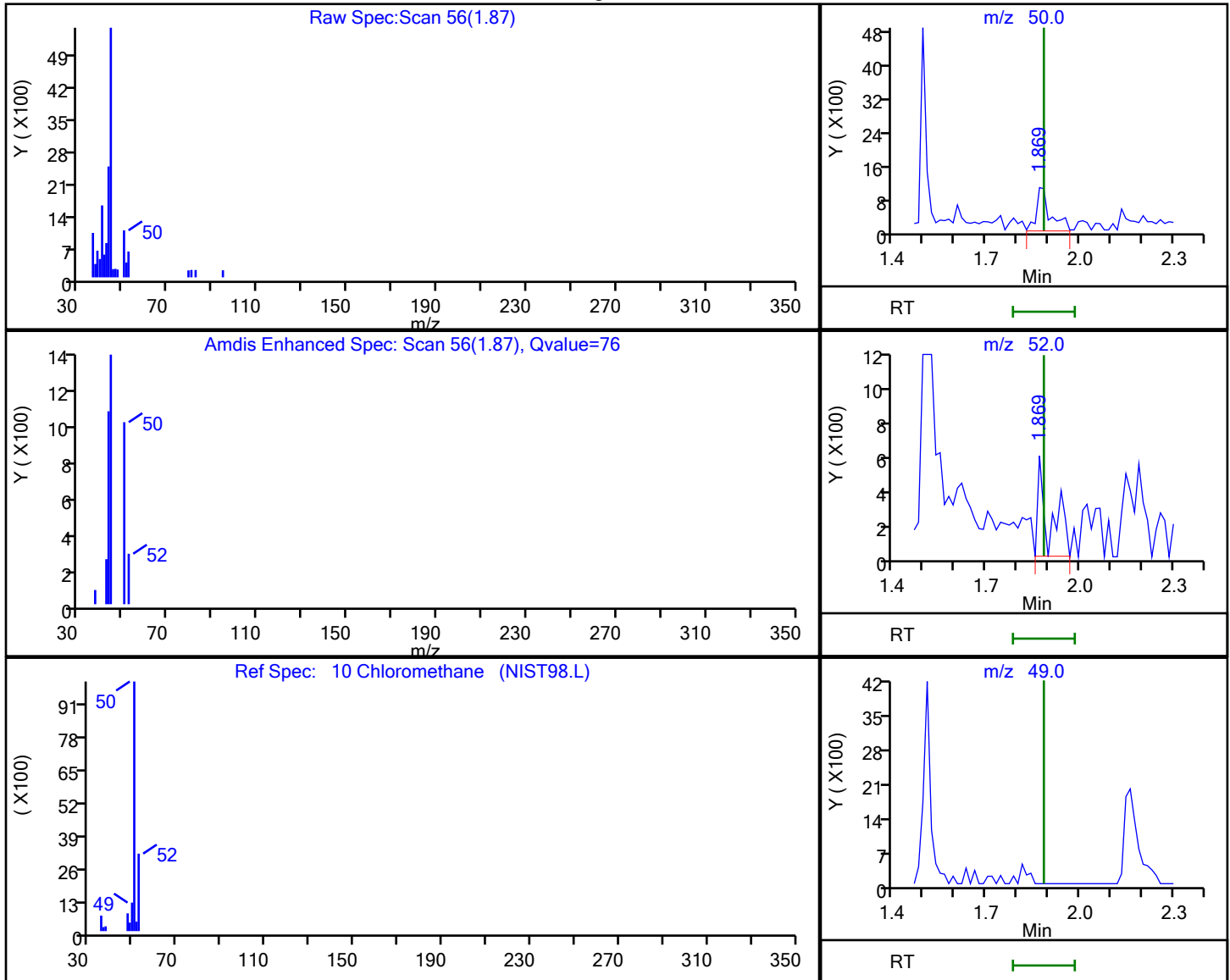
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000554.D
Injection Date: 03-Aug-2023 10:19:30 Instrument ID: VMS_MS11
Lims ID: MB
Client ID:
Operator ID: MED ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

10 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.87	50.00	3076	0.252604
1.87	52.00	1492	
1.88	49.00	0	

Reviewer: BX8N, 03-Aug-2023 12:14:31 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

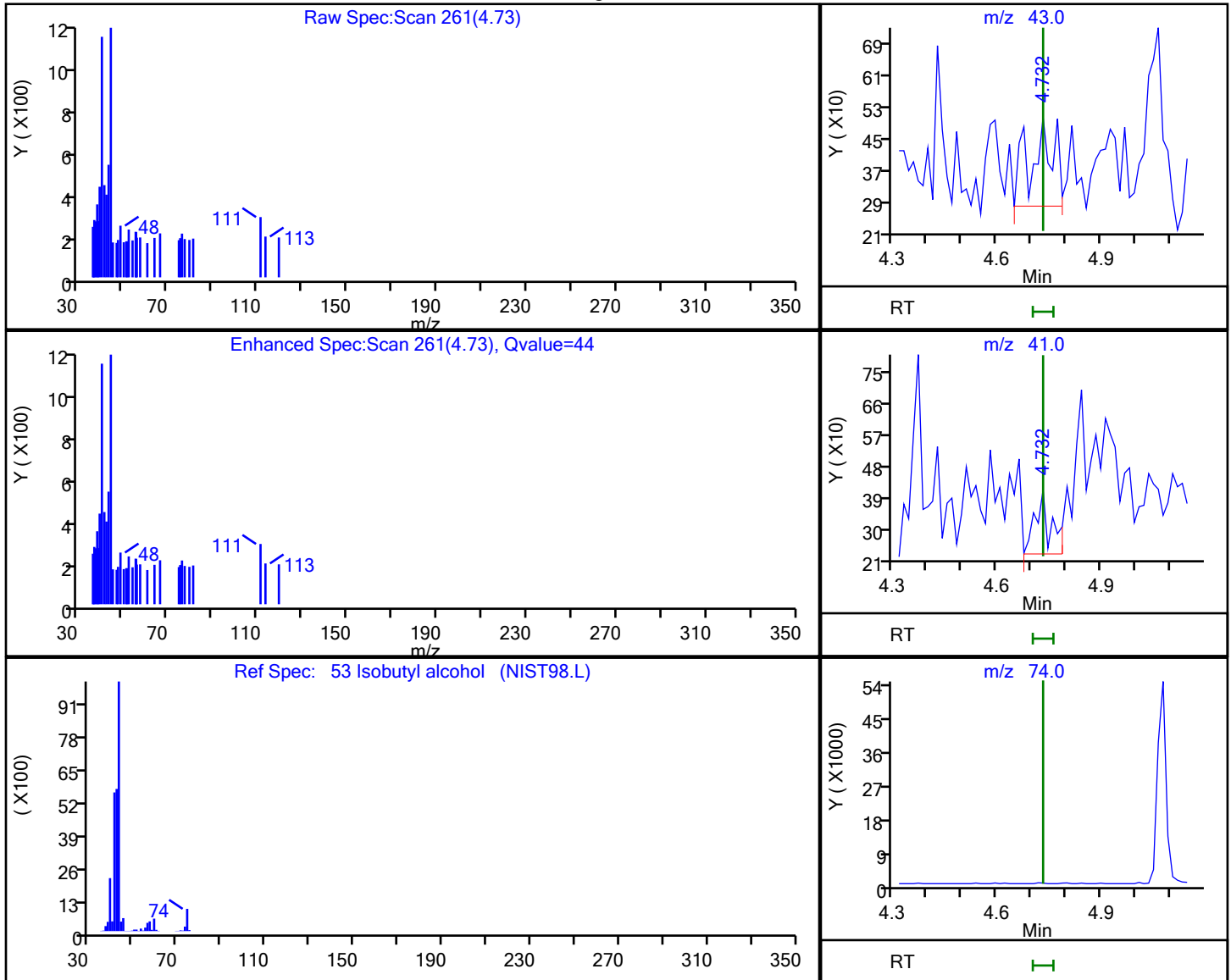
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000554.D
Injection Date: 03-Aug-2023 10:19:30 Instrument ID: VMS_MS11
Lims ID: MB
Client ID:
Operator ID: MED ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.73	43.00	1066	2.142006
4.73	41.00	567	
4.73	74.00	0	

Reviewer: BX8N, 03-Aug-2023 12:15:30 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

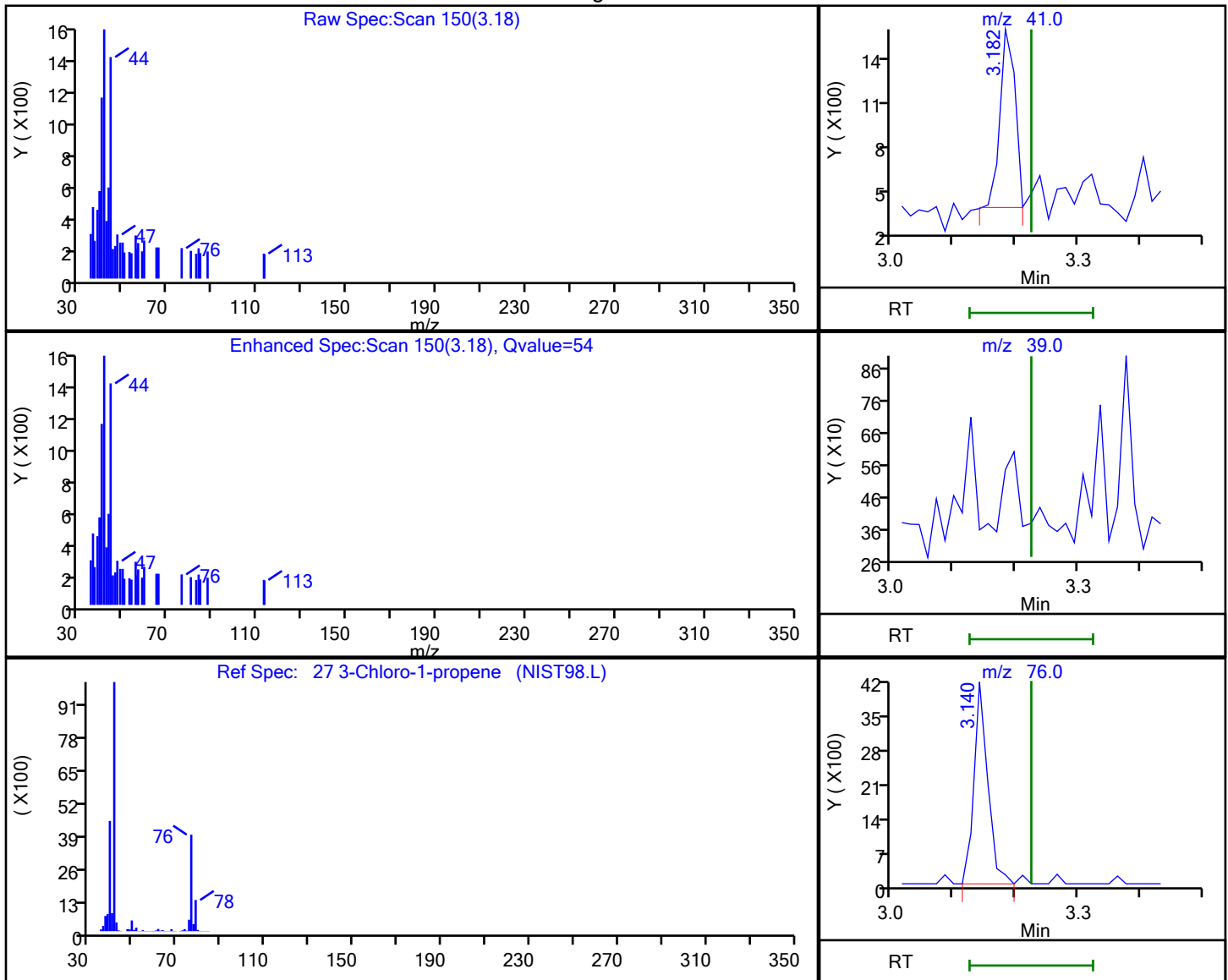
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000554.D
Injection Date: 03-Aug-2023 10:19:30 Instrument ID: VMS_MS11
Lims ID: MB
Client ID:
Operator ID: MED ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

27 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.18	41.00	2005	0.133084
3.22	39.00	0	
3.14	76.00	6489	

Reviewer: BX8N, 03-Aug-2023 12:14:56 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

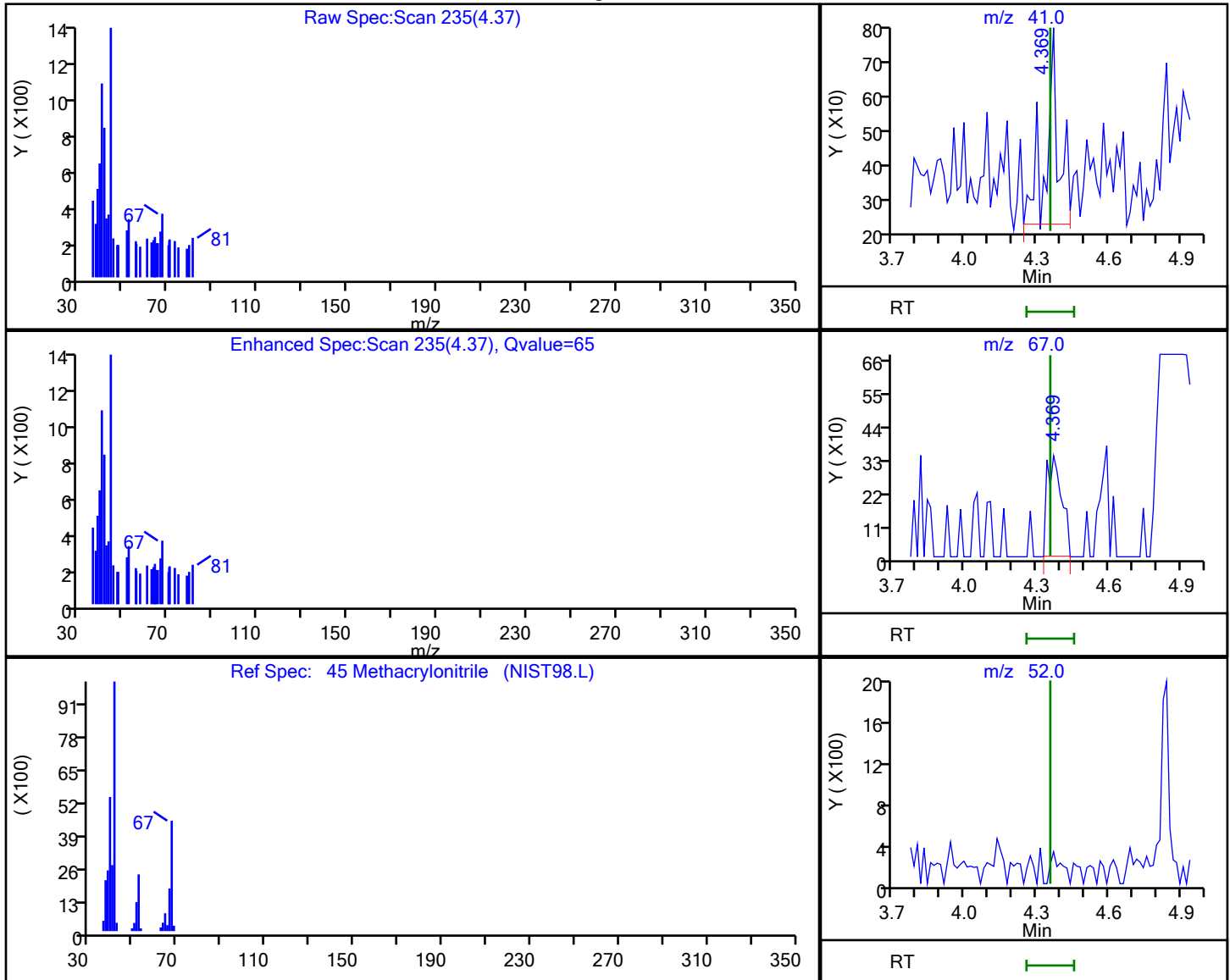
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000554.D
Injection Date: 03-Aug-2023 10:19:30 Instrument ID: VMS_MS11
Lims ID: MB
Client ID:
Operator ID: MED ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

45 Methacrylonitrile, CAS: 126-98-7

Processing Results



RT	Mass	Response	Amount
4.37	41.00	2077	0.412093
4.37	67.00	1446	
4.36	52.00	0	

Reviewer: BX8N, 03-Aug-2023 12:15:28 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

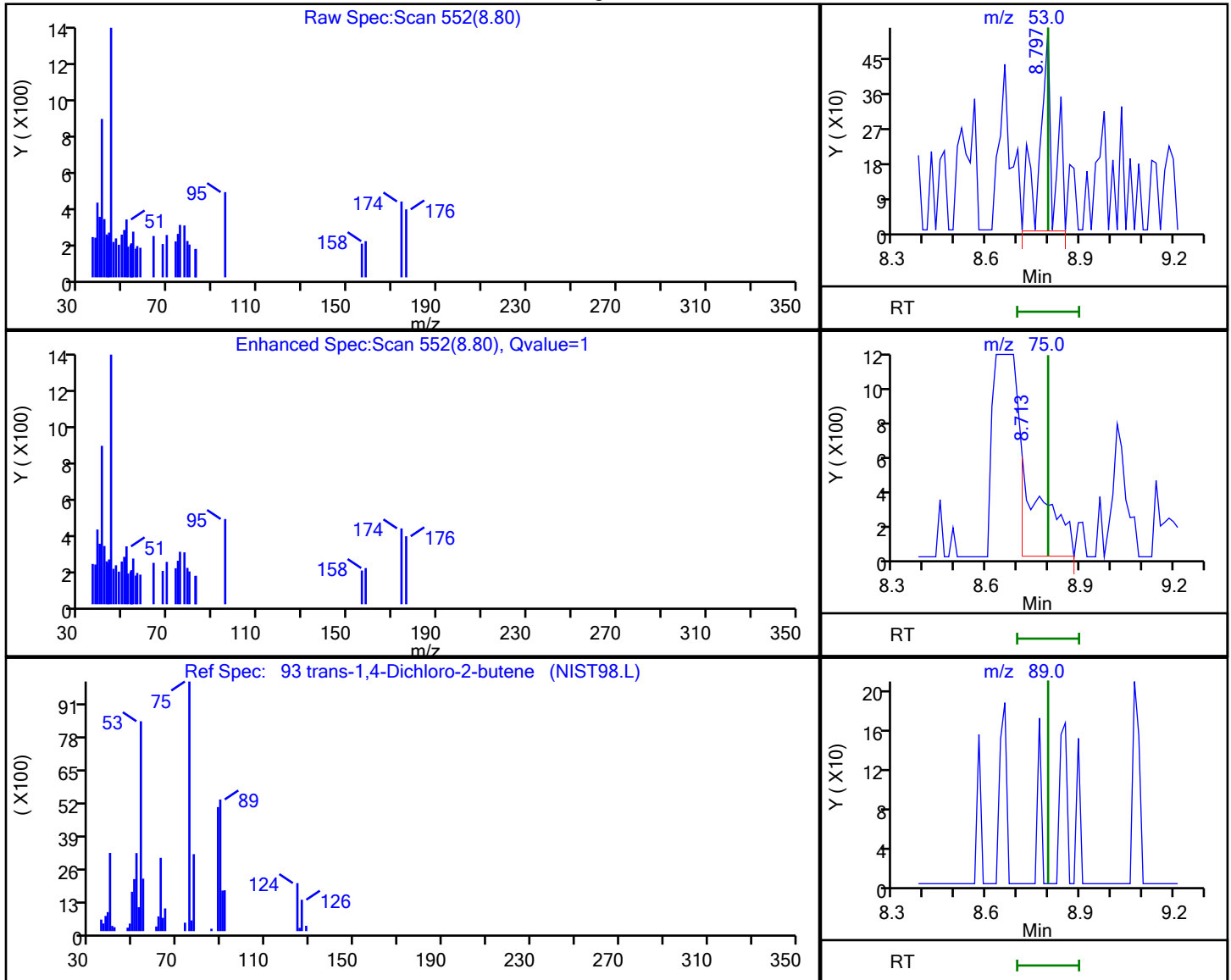
Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000554.D
Injection Date: 03-Aug-2023 10:19:30 Instrument ID: VMS_MS11
Lims ID: MB
Client ID:
Operator ID: MED ALS Bottle#: 6 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: AQ_VMS11_8260 Limit Group: MSV - 8260B Water and Solid
Column: DB-624 (0.25 mm) Detector: MS SCAN

93 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
8.80	53.00	1629	0.478866
8.71	75.00	2855	
8.80	89.00	0	

Reviewer: BX8N, 03-Aug-2023 12:15:47 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621775/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6792.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 18:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621775/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6792.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 18:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-621775/9
Matrix: Water Lab File ID: R_6792.D
Analysis Method: 8260D Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 18:17
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621775 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	104		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	102		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Aug-2023 18:17:30 ALS Bottle#: 4 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:12:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.815	-0.003	98	1829089	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	89	440179	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	660337	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.320	0.001	92	489623	50.0	50.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	604963	50.0	52.7	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1938707	50.0	51.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	663634	50.0	51.9	
\$ 8 BFB	95	8.414	8.414	0.000	82	663634		NR	
9 Dichlorodifluoromethane	85		1.554					ND	
10 Chloromethane	50		1.715					ND	
11 Vinyl chloride	62		1.801					ND	
13 Bromomethane	94		2.068					ND	
12 Ethylene oxide	43		2.075					ND	U
14 Chloroethane	64		2.150					ND	
15 Dichlorofluoromethane	67		2.311					ND	
16 Trichlorofluoromethane	101		2.341					ND	
17 Ethanol	45		2.457					ND	
18 Ethyl ether	59		2.547					ND	
19 Propene oxide	58		2.630					ND	
20 Acrolein	56		2.649					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.724					ND	
22 1,1-Dichloroethene	96		2.724					ND	
23 Acetone	43		2.746					ND	7
24 Isopropyl alcohol	45		2.832					ND	
25 Iodomethane	142		2.840					ND	
26 Carbon disulfide	76		2.900					ND	7
27 Acetonitrile	41		2.945					ND	U
28 Methyl acetate	43		2.967					ND	
29 3-Chloro-1-propene	41		2.982					ND	
30 Methylene Chloride	84		3.072					ND	7
31 2-Methyl-2-propanol	59		3.125					ND	
32 Acrylonitrile	53		3.230					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		3.256					ND	
34 trans-1,2-Dichloroethene	96		3.267					ND	
35 Hexane	57		3.455					ND	
36 Chlorotrifluoroethene	116		3.531					ND	
37 Vinyl acetate	43		3.556					ND	
38 Isopropyl ether	87		3.574					ND	
39 1,1-Dichloroethane	63		3.575					ND	
40 2-Chloro-1,3-butadiene	53		3.627					ND	
41 Tert-butyl ethyl ether	59		3.833					ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		3.951					ND	
43 2-Butanone (MEK)	43		3.953					ND	
44 Ethyl acetate	43		3.968					ND	
45 cis-1,2-Dichloroethene	96		3.972					ND	
46 2,2-Dichloropropane	77		3.983					ND	
47 Propionitrile	54		3.998					ND	
48 sec-Butyl Alcohol	45		4.066					ND	
49 Methacrylonitrile	41		4.107					ND	
50 Chlorobromomethane	128		4.148					ND	
51 Tetrahydrofuran	42		4.156					ND	
52 Chloroform	83		4.204					ND	
53 1,1,1-Trichloroethane	97		4.343					ND	
54 Cyclohexane	56		4.399					ND	
55 1,1-Dichloropropene	75		4.455					ND	
56 Carbon tetrachloride	117		4.459					ND	
57 Isobutyl alcohol	41		4.474					ND	U
58 Benzene	78		4.602					ND	7
59 1,2-Dichloroethane	62		4.632					ND	U
61 Tert-amyl methyl ether	73		4.673					ND	
60 1,2-Dichloro-1,1,2-trifluoroethane	117		4.678					ND	
62 1,1,1-Trifluoro-2,2-dichloroethane	83		4.706					ND	
63 n-Heptane	43		4.789					ND	
64 n-Butanol	56		4.969					ND	
65 Trichloroethene	95		5.085					ND	
66 2-Pentanone	43		5.190					ND	
67 Methylcyclohexane	55		5.273					ND	
68 1,2-Dichloropropane	63		5.288					ND	
69 Methyl methacrylate	100		5.299					ND	
70 1,4-Dioxane	88		5.336					ND	
71 Dibromomethane	93		5.359					ND	
72 Dichlorobromomethane	83		5.483					ND	
73 2-Nitropropane	41		5.647					ND	
74 2-Chloroethyl vinyl ether	63		5.685					ND	
75 cis-1,3-Dichloropropene	75		5.827					ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929					ND	
77 Toluene	91		6.112					ND	
78 trans-1,3-Dichloropropene	75		6.289					ND	
79 Ethyl methacrylate	69		6.319					ND	
80 1,1,2-Trichloroethane	97		6.461					ND	
81 Tetrachloroethene	164		6.551					ND	
82 1,3-Dichloropropane	76		6.607					ND	
83 2-Hexanone	43		6.630					ND	
84 Chlorodibromomethane	129		6.798					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Tetrahydrothiophene	60		6.847					ND	
86 Ethylene Dibromide	107		6.915					ND	
87 1-Chlorohexane	91		7.308					ND	U
88 Chlorobenzene	112		7.346					ND	
89 1,1,1,2-Tetrachloroethane	131		7.417					ND	
90 Ethylbenzene	106		7.424					ND	
91 m-Xylene & p-Xylene	106		7.544					ND	7
92 o-Xylene	106		7.900					ND	
93 Styrene	104		7.915					ND	
94 Bromoform	173		8.095					ND	
95 Isopropylbenzene	105		8.242					ND	
96 cis-1,4-Dichloro-2-butene	53		8.298					ND	
97 Cyclohexanone	55	8.414	8.335	0.079	5	1045		13.8	
98 1,1,2,2-Tetrachloroethane	83		8.530					ND	
99 Bromobenzene	156		8.553					ND	
100 trans-1,4-Dichloro-2-butene	53		8.568					ND	
101 1,2,3-Trichloropropane	110		8.590					ND	
102 N-Propylbenzene	120		8.639					ND	
103 2-Chlorotoluene	126		8.733					ND	
104 1,3,5-Trimethylbenzene	105		8.815					ND	
105 4-Chlorotoluene	126		8.849					ND	
106 tert-Butylbenzene	119		9.119					ND	
107 1,2,4-Trimethylbenzene	105		9.179					ND	
108 sec-Butylbenzene	134		9.340					ND	
109 Pentachloroethane	167		9.392					ND	
110 1,3-Dichlorobenzene	146		9.464					ND	
111 4-Isopropyltoluene	119		9.490					ND	
112 1,4-Dichlorobenzene	146		9.565					ND	
113 1,2,3-Trimethylbenzene	105		9.584					ND	
114 n-Butylbenzene	91		9.891					ND	
115 1,2-Dichlorobenzene	146		9.917					ND	
116 1,2-Dibromo-3-Chloropropane	157		10.697					ND	
117 1,3,5-Trichlorobenzene	180		10.888					ND	
118 1,2,4-Trichlorobenzene	180		11.522					ND	
119 Hexachlorobutadiene	225		11.664					ND	
120 Naphthalene	128		11.788					ND	
121 1,2,3-Trichlorobenzene	180		12.013					ND	
127 t-Amyl alcohol	1		0.000					ND	
134 2-Methylhexane	1		0.000					ND	
122 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
126 cis-1,4-Dichloro-2-butene TIC	1		0.000					ND	
129 Ethyl acrylate	55		0.000					ND	
131 Pentachloroethane TIC	1		0.000					ND	
130 2,2,3-Trimethylbutane	1		0.000					ND	
132 2,4-Dimethylpentane	1		0.000					ND	
124 n-Nonyl Aldehyde	1		0.000					ND	
125 Ethylene oxide TIC	1		0.000					ND	
133 3,3-Dimethylpentane	1		0.000					ND	
123 3-Ethylpentane	1		0.000					ND	
137 Dimethyl disulfide	1		0.000					ND	
136 2,2-Dimethylpentane	1		0.000					ND	
135 2,3-Dimethylpentane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
128 3-Methylhexane	1		0.000					ND	
138 Propene oxide TIC	58		5.334					ND	
S 144 TAH	1				0			0	
S 143 1,3-Dichloropropene, Total	1		0.000				ND		7
S 142 Trihalomethanes, Total	1		0.000				ND		7
S 141 Xylenes, Total	106		0.000				ND		7
S 140 1,2-Dichloroethene, Total	1		0.000				ND		7
S 139 Total BTEX	1		0.000				ND		7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D

Injection Date: 03-Aug-2023 18:17:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

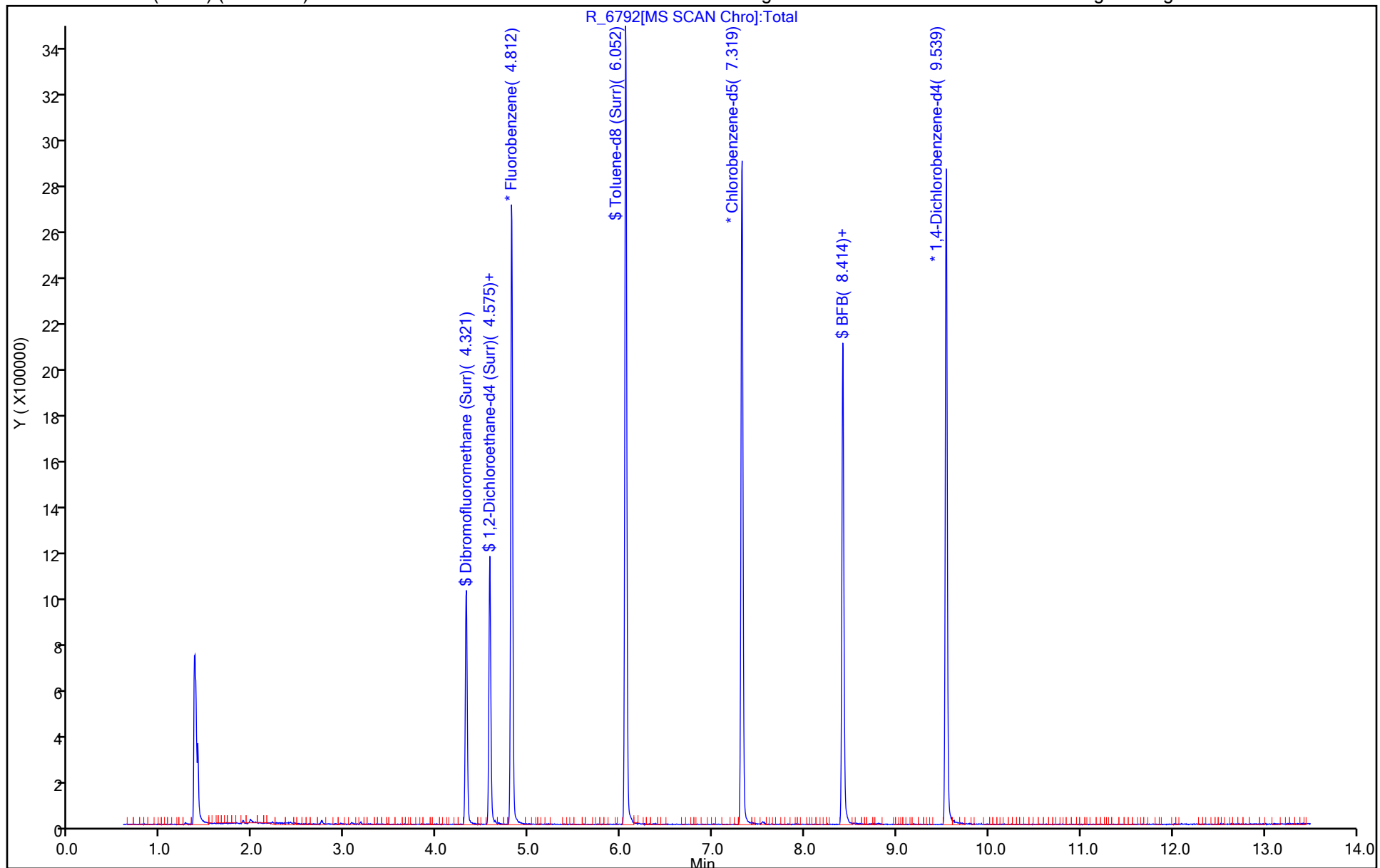
ALS Bottle#: 4

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\IR_6792.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Aug-2023 18:17:30 ALS Bottle#: 4 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: mb
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\IR_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 23:12:23

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.9	101.89
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.31
\$ 6 Toluene-d8 (Surr)	50.0	51.1	102.27
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.9	103.81

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D

Injection Date: 03-Aug-2023 18:17:30

Instrument ID: VMS_R1

Lims ID: MB

Client ID:

Operator ID: sjd

ALS Bottle#:

4

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

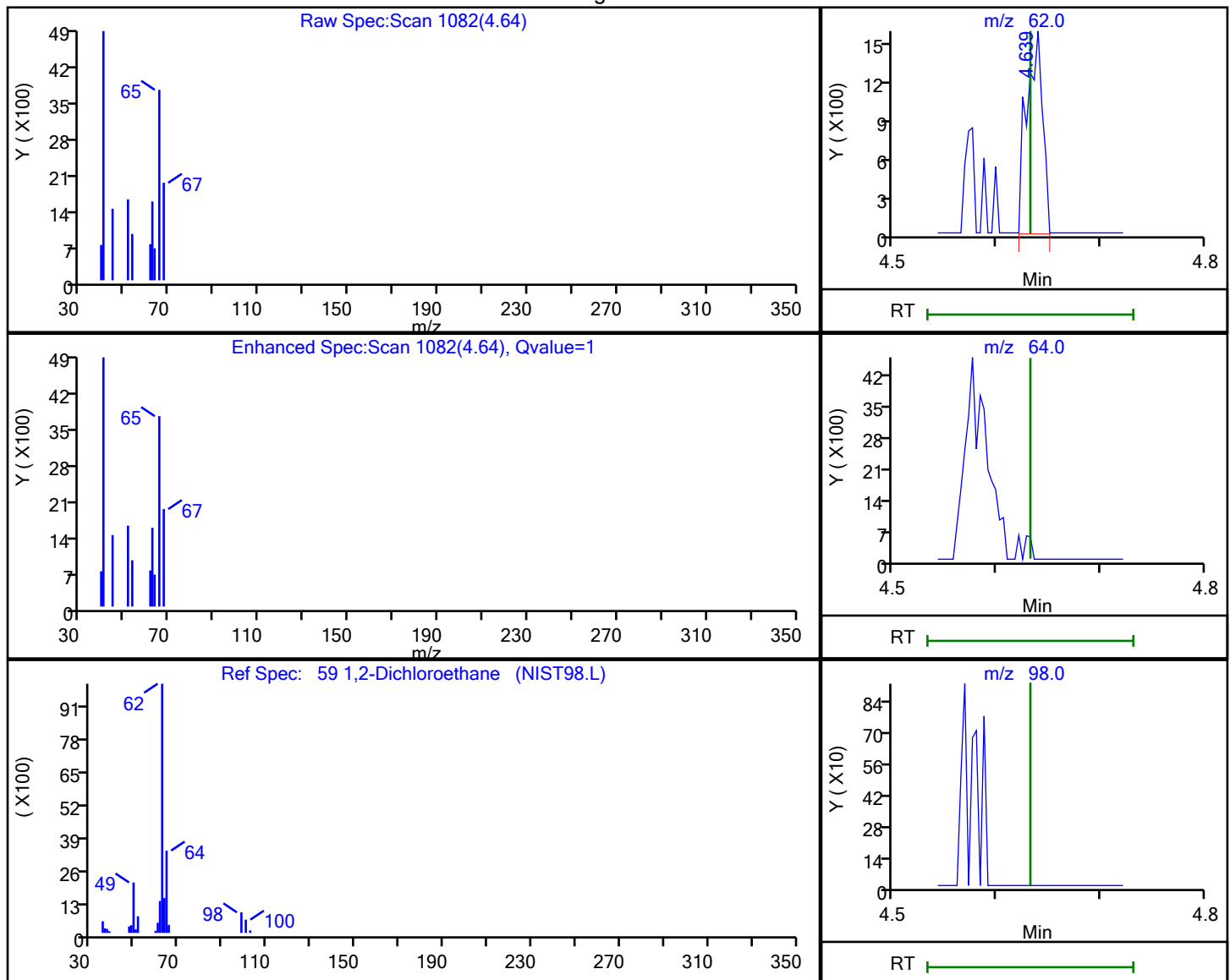
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.64	62.00	1656	0.132055
4.63	64.00	0	
4.63	98.00	0	

Reviewer: J6NB, 03-Aug-2023 23:12:04 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D

Injection Date: 03-Aug-2023 18:17:30

Instrument ID: VMS_R1

Lims ID: MB

Client ID:

Operator ID: sjd

ALS Bottle#:

4

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

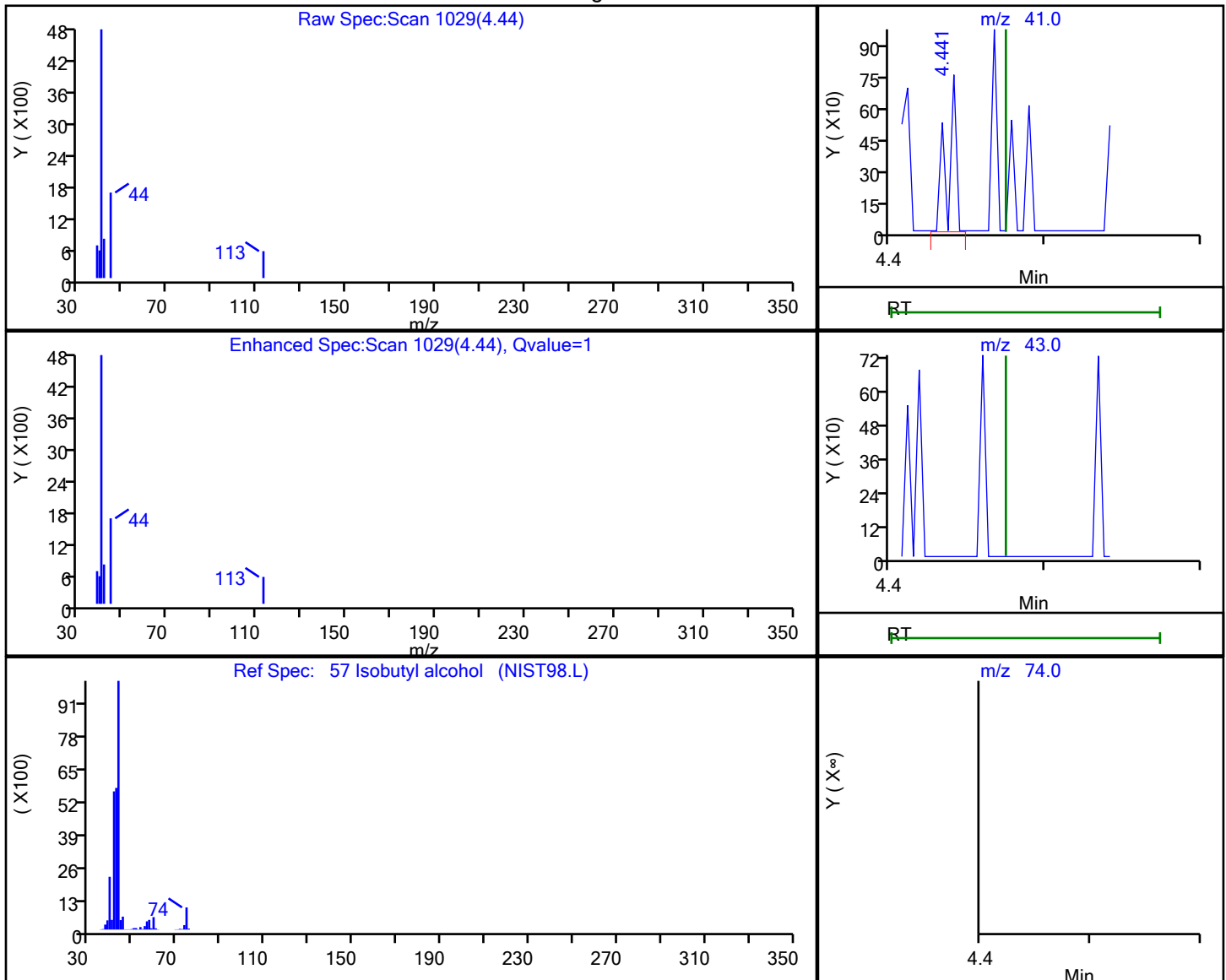
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

57 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
4.44	41.00	289	11.006183
4.47	43.00	0	
4.47	74.00	0	

Reviewer: J6NB, 03-Aug-2023 23:11:58 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6792.D

Injection Date: 03-Aug-2023 18:17:30

Instrument ID: VMS_R1

Lims ID: MB

Client ID:

Operator ID: sjd

ALS Bottle#:

4

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMSR1_8260

Limit Group:

MSV - 8260B Water and Solid

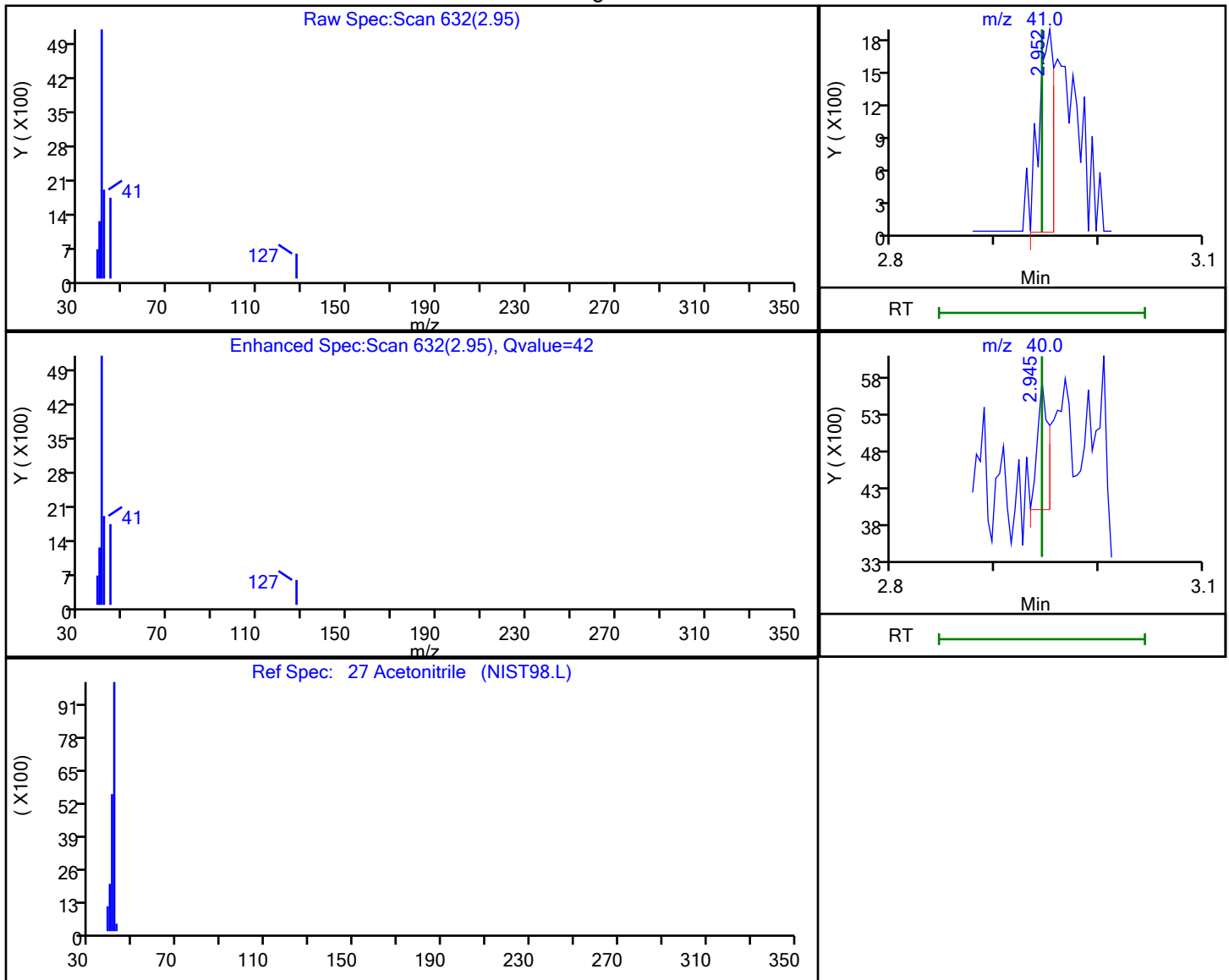
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

27 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
2.95	41.00	1809	1.660756
2.94	40.00	1238	

Reviewer: J6NB, 03-Aug-2023 23:12:16 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621894/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6849.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 18:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621894</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621894/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6849.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 18:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621894</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-621894/9
Matrix: Water Lab File ID: R_6849.D
Analysis Method: 8260D Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2023 18:03
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621894 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	105		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6849.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Aug-2023 18:03:30 ALS Bottle#: 4 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 11:30:42 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

First Level Reviewer: J6NB

Date: 05-Aug-2023 11:32:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.811	0.000	98	1684740	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	89	417092	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.538	9.538	0.000	98	629736	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	466184	50.0	52.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	598376	50.0	56.5	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1801870	50.0	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	627361	50.0	51.5	
\$ 8 BFB	95	8.414	8.414	0.000	83	627361		NR	
9 Dichlorodifluoromethane	85		1.550					ND	
10 Chloromethane	50		1.715					ND	
11 Vinyl chloride	62		1.805					ND	
13 Bromomethane	94		2.067					ND	
12 Ethylene oxide	43		2.075					ND	U
14 Chloroethane	64		2.154					ND	
15 Dichlorofluoromethane	67		2.311					ND	
16 Trichlorofluoromethane	101		2.345					ND	
17 Ethanol	45		2.457					ND	
18 Ethyl ether	59		2.547					ND	
19 Propene oxide	58		2.630					ND	
20 Acrolein	56		2.649					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.724					ND	
22 1,1-Dichloroethene	96		2.724					ND	
23 Acetone	43		2.746					ND	7
24 Isopropyl alcohol	45		2.836					ND	U
25 Iodomethane	142		2.840					ND	
26 Carbon disulfide	76		2.900					ND	7
27 Acetonitrile	41	2.956	2.945	0.011	72	7529		7.50	
28 Methyl acetate	43		2.963					ND	
29 3-Chloro-1-propene	41		2.982					ND	
30 Methylene Chloride	84	3.076	3.076	0.000	96	3017		0.3429	
31 2-Methyl-2-propanol	59		3.121					ND	
32 Acrylonitrile	53		3.230					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		3.252					ND	
34 trans-1,2-Dichloroethene	96		3.267					ND	
35 Hexane	57		3.454					ND	
36 Chlorotrifluoroethene	116		3.531					ND	
37 Vinyl acetate	43		3.556					ND	
39 1,1-Dichloroethane	63		3.574					ND	
38 Isopropyl ether	87		3.578					ND	
40 2-Chloro-1,3-butadiene	53		3.627					ND	
41 Tert-butyl ethyl ether	59		3.829					ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		3.951					ND	
43 2-Butanone (MEK)	43		3.953					ND	
44 Ethyl acetate	43		3.968					ND	
45 cis-1,2-Dichloroethene	96		3.972					ND	
46 2,2-Dichloropropane	77		3.983					ND	
47 Propionitrile	54		3.998					ND	
48 sec-Butyl Alcohol	45		4.062					ND	
49 Methacrylonitrile	41		4.107					ND	
50 Chlorobromomethane	128		4.144					ND	
51 Tetrahydrofuran	42		4.155					ND	
52 Chloroform	83		4.204					ND	
53 1,1,1-Trichloroethane	97		4.339					ND	
54 Cyclohexane	56		4.399					ND	
55 1,1-Dichloropropene	75		4.452					ND	
56 Carbon tetrachloride	117		4.459					ND	
57 Isobutyl alcohol	41		4.474					ND	
58 Benzene	78		4.602					ND	
59 1,2-Dichloroethane	62		4.632					ND	7
61 Tert-amyl methyl ether	73		4.673					ND	
60 1,2-Dichloro-1,1,2-trifluoroethane	117		4.678					ND	
62 1,1,1-Trifluoro-2,2-dichloroethane	83		4.706					ND	
63 n-Heptane	43		4.789					ND	
64 n-Butanol	56		4.969					ND	
65 Trichloroethene	95		5.085					ND	
66 2-Pentanone	43		5.190					ND	
67 Methylcyclohexane	55		5.273					ND	
68 1,2-Dichloropropane	63		5.288					ND	
69 Methyl methacrylate	100		5.299					ND	
70 1,4-Dioxane	88		5.333					ND	
71 Dibromomethane	93		5.359					ND	
72 Dichlorobromomethane	83		5.483					ND	
73 2-Nitropropane	41		5.647					ND	
74 2-Chloroethyl vinyl ether	63		5.689					ND	
75 cis-1,3-Dichloropropene	75		5.827					ND	
76 4-Methyl-2-pentanone (MIBK)	43		5.929					ND	
77 Toluene	91		6.112					ND	
78 trans-1,3-Dichloropropene	75		6.292					ND	
79 Ethyl methacrylate	69		6.315					ND	
80 1,1,2-Trichloroethane	97		6.465					ND	
81 Tetrachloroethene	164		6.551					ND	
82 1,3-Dichloropropane	76		6.607					ND	
83 2-Hexanone	43		6.630					ND	
84 Chlorodibromomethane	129		6.798					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Tetrahydrothiophene	60		6.847					ND	
86 Ethylene Dibromide	107		6.914					ND	
87 1-Chlorohexane	91		7.308					ND	U
88 Chlorobenzene	112		7.346					ND	
89 1,1,1,2-Tetrachloroethane	131		7.421					ND	
90 Ethylbenzene	106		7.424					ND	
91 m-Xylene & p-Xylene	106		7.541					ND	
92 o-Xylene	106		7.900					ND	
93 Styrene	104		7.915					ND	
94 Bromoform	173		8.095					ND	
95 Isopropylbenzene	105		8.242					ND	
96 cis-1,4-Dichloro-2-butene	53		8.294					ND	
97 Cyclohexanone	55		8.335					ND	U
98 1,1,2,2-Tetrachloroethane	83		8.530					ND	
99 Bromobenzene	156		8.556					ND	
100 trans-1,4-Dichloro-2-butene	53		8.571					ND	
101 1,2,3-Trichloropropane	110		8.594					ND	
102 N-Propylbenzene	120		8.639					ND	
103 2-Chlorotoluene	126		8.733					ND	
104 1,3,5-Trimethylbenzene	105		8.811					ND	
105 4-Chlorotoluene	126		8.849					ND	
106 tert-Butylbenzene	119		9.119					ND	
107 1,2,4-Trimethylbenzene	105		9.179					ND	
108 sec-Butylbenzene	134		9.336					ND	
109 Pentachloroethane	167		9.392					ND	
110 1,3-Dichlorobenzene	146		9.464					ND	
111 4-Isopropyltoluene	119		9.490					ND	
112 1,4-Dichlorobenzene	146		9.565					ND	
113 1,2,3-Trimethylbenzene	105		9.583					ND	
114 n-Butylbenzene	91		9.895					ND	
115 1,2-Dichlorobenzene	146		9.917					ND	
116 1,2-Dibromo-3-Chloropropane	157		10.701					ND	
117 1,3,5-Trichlorobenzene	180		10.888					ND	
118 1,2,4-Trichlorobenzene	180		11.522					ND	
119 Hexachlorobutadiene	225		11.664					ND	
120 Naphthalene	128		11.788					ND	
121 1,2,3-Trichlorobenzene	180		12.009					ND	
136 2,2-Dimethylpentane	1		0.000					ND	
128 3-Methylhexane	1		0.000					ND	
135 2,3-Dimethylpentane	1		0.000					ND	
123 3-Ethylpentane	1		0.000					ND	
133 3,3-Dimethylpentane	1		0.000					ND	
125 Ethylene oxide TIC	1		0.000					ND	
124 n-Nonyl Aldehyde	1		0.000					ND	
132 2,4-Dimethylpentane	1		0.000					ND	
130 2,2,3-Trimethylbutane	1		0.000					ND	
131 Pentachloroethane TIC	1		0.000					ND	
129 Ethyl acrylate	55		0.000					ND	
126 cis-1,4-Dichloro-2-butene TIC	1		0.000					ND	
122 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
134 2-Methylhexane	1		0.000					ND	
127 t-Amyl alcohol	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
137 Dimethyl disulfide	1		0.000					ND	
138 Propene oxide TIC	58		5.334					ND	
S 144 TAH	1				0			0	
S 143 1,3-Dichloropropene, Total	1		0.000				ND		7
S 142 Trihalomethanes, Total	1		0.000				ND		7
S 141 Xylenes, Total	106		0.000				ND		7
S 140 1,2-Dichloroethene, Total	1		0.000				ND		7
S 139 Total BTEX	1		0.000				ND		7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 11:32:19

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6849.D

Injection Date: 04-Aug-2023 18:03:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

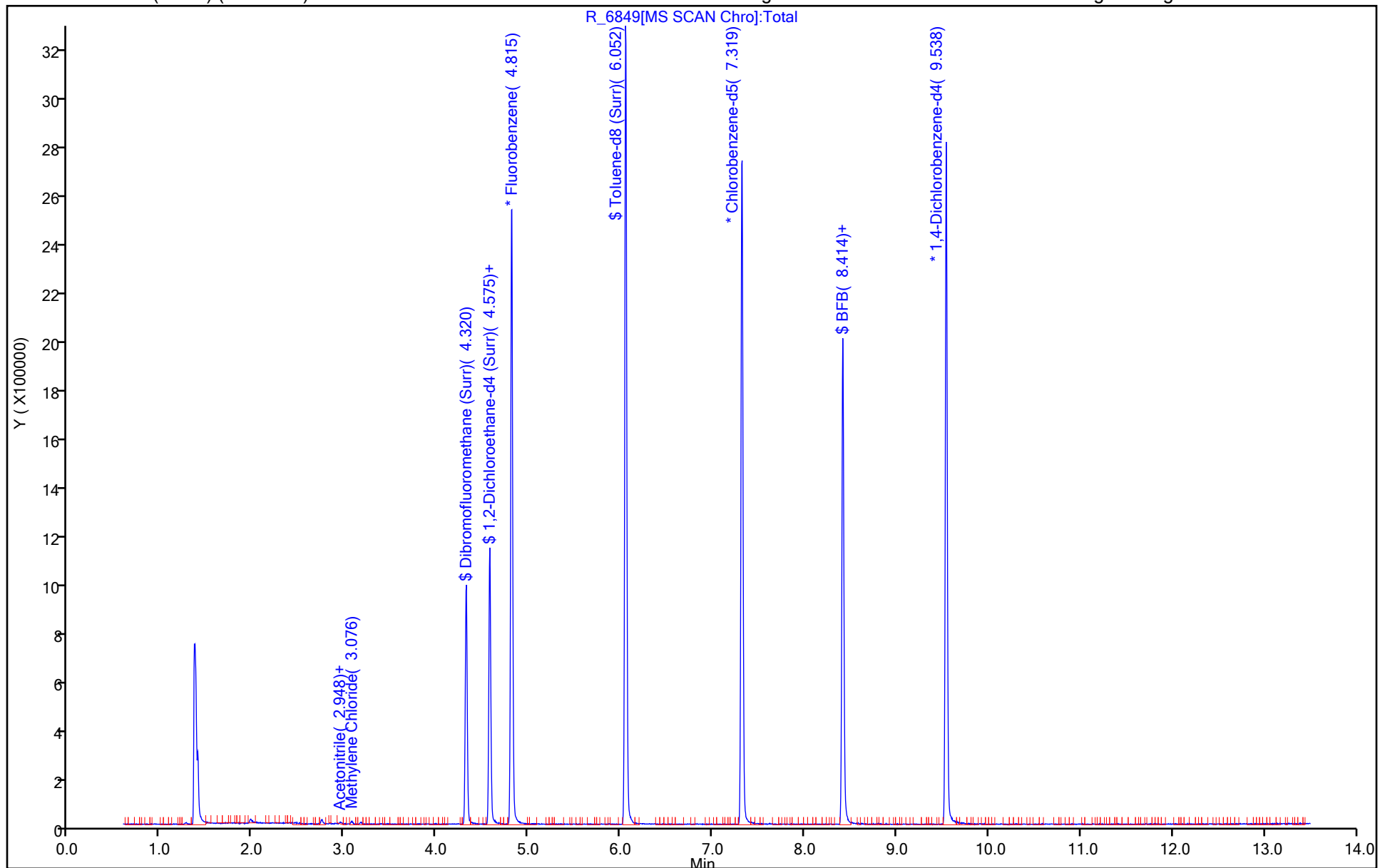
ALS Bottle#: 4

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6849.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Aug-2023 18:03:30 ALS Bottle#: 4 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 11:30:42 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

First Level Reviewer: J6NB

Date: 05-Aug-2023 11:32:19

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	52.7	105.32
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	56.5	113.09
\$ 6 Toluene-d8 (Surr)	50.0	50.2	100.31
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.5	102.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621922/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS1_2881.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 20:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621922</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	ND		1.0	0.58
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.27
75-34-3	1,1-Dichloroethane	ND		1.0	0.22
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
563-58-6	1,1-Dichloropropene	ND		1.0	0.42
96-18-4	1,2,3-Trichloropropane	ND		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	1.8
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.37
107-06-2	1,2-Dichloroethane	ND		1.0	0.54
78-87-5	1,2-Dichloropropane	ND		1.0	0.52
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.33
142-28-9	1,3-Dichloropropane	ND		1.0	0.38
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.39
594-20-7	2,2-Dichloropropane	ND		1.0	0.38
591-78-6	2-Hexanone	ND		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98
67-64-1	Acetone	ND		15	6.6
71-43-2	Benzene	ND		1.0	0.31
75-25-2	Bromoform	ND		2.0	1.2
74-83-9	Bromomethane	ND		5.0	2.4
75-15-0	Carbon disulfide	ND		2.0	0.63
56-23-5	Carbon tetrachloride	ND		1.0	0.57
108-90-7	Chlorobenzene	ND		1.0	0.42
74-97-5	Chlorobromomethane	ND		1.0	0.40
124-48-1	Chlorodibromomethane	ND		2.0	0.62
75-00-3	Chloroethane	ND		4.0	1.4
67-66-3	Chloroform	ND		1.0	0.36
74-87-3	Chloromethane	ND		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.63
74-95-3	Dibromomethane	ND		1.0	0.34
75-27-4	Dichlorobromomethane	ND		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 280-621922/9</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS1_2881.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 20:04</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621922</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		3.0	0.96
100-41-4	Ethylbenzene	ND		1.0	0.30
74-88-4	Iodomethane	ND		5.0	2.6
78-83-1	Isobutyl alcohol	ND		110	37
75-09-2	Methylene Chloride	ND		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.36
95-47-6	o-Xylene	ND		1.0	0.33
100-42-5	Styrene	ND		1.0	0.36
127-18-4	Tetrachloroethene	ND		1.0	0.40
108-88-3	Toluene	ND		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.65
79-01-6	Trichloroethene	ND		1.0	0.30
75-69-4	Trichlorofluoromethane	ND		2.0	0.57
108-05-4	Vinyl acetate	ND		3.0	0.94
75-01-4	Vinyl chloride	ND		2.0	0.51
1330-20-7	Xylenes, Total	ND		1.0	0.33
78-93-3	2-Butanone (MEK)	ND		15	6.0
107-02-8	Acrolein	ND		20	4.9
107-13-1	Acrylonitrile	ND		20	4.5
106-93-4	1,2-Dibromoethane	ND		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.58
107-05-1	Allyl chloride	ND		2.0	0.17
126-99-8	Chloroprene	ND		3.0	1.2
75-05-8	Acetonitrile	ND		30	9.6
97-63-2	Ethyl methacrylate	ND		3.0	0.86
126-98-7	Methacrylonitrile	ND		15	5.3
80-62-6	Methyl methacrylate	ND		4.0	1.1
107-12-0	Propionitrile	ND		20	3.7
110-57-6	trans-1,4-Dichloro-2-butene	ND		3.0	1.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 280-621922/9
Matrix: Water Lab File ID: MS1_2881.D
Analysis Method: 8260D Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2023 20:04
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
% Moisture: _____ % Solids: _____ Level: (low/med) Low
Analysis Batch No.: 621922 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-127
460-00-4	4-Bromofluorobenzene (Surr)	104		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2881.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Aug-2023 20:04:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Operator ID: wickham Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 00:10:31 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1601

First Level Reviewer: V8PV

Date: 04-Aug-2023 21:08:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1373307	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	341877	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.059	-0.014	97	529161	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	92	344112	50.0	50.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.752	0.014	0	444381	50.0	51.9	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1423537	50.0	50.6	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	83	548848	50.0	52.1	
\$ 8 BFB	95		9.900					ND	
9 Dichlorodifluoromethane	85		1.814					ND	
10 Chloromethane	50		2.023					ND	
11 Vinyl chloride	62		2.149					ND	
12 Ethylene oxide	43		2.260					ND	7
13 Bromomethane	94		2.470					ND	7
14 Chloroethane	64		2.610					ND	
15 Dichlorofluoromethane	67		2.847					ND	
16 Trichlorofluoromethane	101		2.889					ND	
17 Ethanol	45		3.084					ND	
18 Ethyl ether	59		3.168					ND	
19 Propene oxide	58		3.238					ND	
20 Acrolein	56		3.322					ND	
22 1,1-Dichloroethene	96		3.406					ND	
21 1,1,2-Trichloro-1,2,2-trifluoro	151		3.420					ND	
23 Acetone	43		3.462					ND	7
24 Iodomethane	142		3.559					ND	
25 Isopropyl alcohol	45		3.587					ND	
26 Carbon disulfide	76		3.629					ND	7
27 Acetonitrile	41		3.727					ND	U
28 Methyl acetate	43		3.755					ND	
29 3-Chloro-1-propene	41		3.769					ND	7
30 Methylene Chloride	84		3.895					ND	7
31 2-Methyl-2-propanol	59		3.978					ND	
32 Acrylonitrile	53		4.104					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73		4.132					ND	
34 trans-1,2-Dichloroethene	96		4.132					ND	
35 Chlorotrifluoroethene	116		4.248					ND	
36 Hexane	57		4.383					ND	U
37 1,2-Dichloro-1,1,2,2-tetrafluoro	85		4.472					ND	
38 Vinyl acetate	43		4.523					ND	
39 1,1-Dichloroethane	63		4.537					ND	
40 Isopropyl ether	87		4.551					ND	
41 2-Chloro-1,3-butadiene	53		4.593					ND	
42 2-Chloro-1,1,1-Trifluoroethane	118		4.737					ND	
43 Tert-butyl ethyl ether	59		4.872					ND	
44 2-Butanone (MEK)	43		5.012					ND	
46 2,2-Dichloropropane	77		5.040					ND	
45 cis-1,2-Dichloroethene	96		5.040					ND	
47 Ethyl acetate	43		5.040					ND	7
48 Propionitrile	54		5.082					ND	
49 sec-Butyl Alcohol	45		5.165					ND	
50 Methacrylonitrile	41		5.207					ND	
52 Tetrahydrofuran	42		5.249					ND	
51 Chlorobromomethane	128		5.249					ND	
53 Chloroform	83		5.319					ND	
54 1,1,1-Trichloroethane	97		5.473					ND	
55 1,2-Dichloro-1,1,2-trifluoroetha	117		5.505					ND	
56 1,1,1-Trifluoro-2,2-dichloroetha	83		5.533					ND	
57 Cyclohexane	56		5.543					ND	
58 1,1-Dichloropropene	75		5.612					ND	
59 Carbon tetrachloride	117		5.612					ND	
60 Isobutyl alcohol	41		5.668					ND	
61 Benzene	78		5.780					ND	
62 1,2-Dichloroethane	62		5.822					ND	
63 Tert-amyl methyl ether	73		5.878					ND	
64 n-Heptane	43		6.003					ND	U
65 n-Butanol	56		6.227					ND	
66 Trichloroethene	95		6.353					ND	
67 2-Pentanone	43		6.478					ND	
68 Methylcyclohexane	55		6.548					ND	
69 1,2-Dichloropropane	63		6.576					ND	
70 Methyl methacrylate	100		6.590					ND	
71 1,4-Dioxane	88		6.632					ND	
72 Dibromomethane	93		6.660					ND	
73 Dichlorobromomethane	83		6.800					ND	
74 2-Nitropropane	41		6.981					ND	
75 2-Chloroethyl vinyl ether	63		7.023					ND	
76 cis-1,3-Dichloropropene	75		7.177					ND	
77 2,2-Dimethylpentane	57		7.278					ND	
78 2,4-Dimethylpentane	43		7.292					ND	
79 4-Methyl-2-pentanone (MIBK)	43		7.302					ND	
80 Toluene	91		7.484					ND	
81 2,2,3-Trimethylbutane	57		7.502					ND	
82 trans-1,3-Dichloropropene	75		7.679					ND	
83 3,3-Dimethylpentane	43		7.682					ND	
84 Ethyl methacrylate	69		7.707					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 2-Methylhexane	43		7.810					ND	
86 1,1,2-Trichloroethane	97		7.861					ND	
87 3-Methylhexane	43		7.903					ND	
88 2,3-Dimethylpentane	56		7.949					ND	
89 Tetrachloroethene	164		7.959					ND	
90 1,3-Dichloropropane	76		8.015					ND	
91 2-Hexanone	43		8.043					ND	
92 3-Ethylpentane	43		8.214					ND	
93 Chlorodibromomethane	129		8.224					ND	
94 Tetrahydrothiophene	60		8.224					ND	
95 Ethylene Dibromide	107		8.350					ND	
96 1-Chlorohexane	91		8.755					ND	7
97 Chlorobenzene	112		8.797					ND	
98 Ethylbenzene	106		8.880					ND	
99 1,1,1,2-Tetrachloroethane	131		8.880					ND	
100 m-Xylene & p-Xylene	106		9.006					ND	
101 o-Xylene	106		9.369					ND	
103 Styrene	104		9.383					ND	
102 Dimethyl disulfide	94		9.388					ND	
104 Bromoform	173		9.579					ND	
105 Isopropylbenzene	105		9.718					ND	
106 cis-1,4-Dichloro-2-butene	53		9.774					ND	
107 Cyclohexanone	55		9.830					ND	U
108 1,1,2,2-Tetrachloroethane	83		10.026					ND	
109 Bromobenzene	156		10.054					ND	
110 trans-1,4-Dichloro-2-butene	53		10.054					ND	
111 1,2,3-Trichloropropane	110		10.082					ND	
112 N-Propylbenzene	120		10.137					ND	
113 2-Chlorotoluene	126		10.235					ND	
114 1,3,5-Trimethylbenzene	105		10.305					ND	
115 4-Chlorotoluene	126		10.347					ND	
116 tert-Butylbenzene	119		10.626					ND	
117 1,2,4-Trimethylbenzene	105		10.682					ND	
118 sec-Butylbenzene	134		10.850					ND	
119 1,3-Dichlorobenzene	146		10.975					ND	7
120 4-Isopropyltoluene	119		10.989					ND	
121 1,4-Dichlorobenzene	146		11.073					ND	7
122 1,2,3-Trimethylbenzene	105		11.101					ND	
123 Pentachloroethane	167		11.283					ND	
124 n-Butylbenzene	91		11.408					ND	
125 1,2-Dichlorobenzene	146		11.436					ND	
126 1,2-Dibromo-3-Chloropropane	157		12.232					ND	
127 1,3,5-Trichlorobenzene	180		12.414					ND	
128 1,2,4-Trichlorobenzene	180		13.056					ND	
129 Hexachlorobutadiene	225		13.196					ND	
130 Naphthalene	128		13.336					ND	
131 n-Nonyl Aldehyde	57		13.340					ND	
132 1,2,3-Trichlorobenzene	180		13.559					ND	
133 1,2-dichloro-4-(trifluoromethyl)	1		0.000					ND	
142 Ethyl acrylate	55		0.000					ND	
145 4-Chlorobenzotrifluoride	1		0.000					ND	
141 Benzene, 1-bromo-4-ethyl-	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
136 4-Bromofluorobenzene	95		0.000					ND	
138 Pentachloroethane TIC	1		0.000					ND	
139 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
134 1,3-Dibromobenzene	1		0.000					ND	
140 n-Nonane TIC	1		0.000					ND	
135 t-Amyl alcohol	1		0.000					ND	
143 1,4-Dibromobenzene	1		0.000					ND	
144 1-Bromo-2-chloroethane	1		0.000					ND	
137 1-Chlorohexane TIC	1		0.000					ND	
146 Benzene, 1-bromo-3-fluoro-	1		0.000					ND	
S 147 1,2-Dichloroethene, Total (URS)	95		2.000					ND	7
S 154 1,3-Dichloropropene, Total	1		0.000					ND	7
S 153 1,2-Dichloroethene, Total	1		0.000					ND	7
S 152 Trihalomethanes, Total	1		0.000					ND	7
S 151 Total BTEX	1		0.000					ND	7
S 150 Xylenes, Total (URS)	1		0.000					ND	7
S 149 TAH	1				0			0	
S 148 Xylenes, Total	106		0.000					ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 00:10:32

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2881.D

Injection Date: 04-Aug-2023 20:04:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: MB

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

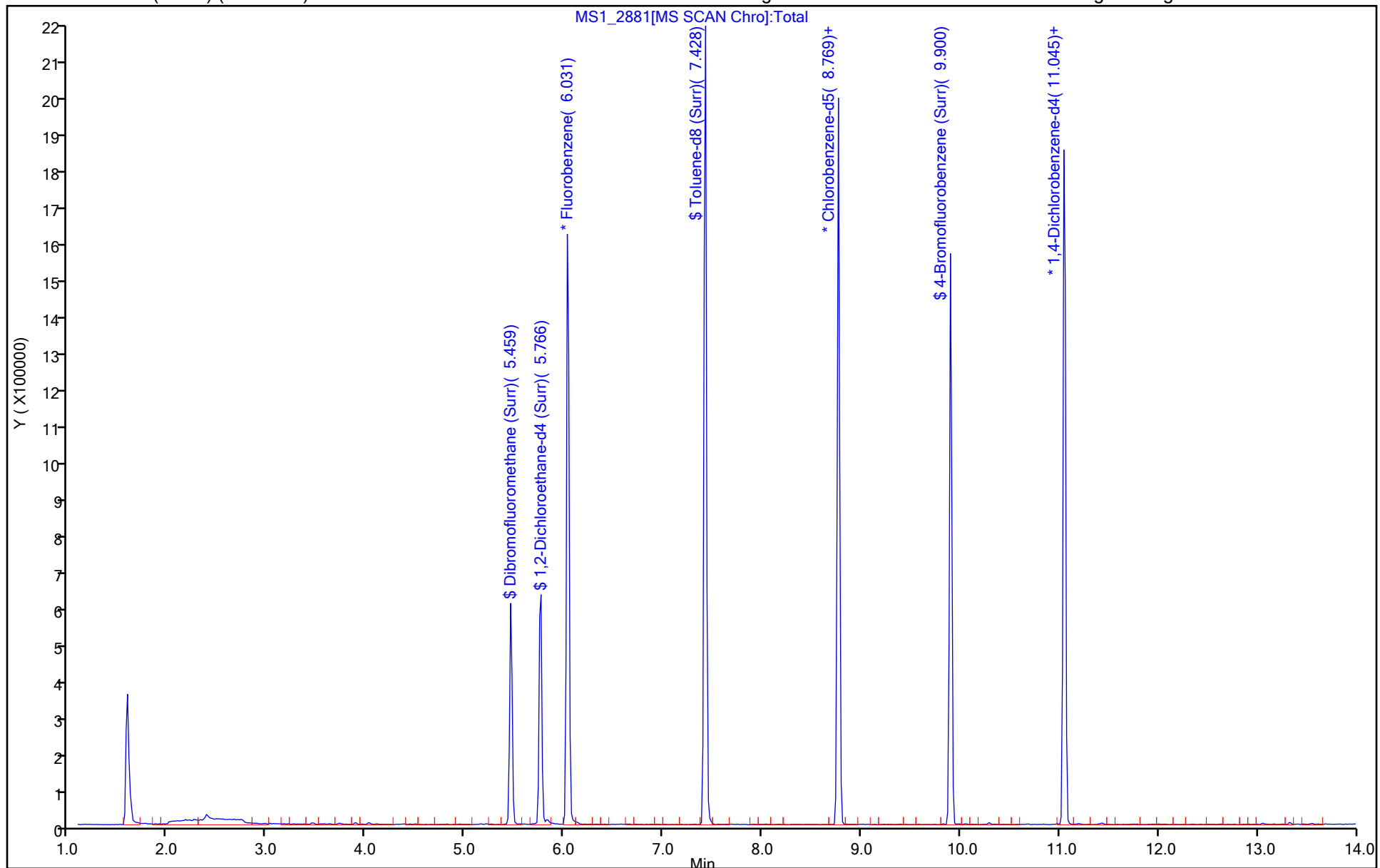
ALS Bottle#: 6

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\VMS1_2881.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Aug-2023 20:04:30 ALS Bottle#: 6 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 00:10:31 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1601

First Level Reviewer: V8PV

Date: 04-Aug-2023 21:08:06

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.7	101.30
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.9	103.82
\$ 6 Toluene-d8 (Surr)	50.0	50.6	101.23
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.1	104.14

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2881.D

Injection Date: 04-Aug-2023 20:04:30

Instrument ID: VMS_MS1

Lims ID: MB

Client ID:

Operator ID: wickhamt

ALS Bottle#:

6

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: AQ_VMS1_8260

Limit Group:

MSV - 8260B Water and Solid

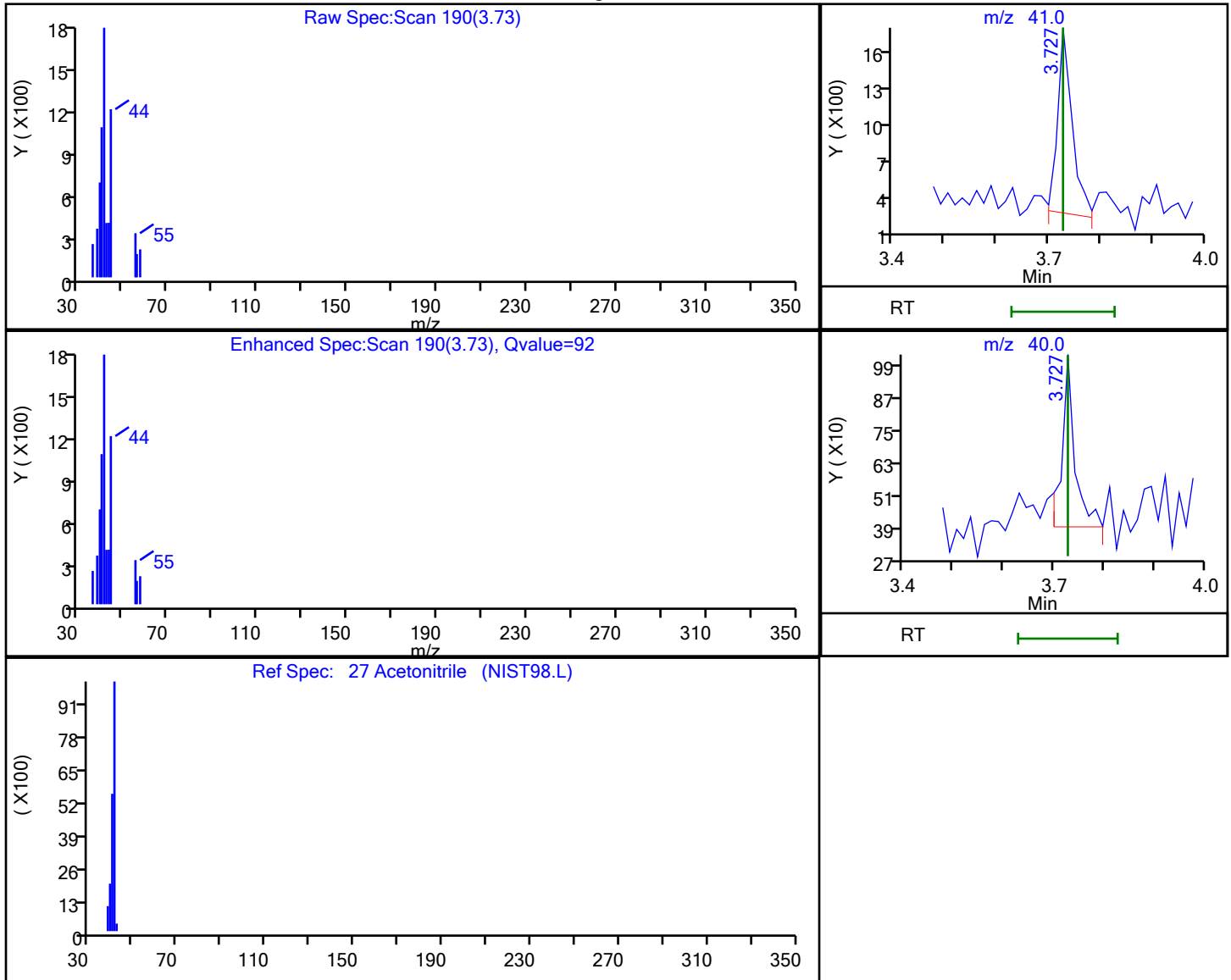
Column: DB-624 (60.25) (0.25 mm)

Detector

MS SCAN

27 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
3.73	41.00	2737	2.489158
3.73	40.00	1130	

Reviewer: V8PV, 04-Aug-2023 21:08:02 -06:00:00 (UTC)

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621653/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000550A.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 06:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	46.5		1.0	0.58
71-55-6	1,1,1-Trichloroethane	47.3		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	48.5		1.0	0.21
79-00-5	1,1,2-Trichloroethane	46.2		1.0	0.27
75-34-3	1,1-Dichloroethane	50.3		1.0	0.22
75-35-4	1,1-Dichloroethene	46.0		1.0	0.23
563-58-6	1,1-Dichloropropene	47.4		1.0	0.42
96-18-4	1,2,3-Trichloropropane	45.5		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	41.2		5.0	1.8
95-50-1	1,2-Dichlorobenzene	46.4		1.0	0.37
107-06-2	1,2-Dichloroethane	51.1		1.0	0.54
78-87-5	1,2-Dichloropropane	49.4		1.0	0.52
541-73-1	1,3-Dichlorobenzene	45.4		1.0	0.33
142-28-9	1,3-Dichloropropane	50.7		1.0	0.38
106-46-7	1,4-Dichlorobenzene	45.5		1.0	0.39
594-20-7	2,2-Dichloropropane	48.4		1.0	0.38
591-78-6	2-Hexanone	211		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	210		5.0	0.98
67-64-1	Acetone	211		15	6.6
71-43-2	Benzene	49.0		1.0	0.31
75-25-2	Bromoform	42.0		2.0	1.2
74-83-9	Bromomethane	45.7		5.0	2.4
75-15-0	Carbon disulfide	49.8		2.0	0.63
56-23-5	Carbon tetrachloride	45.3		1.0	0.57
108-90-7	Chlorobenzene	47.7		1.0	0.42
74-97-5	Chlorobromomethane	45.2		1.0	0.40
124-48-1	Chlorodibromomethane	46.9		2.0	0.62
75-00-3	Chloroethane	48.5		4.0	1.4
67-66-3	Chloroform	47.3		1.0	0.36
74-87-3	Chloromethane	47.9		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	45.5		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	51.3		2.0	0.63
74-95-3	Dibromomethane	45.9		1.0	0.34
75-27-4	Dichlorobromomethane	48.8		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621653/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000550A.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 06:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	62.8		3.0	0.96
100-41-4	Ethylbenzene	47.8		1.0	0.30
74-88-4	Iodomethane	45.2		5.0	2.6
78-83-1	Isobutyl alcohol	1200		110	37
75-09-2	Methylene Chloride	45.8		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	49.9		2.0	0.36
95-47-6	o-Xylene	47.3		1.0	0.33
100-42-5	Styrene	50.4		1.0	0.36
127-18-4	Tetrachloroethene	45.9		1.0	0.40
108-88-3	Toluene	46.5		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	46.0		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	47.8		2.0	0.65
79-01-6	Trichloroethene	44.2		1.0	0.30
75-69-4	Trichlorofluoromethane	53.5		2.0	0.57
108-05-4	Vinyl acetate	113		3.0	0.94
75-01-4	Vinyl chloride	51.5		2.0	0.51
1330-20-7	Xylenes, Total	97.2		1.0	0.33
78-93-3	2-Butanone (MEK)	203		15	6.0
107-02-8	Acrolein	476		20	4.9
107-13-1	Acrylonitrile	485		20	4.5
106-93-4	1,2-Dibromoethane	47.6		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	45.0		1.0	0.58
107-05-1	Allyl chloride	51.6		2.0	0.17
97-63-2	Ethyl methacrylate	48.8		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	48.6		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000550A.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Aug-2023 06:47:30 ALS Bottle#: 2 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD M
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 12:16:01 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 10:28:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.082	5.082	0.000	98	1677125	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	89	440686	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	98	781299	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	92	464073	50.0	49.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.830	4.830	0.000	0	643832	50.0	53.3	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1816203	50.0	51.1	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.643	8.643	0.000	90	708142	50.0	52.7	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	461442	50.0	62.8	
10 Chloromethane	50	1.883	1.883	0.000	99	583318	50.0	47.9	
11 Vinyl chloride	62	1.981	1.981	0.000	98	566571	50.0	51.5	
12 Bromomethane	94	2.246	2.246	0.000	93	240492	50.0	45.7	
13 Chloroethane	64	2.344	2.344	0.000	99	375529	50.0	48.5	
14 Dichlorofluoromethane	67	2.526	2.526	0.000	98	996042	50.0	50.7	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	98	668861	50.0	53.5	
17 Ethyl ether	59	2.763	2.763	0.000	96	377682	50.0	49.0	
18 Acrolein	56	2.875	2.875	0.000	99	620453	493.8	476.4	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	67	260877	50.0	52.1	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	94	331905	50.0	46.0	
21 Acetone	43	2.973	2.973	0.000	98	624061	200.0	210.7	
23 Iodomethane	142	3.084	3.084	0.000	100	404299	50.0	45.2	
24 Carbon disulfide	76	3.140	3.140	0.000	100	1181965	50.0	49.8	
26 Methyl acetate	43	3.196	3.196	0.000	99	733281	100.0	97.7	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	88	777623	50.0	51.6	
28 Methylene Chloride	84	3.308	3.308	0.000	98	426006	50.0	45.8	
29 2-Methyl-2-propanol	59	3.364	3.364	0.000	98	421011	500.0	398.0	
30 Acrylonitrile	53	3.476	3.476	0.000	98	1835526	500.0	484.7	
31 Methyl tert-butyl ether	73	3.489	3.489	0.000	98	1308039	50.0	48.6	
32 trans-1,2-Dichloroethene	96	3.517	3.517	0.000	95	389632	50.0	46.0	
33 Hexane	57	3.699	3.699	0.000	96	565612	50.0	67.0	
34 Vinyl acetate	43	3.797	3.797	0.000	98	2190985	100.0	112.9	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	97	804669	50.0	50.3	
39 2-Butanone (MEK)	43	4.202	4.202	0.000	99	1012174	200.0	202.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	86	444117	50.0	45.5	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	92	652546	50.0	48.4	
44 sec-Butyl Alcohol	45	4.313	4.313	0.000	99	941628	1200.0	1060.8	
46 Chlorobromomethane	128	4.411	4.411	0.000	97	210864	50.0	45.2	
47 Tetrahydrofuran	42	4.411	4.411	0.000	91	318143	100.0	102.1	
48 Chloroform	83	4.467	4.467	0.000	95	734091	50.0	47.3	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	98	615162	50.0	47.3	
50 Cyclohexane	56	4.663	4.663	0.000	96	754733	50.0	59.1	
51 1,1-Dichloropropene	75	4.719	4.719	0.000	94	579231	50.0	47.4	
52 Carbon tetrachloride	117	4.719	4.719	0.000	95	471121	50.0	45.3	
53 Isobutyl alcohol	43	4.732	4.732	0.000	96	598745	1250.0	1203.6	
54 Benzene	78	4.872	4.872	0.000	98	1678558	50.0	49.0	
55 1,2-Dichloroethane	62	4.886	4.886	0.000	97	691963	50.0	51.1	
57 n-Heptane	43	5.040	5.040	0.000	98	545233	50.0	68.8	
59 Trichloroethene	130	5.347	5.347	0.000	97	413768	50.0	44.2	
60 2-Pentanone	43	5.445	5.445	0.000	98	1222629	160.0	167.1	
61 Methylcyclohexane	55	5.543	5.543	0.000	95	532156	50.0	59.5	
62 1,2-Dichloropropane	63	5.543	5.543	0.000	91	485478	50.0	49.4	
64 1,4-Dioxane	88	5.598	5.598	0.000	98	125443	1000.0	835.8	
65 Dibromomethane	93	5.626	5.626	0.000	94	275782	50.0	45.9	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	556744	50.0	48.8	
68 2-Chloroethyl vinyl ether	63	5.934	5.934	0.000	92	318792	50.0	49.3	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	91	693657	50.0	51.3	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	99	1974402	200.0	210.2	
71 Toluene	91	6.367	6.367	0.000	97	1744903	50.0	46.5	
72 trans-1,3-Dichloropropene	75	6.534	6.534	0.000	99	685880	50.0	47.8	
73 Ethyl methacrylate	69	6.562	6.562	0.000	92	562131	50.0	48.8	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	94	374295	50.0	46.2	
75 Tetrachloroethene	164	6.813	6.813	0.000	97	331824	50.0	45.9	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	97	723211	50.0	50.7	
77 2-Hexanone	43	6.869	6.869	0.000	98	1369377	200.0	211.0	
78 Chlorodibromomethane	129	7.051	7.051	0.000	90	378173	50.0	46.9	
79 Ethylene Dibromide	107	7.163	7.163	0.000	98	384563	50.0	47.6	
80 1-Chlorohexane	91	7.554	7.554	0.000	93	430323	40.0	40.5	
81 Chlorobenzene	112	7.596	7.596	0.000	92	1155162	50.0	47.7	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	91	377660	50.0	46.5	
83 Ethylbenzene	106	7.665	7.665	0.000	99	617609	50.0	47.8	
84 m-Xylene & p-Xylene	91	7.791	7.791	0.000	0	1559756	50.0	49.9	
85 o-Xylene	106	8.140	8.140	0.000	98	749033	50.0	47.3	
86 Styrene	104	8.154	8.154	0.000	93	1325620	50.0	50.4	
87 Bromoform	173	8.336	8.336	0.000	95	241902	50.0	42.0	
88 Isopropylbenzene	105	8.475	8.475	0.000	97	1870930	50.0	49.7	
90 Cyclohexanone	55	8.573	8.573	0.000	96	641410	1500.0	1114.0	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	95	509512	50.0	48.5	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	50	170427	50.0	48.6	
92 Bromobenzene	156	8.797	8.797	0.000	97	515596	50.0	47.9	
94 1,2,3-Trichloropropane	110	8.825	8.825	0.000	89	156610	50.0	45.5	
95 N-Propylbenzene	120	8.866	8.866	0.000	99	518273	50.0	49.2	
96 2-Chlorotoluene	126	8.964	8.964	0.000	95	453740	50.0	47.9	
97 1,3,5-Trimethylbenzene	105	9.034	9.034	0.000	94	1568683	50.0	50.1	
98 4-Chlorotoluene	126	9.090	9.090	0.000	98	481097	50.0	48.0	
99 tert-Butylbenzene	119	9.341	9.341	0.000	94	1288765	50.0	46.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,2,4-Trimethylbenzene	105	9.397	9.397	0.000	98	1625799	50.0	49.7	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	374032	50.0	48.1	
102 1,3-Dichlorobenzene	146	9.690	9.690	0.000	97	921674	50.0	45.4	
103 4-Isopropyltoluene	119	9.704	9.704	0.000	97	1600704	50.0	48.7	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	94	959945	50.0	45.5	
106 n-Butylbenzene	91	10.109	10.109	0.000	98	1433009	50.0	50.7	
107 1,2-Dichlorobenzene	146	10.137	10.137	0.000	96	892105	50.0	46.4	
108 1,2-Dibromo-3-Chloropropane	157	10.906	10.906	0.000	75	96342	50.0	41.2	
110 1,2,4-Trichlorobenzene	180	11.730	11.730	0.000	94	589345	50.0	45.0	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	96	259167	50.0	45.1	
112 Naphthalene	128	11.995	11.995	0.000	98	1444492	50.0	46.5	
113 1,2,3-Trichlorobenzene	180	12.204	12.204	0.000	94	490688	50.0	46.2	
S 122 Xylenes, Total	106				0		100.0	97.2	
S 123 1,2-Dichloroethene, Total	1				0		100.0	91.6	
S 124 1,3-Dichloropropene, Total	1				0		100.0	99.1	
S 125 Trihalomethanes, Total	1				0		200.0	185.0	

QC Flag Legend

Processing Flags

Reagents:

MV-Gas B_00141

Amount Added: 10.00

Units: uL

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000550A.D

Injection Date: 03-Aug-2023 06:47:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

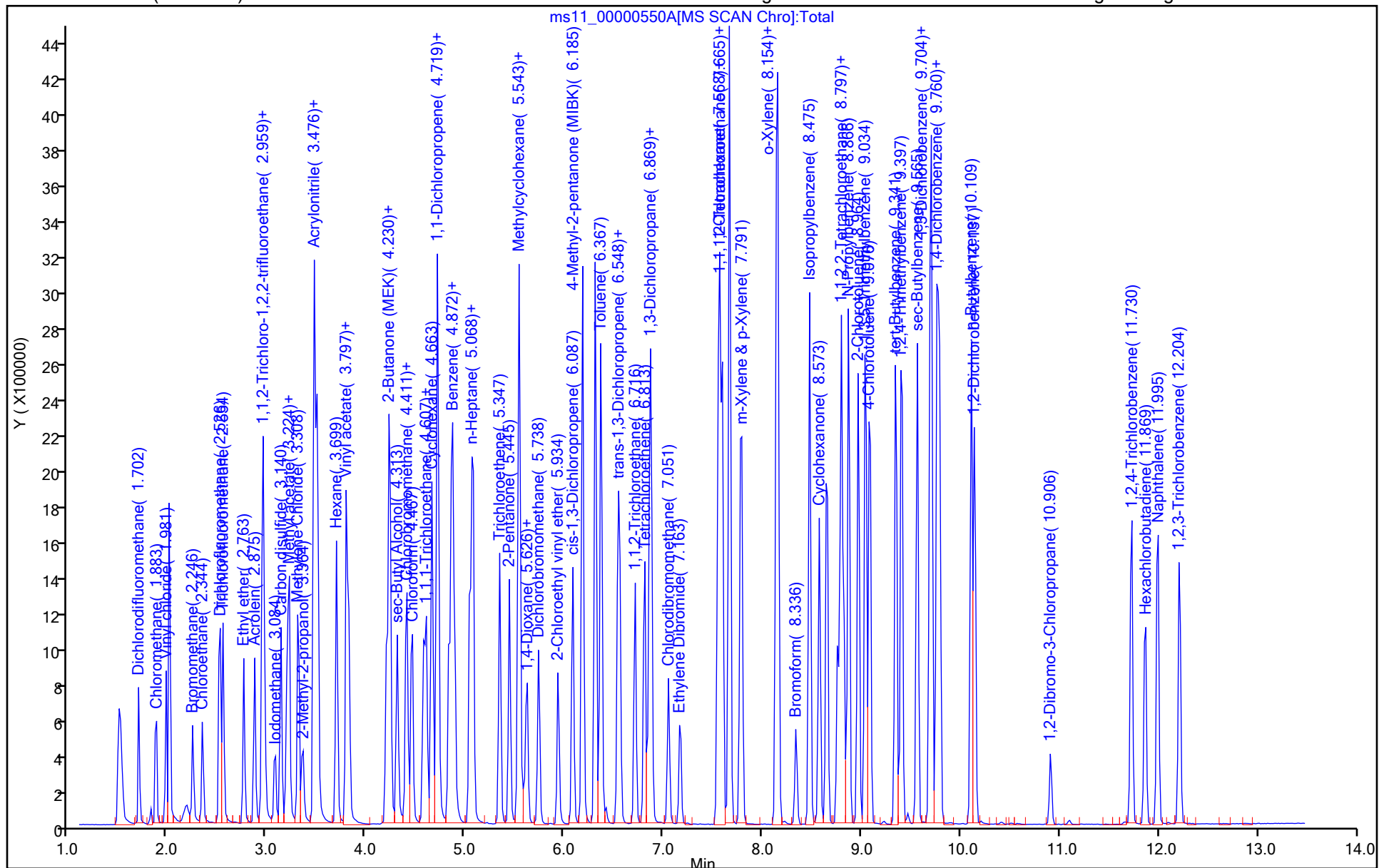
ALS Bottle#: 2

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000550A.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Aug-2023 06:47:30 ALS Bottle#: 2 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD M
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 12:16:01 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 10:28:51

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.5	99.09
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.3	106.65
\$ 6 Toluene-d8 (Surr)	50.0	51.1	102.20
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.7	105.38

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-621653/6
 Matrix: Water Lab File ID: ms11_00000549B.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 06:24
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621653 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	32.0		3.0	1.2
75-05-8	Acetonitrile	356		30	9.6
126-98-7	Methacrylonitrile	352		15	5.3
80-62-6	Methyl methacrylate	52.7		4.0	1.1
107-12-0	Propionitrile	310		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	104		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549B.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Aug-2023 06:24:30 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD S
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 10:29:45 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 10:29:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.068	5.082	-0.014	98	1629452	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	432358	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	96	767610	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.565	4.579	-0.014	93	458094	50.0	50.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.830	4.830	0.000	0	623628	50.0	53.2	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1784120	50.0	51.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.643	8.643	0.000	88	686382	50.0	52.0	
16 Ethanol	45	2.679	2.679	0.000	100	245186	1500.0	2067.1	
22 Isopropyl alcohol	45	3.056	3.056	0.000	98	165254	250.0	300.7	
25 Acetonitrile	41	3.182	3.182	0.000	99	430869	250.0	356.5	
36 Isopropyl ether	87	3.825	3.825	0.000	94	185490	25.0	26.3	
37 2-Chloro-1,3-butadiene	53	3.867	3.867	0.000	94	387707	25.0	32.0	
38 Tert-butyl ethyl ether	59	4.076	4.076	0.000	98	748110	25.0	29.1	
40 Ethyl acetate	43	4.216	4.216	0.000	100	572266	50.0	70.8	
43 Propionitrile	54	4.244	4.244	0.000	99	384756	250.0	309.6	
45 Methacrylonitrile	41	4.355	4.355	0.000	96	1722096	250.0	351.8	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	86	655526	25.0	27.2	
58 n-Butanol	56	5.207	5.207	0.000	94	162620	625.0	619.8	
63 Methyl methacrylate	100	5.542	5.542	0.000	93	118349	50.0	52.7	
67 2-Nitropropane	41	5.892	5.892	0.000	94	75070	50.0	37.0	
89 cis-1,4-Dichloro-2-butene	53	8.517	8.517	0.000	0	156051	50.0	41.3	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	827936	25.0	22.6	
109 1,3,5-Trichlorobenzene	180	11.101	11.101	0.000	97	320856	25.0	24.9	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00063

Amount Added: 25.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 10:30:22

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549B.D

Injection Date: 03-Aug-2023 06:24:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: LCS

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

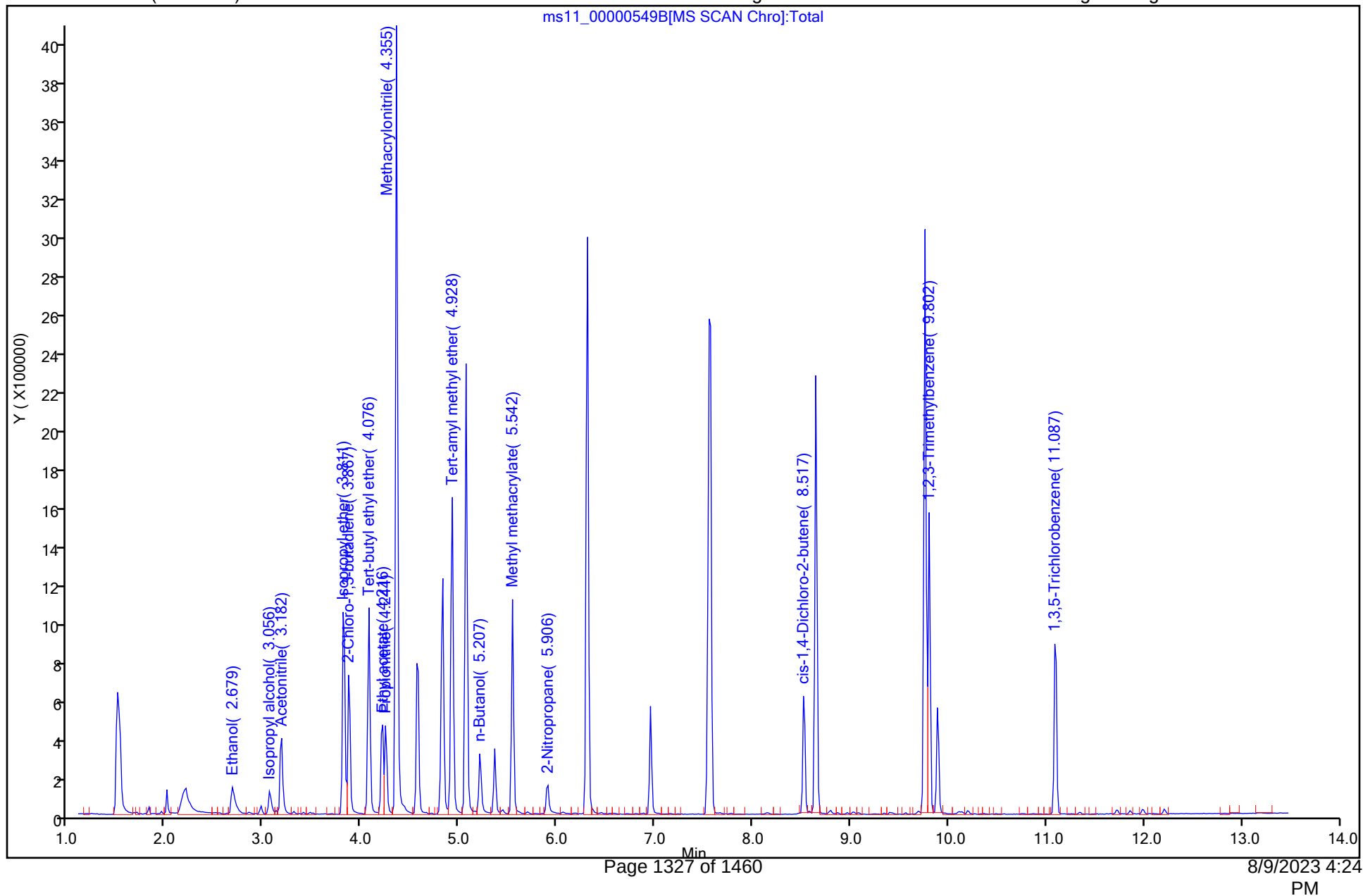
ALS Bottle#: 1

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000549B.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Aug-2023 06:24:30 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD S
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 10:29:45 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 10:29:09

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.3	100.68
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.2	106.33
\$ 6 Toluene-d8 (Surr)	50.0	51.2	102.33
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.0	103.96

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621775/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6787bb.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 16:12</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	52.1		1.0	0.58
71-55-6	1,1,1-Trichloroethane	52.7		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	52.0		1.0	0.21
79-00-5	1,1,2-Trichloroethane	51.9		1.0	0.27
75-34-3	1,1-Dichloroethane	52.0		1.0	0.22
75-35-4	1,1-Dichloroethene	49.5		1.0	0.23
563-58-6	1,1-Dichloropropene	52.8		1.0	0.42
96-18-4	1,2,3-Trichloropropane	51.6		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	48.2		5.0	1.8
95-50-1	1,2-Dichlorobenzene	49.8		1.0	0.37
107-06-2	1,2-Dichloroethane	53.1		1.0	0.54
78-87-5	1,2-Dichloropropane	53.0		1.0	0.52
541-73-1	1,3-Dichlorobenzene	49.1		1.0	0.33
142-28-9	1,3-Dichloropropane	54.7		1.0	0.38
106-46-7	1,4-Dichlorobenzene	47.8		1.0	0.39
594-20-7	2,2-Dichloropropane	46.2		1.0	0.38
591-78-6	2-Hexanone	222		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	214		5.0	0.98
67-64-1	Acetone	210		15	6.6
71-43-2	Benzene	51.6		1.0	0.31
75-25-2	Bromoform	50.6		2.0	1.2
74-83-9	Bromomethane	34.5		5.0	2.4
75-15-0	Carbon disulfide	46.6		2.0	0.63
56-23-5	Carbon tetrachloride	52.6		1.0	0.57
108-90-7	Chlorobenzene	49.5		1.0	0.42
74-97-5	Chlorobromomethane	52.4		1.0	0.40
124-48-1	Chlorodibromomethane	51.2		2.0	0.62
75-00-3	Chloroethane	47.6		4.0	1.4
67-66-3	Chloroform	51.4		1.0	0.36
74-87-3	Chloromethane	48.2		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	50.0		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	52.8		2.0	0.63
74-95-3	Dibromomethane	50.8		1.0	0.34
75-27-4	Dichlorobromomethane	53.0		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621775/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6787bb.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/03/2023 16:12</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	53.5		3.0	0.96
100-41-4	Ethylbenzene	51.6		1.0	0.30
74-88-4	Iodomethane	43.7		5.0	2.6
78-83-1	Isobutyl alcohol	1260		110	37
75-09-2	Methylene Chloride	48.8		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	53.6		2.0	0.36
95-47-6	o-Xylene	53.9		1.0	0.33
100-42-5	Styrene	54.5		1.0	0.36
127-18-4	Tetrachloroethene	50.6		1.0	0.40
108-88-3	Toluene	51.1		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	48.9		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	51.9		2.0	0.65
79-01-6	Trichloroethene	51.7		1.0	0.30
75-69-4	Trichlorofluoromethane	54.0		2.0	0.57
108-05-4	Vinyl acetate	99.0		3.0	0.94
75-01-4	Vinyl chloride	51.4		2.0	0.51
1330-20-7	Xylenes, Total	108		1.0	0.33
78-93-3	2-Butanone (MEK)	228		15	6.0
107-02-8	Acrolein	481		20	4.9
107-13-1	Acrylonitrile	557		20	4.5
106-93-4	1,2-Dibromoethane	53.1		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	47.2		1.0	0.58
107-05-1	Allyl chloride	48.1		2.0	0.17
97-63-2	Ethyl methacrylate	52.7		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	49.7		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787bb.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Aug-2023 16:12:30 ALS Bottle#: 29 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-033
 Operator ID: wickham Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:09:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.815	-0.003	98	1989859	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	89	489881	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	97	788548	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.321	4.320	0.001	92	525529	50.0	50.3	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	663653	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2144910	50.0	50.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	789115	50.0	51.7	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	510258	50.0	53.5	
10 Chloromethane	50	1.715	1.715	0.000	99	728370	50.0	48.2	
11 Vinyl chloride	62	1.801	1.801	0.000	98	624663	50.0	51.4	
13 Bromomethane	94	2.068	2.068	0.000	91	274158	50.0	34.5	
14 Chloroethane	64	2.150	2.150	0.000	99	373052	50.0	47.6	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	916433	50.0	49.6	
16 Trichlorofluoromethane	101	2.341	2.341	0.000	99	719446	50.0	54.0	
18 Ethyl ether	59	2.547	2.547	0.000	97	436098	50.0	52.3	
20 Acrolein	56	2.649	2.649	0.000	99	673128	493.8	480.9	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.724	2.724	0.000	96	283397	50.0	51.4	
22 1,1-Dichloroethene	96	2.724	2.724	0.000	93	380349	50.0	49.5	
23 Acetone	43	2.746	2.746	0.000	99	722012	200.0	210.1	
25 Iodomethane	142	2.840	2.840	0.000	100	468858	50.0	43.7	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1417939	50.0	46.6	
28 Methyl acetate	43	2.967	2.967	0.000	99	903667	100.0	111.0	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	914150	50.0	48.1	
30 Methylene Chloride	84	3.072	3.072	0.000	99	507116	50.0	48.8	
31 2-Methyl-2-propanol	59	3.125	3.125	0.000	96	466530	500.0	523.3	
32 Acrylonitrile	53	3.230	3.230	0.000	98	2225490	500.0	557.0	
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	98	1347806	50.0	53.4	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	447673	50.0	48.9	
35 Hexane	57	3.455	3.455	0.000	98	643725	50.0	50.6	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2154533	100.0	99.0	
39 1,1-Dichloroethane	63	3.575	3.575	0.000	96	996336	50.0	52.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1137105	200.0	227.6	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	503486	50.0	50.0	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	91	626266	50.0	46.2	
48 sec-Butyl Alcohol	45	4.066	4.066	0.000	99	1089660	1200.0	1204.9	
50 Chlorobromomethane	128	4.148	4.148	0.000	91	222200	50.0	52.4	
51 Tetrahydrofuran	42	4.156	4.156	0.000	93	386319	100.0	118.4	
52 Chloroform	83	4.204	4.204	0.000	95	873515	50.0	51.4	
53 1,1,1-Trichloroethane	97	4.343	4.343	0.000	97	702180	50.0	52.7	
54 Cyclohexane	56	4.399	4.399	0.000	96	911699	50.0	54.9	
55 1,1-Dichloropropene	75	4.455	4.455	0.000	96	709968	50.0	52.8	
56 Carbon tetrachloride	117	4.459	4.459	0.000	96	599353	50.0	52.6	
57 Isobutyl alcohol	41	4.474	4.474	0.000	93	484162	1250.0	1264.7	
58 Benzene	78	4.602	4.602	0.000	98	2056206	50.0	51.6	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	723884	50.0	53.1	
63 n-Heptane	43	4.789	4.789	0.000	98	598778	50.0	50.5	
65 Trichloroethene	95	5.085	5.085	0.000	96	488565	50.0	51.7	
66 2-Pentanone	43	5.190	5.190	0.000	98	1393974	160.0	173.9	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	656712	50.0	54.9	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	95	588636	50.0	53.0	
70 1,4-Dioxane	88	5.336	5.336	0.000	98	123645	1000.0	894.9	
71 Dibromomethane	93	5.359	5.359	0.000	90	303397	50.0	50.8	
72 Dichlorobromomethane	83	5.483	5.483	0.000	98	691799	50.0	53.0	
74 2-Chloroethyl vinyl ether	63	5.685	5.685	0.000	92	344266	50.0	51.8	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	850623	50.0	52.8	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2399779	200.0	214.0	
77 Toluene	91	6.112	6.112	0.000	97	2107028	50.0	51.1	
78 trans-1,3-Dichloropropene	75	6.289	6.289	0.000	94	757166	50.0	51.9	
79 Ethyl methacrylate	69	6.319	6.319	0.000	93	657452	50.0	52.7	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	92	422976	50.0	51.9	
81 Tetrachloroethene	164	6.551	6.551	0.000	92	326058	50.0	50.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	94	835149	50.0	54.7	
83 2-Hexanone	43	6.630	6.630	0.000	98	1638496	200.0	221.7	
84 Chlorodibromomethane	129	6.798	6.798	0.000	91	466450	50.0	51.2	
86 Ethylene Dibromide	107	6.915	6.915	0.000	98	439918	50.0	53.1	
87 1-Chlorohexane	91	7.308	7.308	0.000	89	492704	40.0	40.0	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1269037	50.0	49.5	
89 1,1,1,2-Tetrachloroethane	131	7.417	7.417	0.000	95	450784	50.0	52.1	
90 Ethylbenzene	106	7.424	7.424	0.000	99	697963	50.0	51.6	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	879254	50.0	53.6	
92 o-Xylene	106	7.900	7.900	0.000	98	856394	50.0	53.9	
93 Styrene	104	7.915	7.915	0.000	95	1436256	50.0	54.5	
94 Bromoform	173	8.095	8.095	0.000	93	298156	50.0	50.6	
95 Isopropylbenzene	105	8.242	8.242	0.000	97	2099274	50.0	52.5	
97 Cyclohexanone	55	8.335	8.335	0.000	97	933479	1500.0	1720.9	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	610300	50.0	52.0	
99 Bromobenzene	156	8.553	8.553	0.000	97	502070	50.0	50.1	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	70	176445	50.0	49.7	
101 1,2,3-Trichloropropane	110	8.590	8.590	0.000	87	167624	50.0	51.6	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	568342	50.0	51.5	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	512281	50.0	51.5	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	95	1762586	50.0	53.0	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	527793	50.0	51.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
106 tert-Butylbenzene	119	9.119	9.119	0.000	95	1439238	50.0	53.0	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1870987	50.0	51.0	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	404569	50.0	52.9	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	97	931808	50.0	49.1	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1772519	50.0	48.8	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	957236	50.0	47.8	
114 n-Butylbenzene	91	9.891	9.891	0.000	98	1659252	50.0	49.0	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	886723	50.0	49.8	
116 1,2-Dibromo-3-Chloropropane	157	10.697	10.697	0.000	77	89013	50.0	48.2	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	417841	50.0	47.2	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	96	176140	50.0	42.2	
120 Naphthalene	128	11.788	11.788	0.000	98	1006694	50.0	41.1	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	246255	50.0	39.4	
S 143 1,3-Dichloropropene, Total	1				0		100.0	104.7	
S 142 Trihalomethanes, Total	1				0		200.0	206.2	
S 141 Xylenes, Total	106				0		100.0	107.5	
S 140 1,2-Dichloroethene, Total	1				0		100.0	98.9	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 23:28:02

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787bb.D

Injection Date: 03-Aug-2023 16:12:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

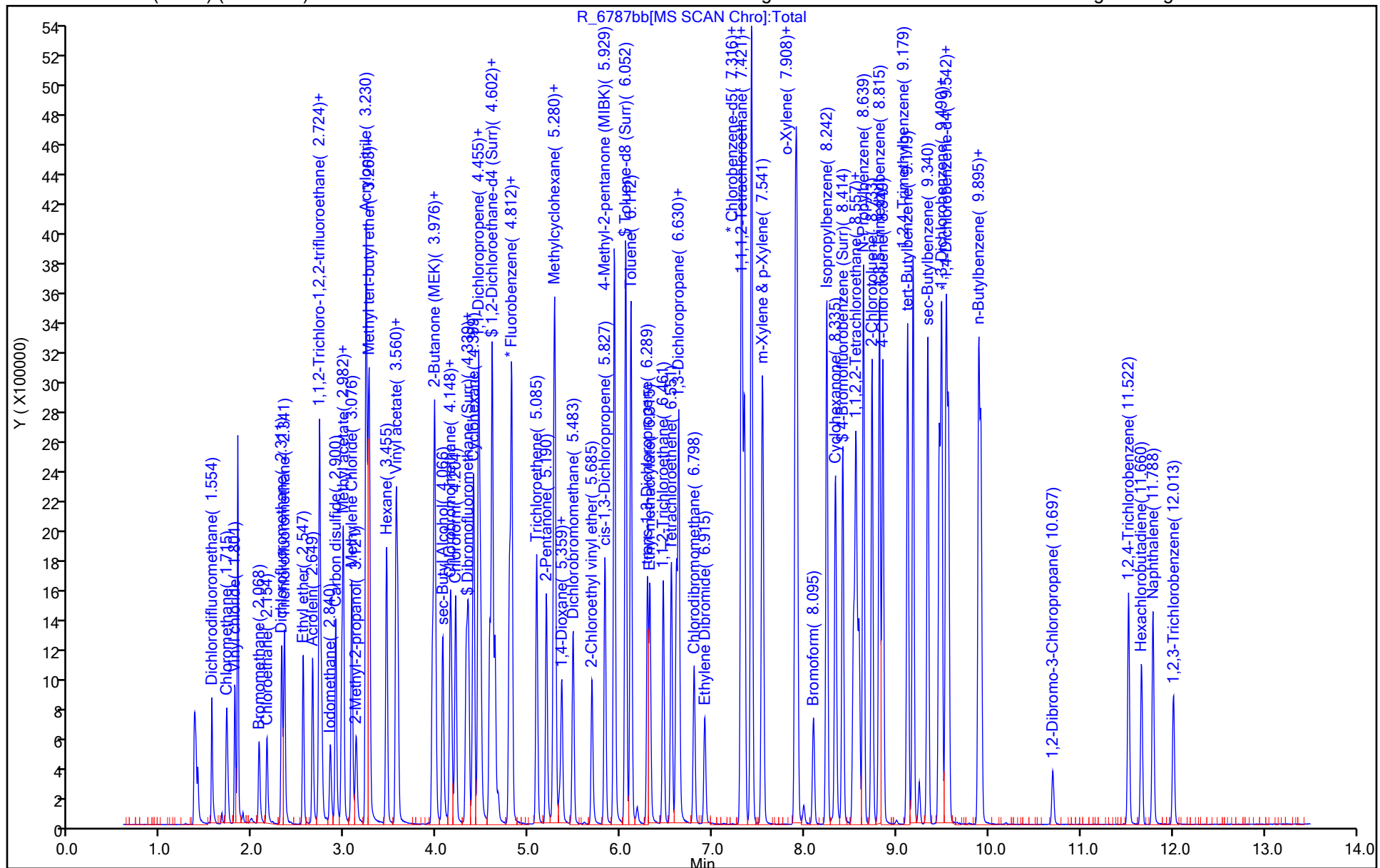
ALS Bottle#: 29

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6787bb.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 03-Aug-2023 16:12:30 ALS Bottle#: 29 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc
Misc. Info.: 280-0124143-033
Operator ID: wickham Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:09:12

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.3	100.52
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.19
\$ 6 Toluene-d8 (Surr)	50.0	50.8	101.67
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.7	103.37

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-621775/5
 Matrix: Water Lab File ID: R_6788b.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 16:33
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	31.1		3.0	1.2
75-05-8	Acetonitrile	359		30	9.6
126-98-7	Methacrylonitrile	334		15	5.3
80-62-6	Methyl methacrylate	45.8		4.0	1.1
107-12-0	Propionitrile	274		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	107		78-120
2037-26-5	Toluene-d8 (Surr)	101		80-125
1868-53-7	Dibromofluoromethane (Surr)	102		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788b.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Aug-2023 16:33:30 ALS Bottle#: 30 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124143-034
 Operator ID: wickham Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:30:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.815	4.815	0.000	98	1961989	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	474990	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	715399	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	92	525995	50.0	51.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	645188	50.0	52.4	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2058646	50.0	50.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	739427	50.0	53.4	
17 Ethanol	45	2.457	2.457	0.000	100	230074	1500.0	2441.7	
24 Isopropyl alcohol	45	2.832	2.832	0.000	98	164716	250.0	328.1	
27 Acetonitrile	41	2.945	2.945	0.000	100	419209	250.0	358.8	
38 Isopropyl ether	87	3.574	3.574	0.000	95	173918	25.0	25.4	
40 2-Chloro-1,3-butadiene	53	3.627	3.627	0.000	94	400733	25.0	31.1	
41 Tert-butyl ethyl ether	59	3.833	3.833	0.000	99	717298	25.0	30.2	
44 Ethyl acetate	43	3.968	3.968	0.000	99	520043	50.0	69.9	
47 Propionitrile	54	3.998	3.998	0.000	99	384491	250.0	273.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	95	1850469	250.0	333.6	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	92	599097	25.0	27.6	
64 n-Butanol	56	4.969	4.969	0.000	91	141828	625.0	560.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	109901	50.0	45.8	
73 2-Nitropropane	41	5.647	5.647	0.000	99	130655	50.0	61.2	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.298	0.000	0	154920	50.0	53.9	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	840739	25.0	25.6	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	244769	25.0	21.1	
127 t-Amyl alcohol	1		0.000				ND	ND	
129 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 23:28:05

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788b.D

Injection Date: 03-Aug-2023 16:33:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

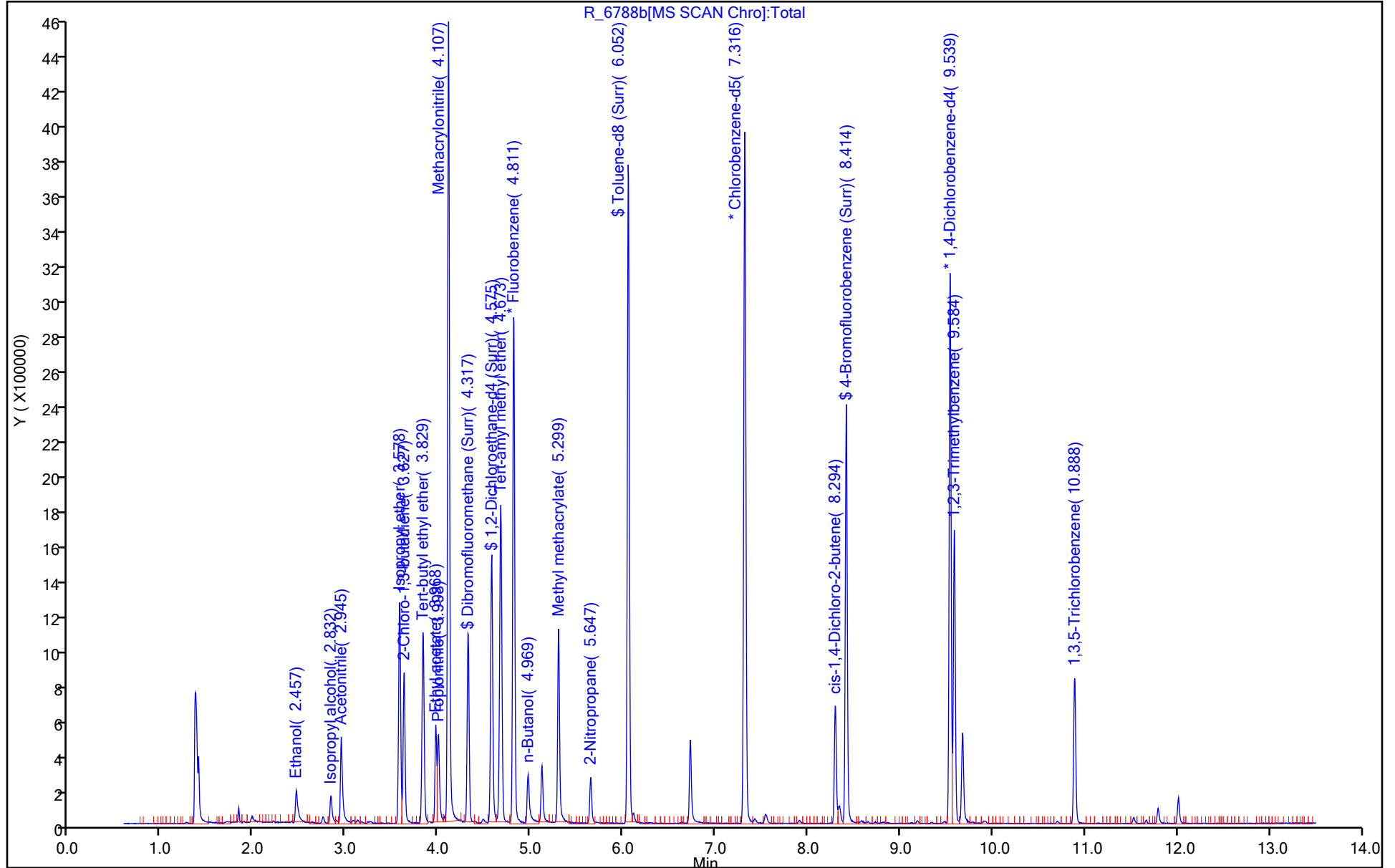
ALS Bottle#: 30

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6788b.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 03-Aug-2023 16:33:30 ALS Bottle#: 30 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc
Misc. Info.: 280-0124143-034
Operator ID: wickham Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 17:30:48

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	51.0	102.04
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.4	104.70
\$ 6 Toluene-d8 (Surr)	50.0	50.3	100.64
\$ 7 4-Bromofluorobenzene (Surr)	50.0	53.4	106.76

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621894/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6844c.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 15:54</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621894</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	51.9		1.0	0.58
71-55-6	1,1,1-Trichloroethane	52.5		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	50.8		1.0	0.21
79-00-5	1,1,2-Trichloroethane	52.3		1.0	0.27
75-34-3	1,1-Dichloroethane	51.2		1.0	0.22
75-35-4	1,1-Dichloroethene	49.6		1.0	0.23
563-58-6	1,1-Dichloropropene	52.2		1.0	0.42
96-18-4	1,2,3-Trichloropropane	53.1		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	49.2		5.0	1.8
95-50-1	1,2-Dichlorobenzene	50.4		1.0	0.37
107-06-2	1,2-Dichloroethane	53.8		1.0	0.54
78-87-5	1,2-Dichloropropane	52.9		1.0	0.52
541-73-1	1,3-Dichlorobenzene	49.9		1.0	0.33
142-28-9	1,3-Dichloropropane	53.4		1.0	0.38
106-46-7	1,4-Dichlorobenzene	48.4		1.0	0.39
594-20-7	2,2-Dichloropropane	46.9		1.0	0.38
591-78-6	2-Hexanone	216		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	217		5.0	0.98
67-64-1	Acetone	210		15	6.6
71-43-2	Benzene	50.6		1.0	0.31
75-25-2	Bromoform	50.7		2.0	1.2
74-83-9	Bromomethane	36.3		5.0	2.4
75-15-0	Carbon disulfide	47.0		2.0	0.63
56-23-5	Carbon tetrachloride	53.1		1.0	0.57
108-90-7	Chlorobenzene	49.1		1.0	0.42
74-97-5	Chlorobromomethane	51.5		1.0	0.40
124-48-1	Chlorodibromomethane	50.8		2.0	0.62
75-00-3	Chloroethane	46.5		4.0	1.4
67-66-3	Chloroform	52.1		1.0	0.36
74-87-3	Chloromethane	46.3		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	50.1		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	51.1		2.0	0.63
74-95-3	Dibromomethane	50.7		1.0	0.34
75-27-4	Dichlorobromomethane	53.3		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 280-621894/4

Matrix: Water Lab File ID: R_6844c.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2023 15:54

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 621894 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	49.6		3.0	0.96
100-41-4	Ethylbenzene	50.7		1.0	0.30
74-88-4	Iodomethane	39.0		5.0	2.6
78-83-1	Isobutyl alcohol	1310		110	37
75-09-2	Methylene Chloride	48.2		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	50.7		2.0	0.36
95-47-6	o-Xylene	52.8		1.0	0.33
100-42-5	Styrene	54.0		1.0	0.36
127-18-4	Tetrachloroethene	50.0		1.0	0.40
108-88-3	Toluene	50.1		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	48.3		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	52.8		2.0	0.65
79-01-6	Trichloroethene	50.3		1.0	0.30
75-69-4	Trichlorofluoromethane	48.5		2.0	0.57
108-05-4	Vinyl acetate	85.1		3.0	0.94
75-01-4	Vinyl chloride	48.2		2.0	0.51
1330-20-7	Xylenes, Total	104		1.0	0.33
78-93-3	2-Butanone (MEK)	226		15	6.0
107-02-8	Acrolein	443		20	4.9
107-13-1	Acrylonitrile	556		20	4.5
106-93-4	1,2-Dibromoethane	51.2		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	47.4		1.0	0.58
107-05-1	Allyl chloride	47.3		2.0	0.17
97-63-2	Ethyl methacrylate	50.4		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	52.5		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6844c.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-Aug-2023 15:54:30 ALS Bottle#: 28 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124185-033
 Operator ID: wickham Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 10:35:44 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.811	0.001	98	1816066	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	89	459352	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.538	0.001	97	733743	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	91	478537	50.0	50.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	613534	50.0	53.8	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1975066	50.0	49.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	720498	50.0	50.7	
9 Dichlorodifluoromethane	85	1.550	1.550	0.000	99	432198	50.0	49.6	
10 Chloromethane	50	1.715	1.715	0.000	99	638828	50.0	46.3	
11 Vinyl chloride	62	1.805	1.805	0.000	98	534746	50.0	48.2	
13 Bromomethane	94	2.067	2.067	0.000	91	263944	50.0	36.3	
14 Chloroethane	64	2.154	2.154	0.000	99	332784	50.0	46.5	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	826220	50.0	49.0	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	99	590631	50.0	48.5	
18 Ethyl ether	59	2.547	2.547	0.000	96	396010	50.0	52.0	
20 Acrolein	56	2.649	2.649	0.000	99	565713	493.8	442.8	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.724	2.724	0.000	97	252262	50.0	50.1	
22 1,1-Dichloroethene	96	2.724	2.724	0.000	94	347518	50.0	49.6	
23 Acetone	43	2.746	2.746	0.000	99	657999	200.0	209.8	
25 Iodomethane	142	2.840	2.840	0.000	100	381671	50.0	39.0	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1304827	50.0	47.0	
28 Methyl acetate	43	2.963	2.963	0.000	99	779095	100.0	104.9	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	91	821471	50.0	47.3	
30 Methylene Chloride	84	3.076	3.076	0.000	99	456912	50.0	48.2	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	95	407584	500.0	500.9	
32 Acrylonitrile	53	3.230	3.230	0.000	98	2028135	500.0	556.2	
33 Methyl tert-butyl ether	73	3.252	3.252	0.000	98	1207638	50.0	52.4	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	93	402930	50.0	48.3	
35 Hexane	57	3.454	3.454	0.000	97	584900	50.0	49.0	
37 Vinyl acetate	43	3.556	3.556	0.000	97	1687471	100.0	85.1	
39 1,1-Dichloroethane	63	3.574	3.574	0.000	97	896087	50.0	51.2	
43 2-Butanone (MEK)	43	3.953	3.953	0.000	99	1028970	200.0	225.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	460617	50.0	50.1	
46 2,2-Dichloropropane	77	3.983	3.983	0.000	92	579822	50.0	46.9	
48 sec-Butyl Alcohol	45	4.062	4.062	0.000	99	947915	1200.0	1149.0	
50 Chlorobromomethane	128	4.144	4.144	0.000	91	199037	50.0	51.5	
51 Tetrahydrofuran	42	4.155	4.155	0.000	92	347138	100.0	116.6	
52 Chloroform	83	4.204	4.204	0.000	95	807686	50.0	52.1	
53 1,1,1-Trichloroethane	97	4.339	4.339	0.000	97	638273	50.0	52.5	
54 Cyclohexane	56	4.399	4.399	0.000	96	808494	50.0	53.4	
55 1,1-Dichloropropene	75	4.452	4.452	0.000	97	641034	50.0	52.2	
56 Carbon tetrachloride	117	4.459	4.459	0.000	96	552472	50.0	53.1	
57 Isobutyl alcohol	41	4.474	4.474	0.000	94	457117	1250.0	1308.0	
58 Benzene	78	4.602	4.602	0.000	98	1840069	50.0	50.6	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	669490	50.0	53.8	
63 n-Heptane	43	4.789	4.789	0.000	96	532654	50.0	49.2	
65 Trichloroethene	95	5.085	5.085	0.000	96	446151	50.0	50.3	
66 2-Pentanone	43	5.190	5.190	0.000	98	1255415	160.0	171.6	
67 Methylcyclohexane	55	5.273	5.273	0.000	96	592329	50.0	54.3	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	94	536042	50.0	52.9	
70 1,4-Dioxane	88	5.333	5.333	0.000	98	105511	1000.0	837.4	
71 Dibromomethane	93	5.359	5.359	0.000	91	276502	50.0	50.7	
72 Dichlorobromomethane	83	5.483	5.483	0.000	98	634895	50.0	53.3	
74 2-Chloroethyl vinyl ether	63	5.689	5.689	0.000	91	307213	50.0	50.7	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	772035	50.0	51.1	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2216772	200.0	216.6	
77 Toluene	91	6.112	6.112	0.000	98	1886090	50.0	50.1	
78 trans-1,3-Dichloropropene	75	6.292	6.292	0.000	93	702200	50.0	52.8	
79 Ethyl methacrylate	69	6.315	6.315	0.000	93	589653	50.0	50.4	
80 1,1,2-Trichloroethane	97	6.465	6.465	0.000	93	389081	50.0	52.3	
81 Tetrachloroethene	164	6.551	6.551	0.000	93	302051	50.0	50.0	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	96	764051	50.0	53.4	
83 2-Hexanone	43	6.630	6.630	0.000	98	1494990	200.0	215.7	
84 Chlorodibromomethane	129	6.798	6.798	0.000	91	433433	50.0	50.8	
86 Ethylene Dibromide	107	6.914	6.914	0.000	97	397932	50.0	51.2	
87 1-Chlorohexane	91	7.308	7.308	0.000	88	445559	40.0	38.6	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1179869	50.0	49.1	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.421	0.000	95	421297	50.0	51.9	
90 Ethylbenzene	106	7.424	7.424	0.000	99	643843	50.0	50.7	
91 m-Xylene & p-Xylene	106	7.541	7.541	0.000	0	780611	50.0	50.7	
92 o-Xylene	106	7.900	7.900	0.000	97	787166	50.0	52.8	
93 Styrene	104	7.915	7.915	0.000	95	1334141	50.0	54.0	
94 Bromoform	173	8.095	8.095	0.000	93	279804	50.0	50.7	
95 Isopropylbenzene	105	8.242	8.242	0.000	97	1932403	50.0	51.9	
97 Cyclohexanone	55	8.335	8.335	0.000	97	635742	1500.0	1253.1	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	93	554748	50.0	50.8	
99 Bromobenzene	156	8.556	8.556	0.000	97	469820	50.0	50.4	
100 trans-1,4-Dichloro-2-butene	53	8.571	8.571	0.000	79	173594	50.0	52.5	
101 1,2,3-Trichloropropane	110	8.594	8.594	0.000	86	160753	50.0	53.1	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	524629	50.0	51.0	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	471227	50.0	51.0	
104 1,3,5-Trimethylbenzene	105	8.811	8.811	0.000	94	1655747	50.0	53.5	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	490941	50.0	51.2	
106 tert-Butylbenzene	119	9.119	9.119	0.000	94	1320192	50.0	52.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1722971	50.0	50.5	
108 sec-Butylbenzene	134	9.336	9.336	0.000	95	373795	50.0	52.5	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	96	881534	50.0	49.9	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1665806	50.0	49.2	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	902159	50.0	48.4	
114 n-Butylbenzene	91	9.895	9.895	0.000	98	1550738	50.0	49.2	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	833904	50.0	50.4	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.701	0.000	75	84629	50.0	49.2	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	389695	50.0	47.4	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	97	170777	50.0	44.0	
120 Naphthalene	128	11.788	11.788	0.000	98	927719	50.0	40.7	
121 1,2,3-Trichlorobenzene	180	12.009	12.009	0.000	95	236274	50.0	40.6	
S 143 1,3-Dichloropropene, Total	1				0		100.0	103.9	
S 142 Trihalomethanes, Total	1				0		200.0	206.7	
S 141 Xylenes, Total	106				0		100.0	103.6	
S 140 1,2-Dichloroethene, Total	1				0		100.0	98.3	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6844c.D

Injection Date: 04-Aug-2023 15:54:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

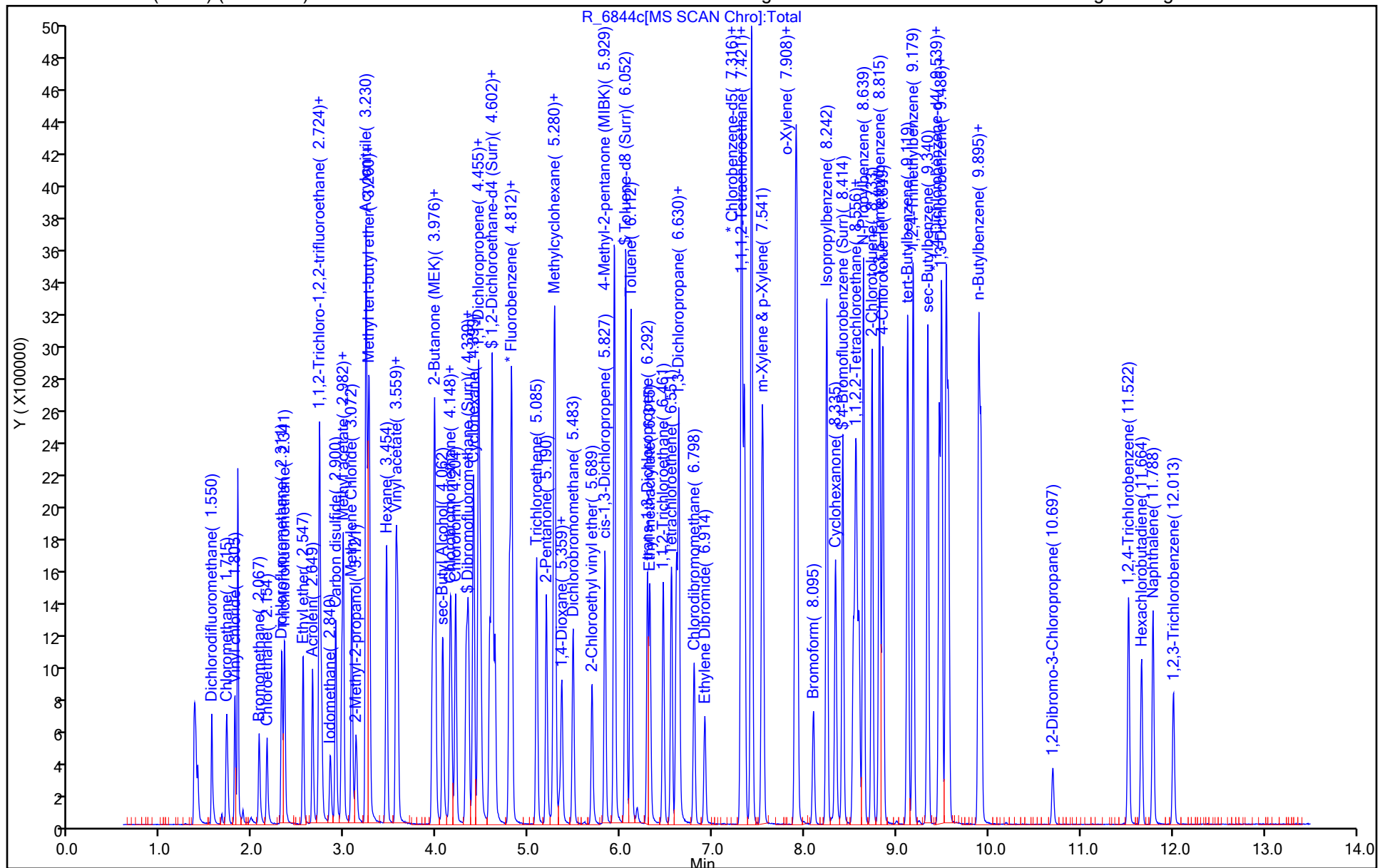
ALS Bottle#: 28

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6844c.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Aug-2023 15:54:30 ALS Bottle#: 28 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc
Misc. Info.: 280-0124185-033
Operator ID: wickhamt Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 05-Aug-2023 10:35:44 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1690

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.1	100.29
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.8	107.57
\$ 6 Toluene-d8 (Surr)	50.0	49.9	99.84
\$ 7 4-Bromofluorobenzene (Surr)	50.0	50.7	101.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-621894/5
 Matrix: Water Lab File ID: R_6845b.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2023 16:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621894 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	29.6		3.0	1.2
75-05-8	Acetonitrile	348		30	9.6
126-98-7	Methacrylonitrile	333		15	5.3
80-62-6	Methyl methacrylate	43.1		4.0	1.1
107-12-0	Propionitrile	268		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		70-127
460-00-4	4-Bromofluorobenzene (Surr)	109		78-120
2037-26-5	Toluene-d8 (Surr)	98		80-125
1868-53-7	Dibromofluoromethane (Surr)	102		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6845b.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-Aug-2023 16:16:30 ALS Bottle#: 29 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvc
 Misc. Info.: 280-0124185-034
 Operator ID: wickham Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 10:35:44 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.811	0.000	98	1816186	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	451738	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.538	9.538	0.000	98	670143	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.320	4.320	0.000	91	487629	50.0	51.1	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	613324	50.0	53.8	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1902084	50.0	48.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	704627	50.0	54.3	
17 Ethanol	45	2.457	2.457	0.000	100	215037	1500.0	2465.8	
24 Isopropyl alcohol	45	2.836	2.836	0.000	97	127665	250.0	274.7	
27 Acetonitrile	41	2.945	2.945	0.000	100	376581	250.0	348.2	
38 Isopropyl ether	87	3.578	3.578	0.000	94	154251	25.0	24.3	
40 2-Chloro-1,3-butadiene	53	3.627	3.627	0.000	93	353446	25.0	29.6	
41 Tert-butyl ethyl ether	59	3.829	3.829	0.000	97	606039	25.0	27.5	
44 Ethyl acetate	43	3.968	3.968	0.000	99	474101	50.0	68.8	
47 Propionitrile	54	3.998	3.998	0.000	99	348836	250.0	268.1	
49 Methacrylonitrile	41	4.107	4.107	0.000	96	1707641	250.0	332.6	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	95	532113	25.0	26.4	
64 n-Butanol	56	4.969	4.969	0.000	93	127311	625.0	544.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	95703	50.0	43.1	
73 2-Nitropropane	41	5.647	5.647	0.000	97	120788	50.0	61.1	
96 cis-1,4-Dichloro-2-butene	53	8.294	8.294	0.000	0	137956	50.0	51.3	
113 1,2,3-Trimethylbenzene	105	9.583	9.583	0.000	99	746890	25.0	24.3	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	218717	25.0	20.2	
129 Ethyl acrylate	55		0.000				ND	ND	
127 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6845b.D

Injection Date: 04-Aug-2023 16:16:30

Instrument ID: VMS_R1

Operator ID: wickhamt

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

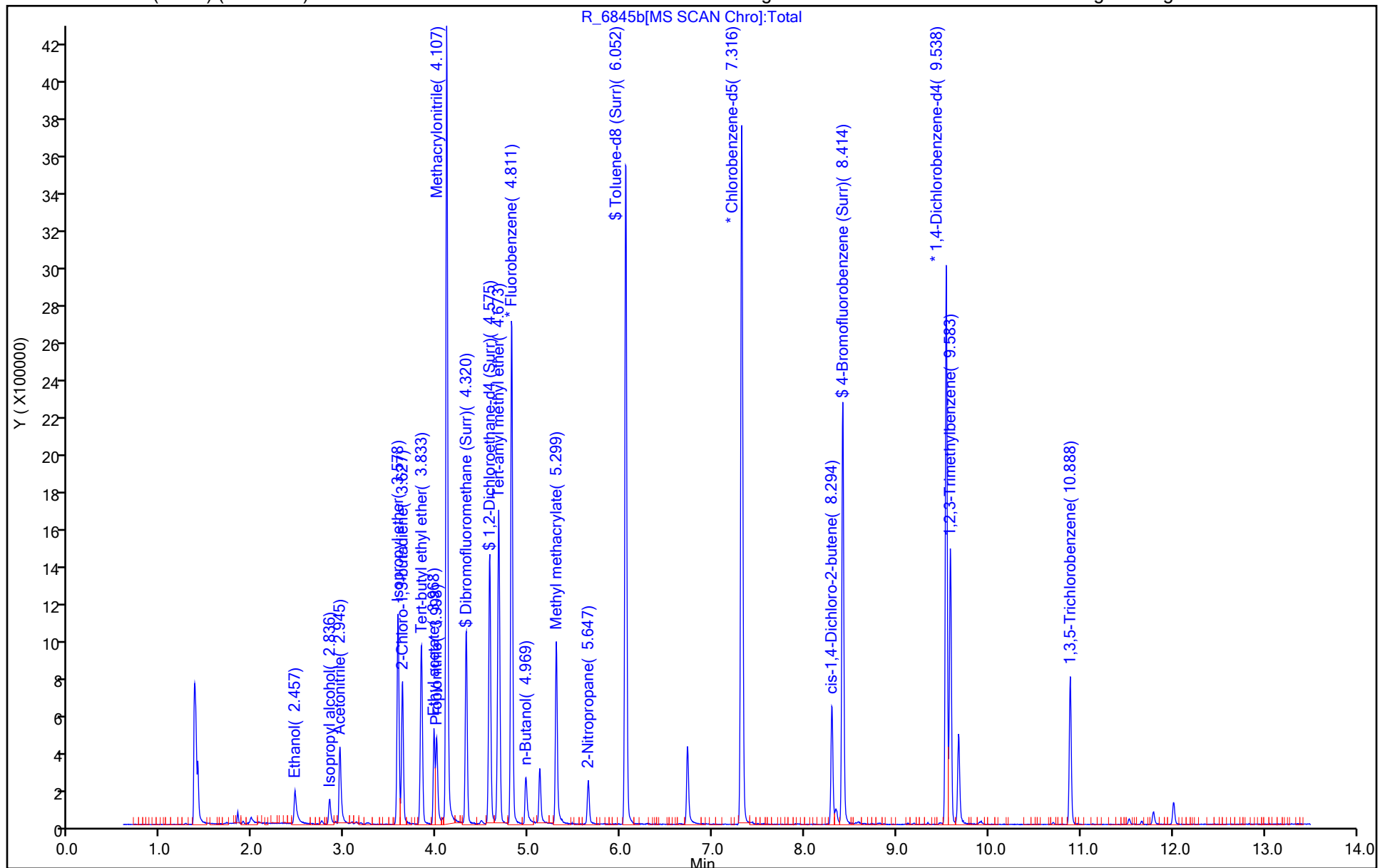
ALS Bottle#: 29

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6845b.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Aug-2023 16:16:30 ALS Bottle#: 29 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccvc
Misc. Info.: 280-0124185-034
Operator ID: wickhamt Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 05-Aug-2023 10:35:44 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1690

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	51.1	102.19
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.8	107.52
\$ 6 Toluene-d8 (Surr)	50.0	48.9	97.77
\$ 7 4-Bromofluorobenzene (Surr)	50.0	54.3	108.61

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621922/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS1_2876a.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 18:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621922</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	44.1		1.0	0.58
71-55-6	1,1,1-Trichloroethane	49.2		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	49.6		1.0	0.21
79-00-5	1,1,2-Trichloroethane	48.1		1.0	0.27
75-34-3	1,1-Dichloroethane	48.3		1.0	0.22
75-35-4	1,1-Dichloroethene	44.8		1.0	0.23
563-58-6	1,1-Dichloropropene	47.1		1.0	0.42
96-18-4	1,2,3-Trichloropropane	44.0		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	41.9		5.0	1.8
95-50-1	1,2-Dichlorobenzene	45.2		1.0	0.37
107-06-2	1,2-Dichloroethane	46.7		1.0	0.54
78-87-5	1,2-Dichloropropane	45.6		1.0	0.52
541-73-1	1,3-Dichlorobenzene	48.6		1.0	0.33
142-28-9	1,3-Dichloropropane	48.8		1.0	0.38
106-46-7	1,4-Dichlorobenzene	45.3		1.0	0.39
594-20-7	2,2-Dichloropropane	50.8		1.0	0.38
591-78-6	2-Hexanone	191		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	199		5.0	0.98
67-64-1	Acetone	219		15	6.6
71-43-2	Benzene	45.7		1.0	0.31
75-25-2	Bromoform	40.8		2.0	1.2
74-83-9	Bromomethane	39.7		5.0	2.4
75-15-0	Carbon disulfide	44.0		2.0	0.63
56-23-5	Carbon tetrachloride	44.7		1.0	0.57
108-90-7	Chlorobenzene	45.1		1.0	0.42
74-97-5	Chlorobromomethane	49.9		1.0	0.40
124-48-1	Chlorodibromomethane	43.7		2.0	0.62
75-00-3	Chloroethane	49.3		4.0	1.4
67-66-3	Chloroform	50.6		1.0	0.36
74-87-3	Chloromethane	48.2		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	49.6		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	45.3		2.0	0.63
74-95-3	Dibromomethane	47.2		1.0	0.34
75-27-4	Dichlorobromomethane	46.0		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 280-621922/4</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS1_2876a.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/04/2023 18:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621922</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	47.7		3.0	0.96
100-41-4	Ethylbenzene	45.1		1.0	0.30
74-88-4	Iodomethane	43.7		5.0	2.6
78-83-1	Isobutyl alcohol	1250		110	37
75-09-2	Methylene Chloride	50.6		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	47.8		2.0	0.36
95-47-6	o-Xylene	45.1		1.0	0.33
100-42-5	Styrene	45.8		1.0	0.36
127-18-4	Tetrachloroethene	44.5		1.0	0.40
108-88-3	Toluene	48.2		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	49.2		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	46.3		2.0	0.65
79-01-6	Trichloroethene	47.8		1.0	0.30
75-69-4	Trichlorofluoromethane	47.5		2.0	0.57
108-05-4	Vinyl acetate	127		3.0	0.94
75-01-4	Vinyl chloride	51.0		2.0	0.51
1330-20-7	Xylenes, Total	92.9		1.0	0.33
78-93-3	2-Butanone (MEK)	211		15	6.0
107-02-8	Acrolein	478		20	4.9
107-13-1	Acrylonitrile	497		20	4.5
106-93-4	1,2-Dibromoethane	46.5		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	46.9		1.0	0.58
107-05-1	Allyl chloride	51.1		2.0	0.17
97-63-2	Ethyl methacrylate	46.4		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	44.8		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2876a.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-Aug-2023 18:19:30 ALS Bottle#: 1 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccv
 Operator ID: wickham Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 00:17:48 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1601

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1383351	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	88	345471	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.045	0.014	96	542111	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	92	338339	50.0	49.4	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	443853	50.0	51.5	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1428175	50.0	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	84	549158	50.0	50.9	
9 Dichlorodifluoromethane	85	1.814	1.814	0.000	99	256854	50.0	47.7	
10 Chloromethane	50	2.023	2.023	0.000	99	308794	50.0	48.2	
11 Vinyl chloride	62	2.149	2.149	0.000	98	299598	50.0	51.0	
13 Bromomethane	94	2.470	2.470	0.000	92	152253	50.0	39.7	
14 Chloroethane	64	2.610	2.610	0.000	99	183586	50.0	49.3	
15 Dichlorofluoromethane	67	2.847	2.847	0.000	98	437305	50.0	50.1	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	353095	50.0	47.5	
18 Ethyl ether	59	3.168	3.168	0.000	94	237571	50.0	47.3	
20 Acrolein	56	3.322	3.322	0.000	99	428798	493.8	478.1	
22 1,1-Dichloroethene	96	3.406	3.406	0.000	97	220261	50.0	44.8	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	3.420	3.420	0.000	93	170144	50.0	50.6	
23 Acetone	43	3.462	3.462	0.000	98	453240	200.0	218.9	
24 Iodomethane	142	3.559	3.559	0.000	98	240675	50.0	43.7	
26 Carbon disulfide	76	3.629	3.629	0.000	100	745759	50.0	44.0	
28 Methyl acetate	43	3.755	3.755	0.000	98	494633	100.0	97.0	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	89	450176	50.0	51.1	
30 Methylene Chloride	84	3.895	3.895	0.000	94	279671	50.0	50.6	
31 2-Methyl-2-propanol	59	3.978	3.978	0.000	99	342302	500.0	496.9	
32 Acrylonitrile	53	4.104	4.104	0.000	97	1282028	500.0	496.7	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	96	818357	50.0	51.1	
34 trans-1,2-Dichloroethene	96	4.132	4.132	0.000	97	259326	50.0	49.2	
36 Hexane	57	4.383	4.383	0.000	95	310758	50.0	48.7	
38 Vinyl acetate	43	4.523	4.523	0.000	97	1225461	100.0	127.0	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	496784	50.0	48.3	
44 2-Butanone (MEK)	43	5.012	5.012	0.000	100	676133	200.0	210.9	
46 2,2-Dichloropropane	77	5.040	5.040	0.000	89	430141	50.0	50.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	84	290728	50.0	49.6	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	656706	1200.0	1195.9	
52 Tetrahydrofuran	42	5.249	5.249	0.000	88	203813	100.0	95.4	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	116996	50.0	49.9	
53 Chloroform	83	5.319	5.319	0.000	94	469982	50.0	50.6	
54 1,1,1-Trichloroethane	97	5.473	5.473	0.000	98	392970	50.0	49.2	
57 Cyclohexane	56	5.543	5.543	0.000	92	457818	50.0	48.9	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	93	376160	50.0	47.1	
59 Carbon tetrachloride	117	5.612	5.612	0.000	83	306674	50.0	44.7	
60 Isobutyl alcohol	41	5.668	5.668	0.000	94	284234	1250.0	1251.9	
61 Benzene	78	5.780	5.780	0.000	98	1125563	50.0	45.7	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	98	382948	50.0	46.7	
64 n-Heptane	43	6.003	6.003	0.000	96	280526	50.0	50.2	
66 Trichloroethene	95	6.353	6.353	0.000	98	272656	50.0	47.8	
67 2-Pentanone	43	6.478	6.478	0.000	99	776391	160.0	166.5	
68 Methylcyclohexane	55	6.548	6.548	0.000	95	323290	50.0	51.9	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	95	283998	50.0	45.6	
71 1,4-Dioxane	88	6.632	6.632	0.000	96	88957	1000.0	964.9	
72 Dibromomethane	93	6.660	6.660	0.000	95	165232	50.0	47.2	
73 Dichlorobromomethane	83	6.800	6.800	0.000	99	349996	50.0	46.0	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	92	145192	50.0	49.3	
76 cis-1,3-Dichloropropene	75	7.177	7.177	0.000	93	446053	50.0	45.3	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	98	1216158	200.0	199.3	
80 Toluene	91	7.484	7.484	0.000	98	1169847	50.0	48.2	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	96	420848	50.0	46.3	
84 Ethyl methacrylate	69	7.707	7.707	0.000	90	373423	50.0	46.4	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	92	235549	50.0	48.1	
89 Tetrachloroethene	164	7.959	7.959	0.000	96	194276	50.0	44.5	
90 1,3-Dichloropropane	76	8.015	8.015	0.000	97	439777	50.0	48.8	
91 2-Hexanone	43	8.043	8.043	0.000	97	875573	200.0	191.4	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	230465	50.0	43.7	
95 Ethylene Dibromide	107	8.350	8.350	0.000	98	249246	50.0	46.5	
96 1-Chlorohexane	91	8.755	8.755	0.000	98	287411	40.0	41.1	
97 Chlorobenzene	112	8.797	8.797	0.000	92	715384	50.0	45.1	
98 Ethylbenzene	106	8.880	8.880	0.000	99	396489	50.0	45.1	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	237661	50.0	44.1	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	499296	50.0	47.8	
101 o-Xylene	106	9.369	9.369	0.000	97	487617	50.0	45.1	
103 Styrene	104	9.383	9.383	0.000	95	834946	50.0	45.8	
104 Bromoform	173	9.579	9.579	0.000	95	153372	50.0	40.8	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	1200530	50.0	45.6	
107 Cyclohexanone	55	9.830	9.830	0.000	95	660159	1500.0	1557.6	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	94	336885	50.0	49.6	
109 Bromobenzene	156	10.054	10.054	0.000	97	292409	50.0	44.7	
110 trans-1,4-Dichloro-2-butene	53	10.054	10.054	0.000	78	103616	50.0	44.8	
111 1,2,3-Trichloropropane	110	10.082	10.082	0.000	86	99139	50.0	44.0	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	323089	50.0	45.2	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	287402	50.0	45.7	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	1010538	50.0	45.4	
115 4-Chlorotoluene	126	10.347	10.347	0.000	99	300434	50.0	48.6	
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	803761	50.0	48.4	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	1061138	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
118 sec-Butylbenzene	134	10.850	10.850	0.000	95	225371	50.0	46.4	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	97	550179	50.0	48.6	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	1000760	50.0	49.1	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	93	555963	50.0	45.3	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	887307	50.0	50.8	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	515597	50.0	45.2	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	81	66836	50.0	41.9	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	297255	50.0	46.9	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	98	109211	50.0	43.0	
130 Naphthalene	128	13.336	13.336	0.000	97	892720	50.0	45.9	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	96	255599	50.0	44.1	
S 147 1,2-Dichloroethene, Total (URS)	95				0		100.0	98.7	
S 154 1,3-Dichloropropene, Total	1				0		100.0	91.6	
S 153 1,2-Dichloroethene, Total	1				0		100.0	98.7	
S 152 Trihalomethanes, Total	1				0		200.0	181.1	
S 150 Xylenes, Total (URS)	1				0		100.0	92.9	
S 148 Xylenes, Total	106				0		100.0	92.9	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00161

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 00:17:50

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2876a.D

Injection Date: 04-Aug-2023 18:19:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

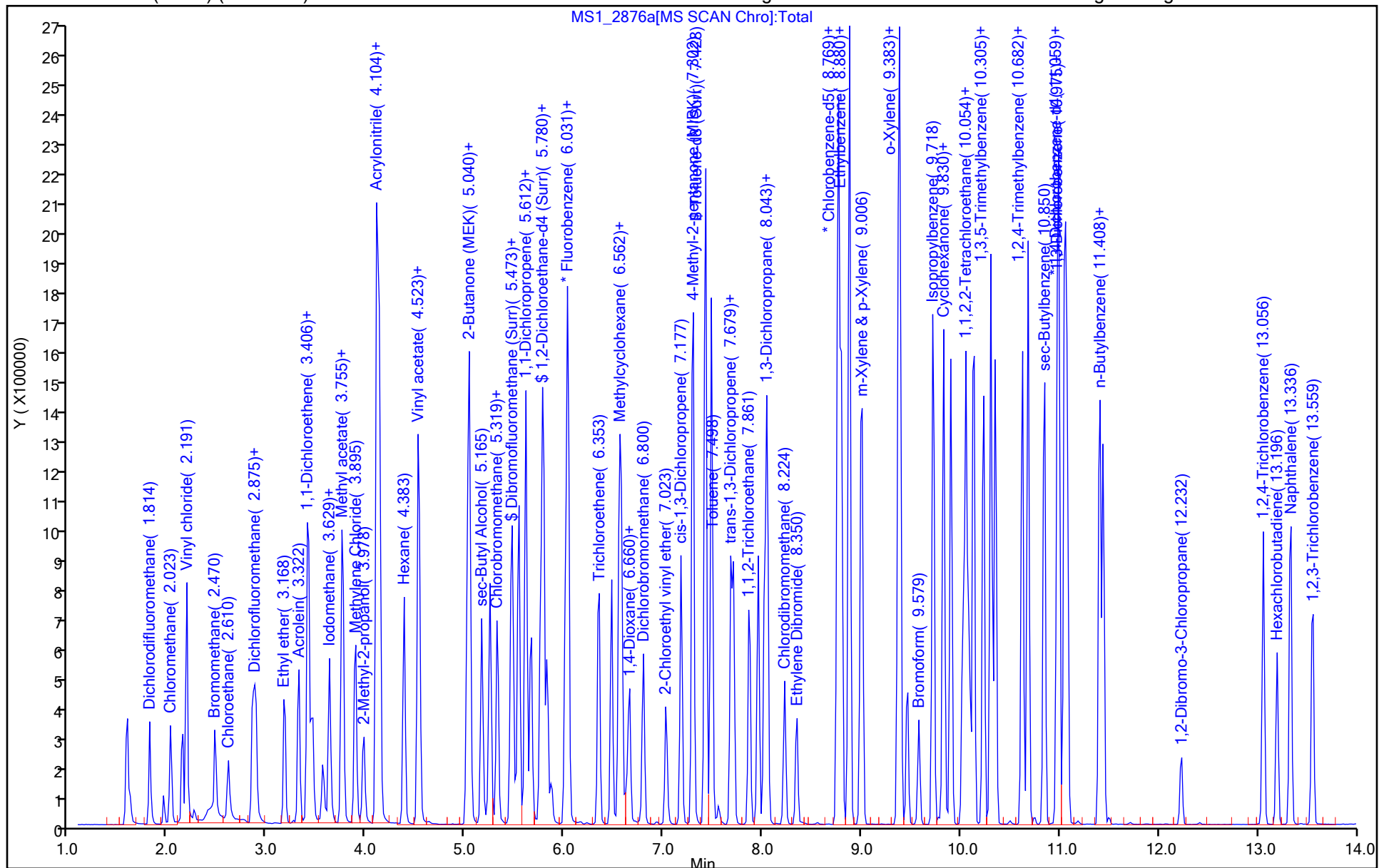
ALS Bottle#: 1

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\VMS1_2876a.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Aug-2023 18:19:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ccv
Operator ID: wickhamt Instrument ID: VMS_MS1
Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 05-Aug-2023 00:17:48 Calib Date: 01-Aug-2023 12:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.4	98.88
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.5	102.94
\$ 6 Toluene-d8 (Surr)	50.0	50.2	100.50
\$ 7 4-Bromofluorobenzene (Surr)	50.0	50.9	101.71

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-621922/5
 Matrix: Water Lab File ID: MS1_2877a.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2023 18:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	24.7		3.0	1.2
75-05-8	Acetonitrile	215		30	9.6
126-98-7	Methacrylonitrile	213		15	5.3
80-62-6	Methyl methacrylate	43.9		4.0	1.1
107-12-0	Propionitrile	207		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	98		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2877a.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 04-Aug-2023 18:40:30 ALS Bottle#: 2 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lccv s
 Operator ID: wickhamt Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 00:17:48 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1601

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1362149	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	335286	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	97	524295	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	93	331228	50.0	49.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	433249	50.0	51.0	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1384679	50.0	50.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	84	531884	50.0	50.9	
17 Ethanol	45	3.084	3.084	0.000	100	138519	1500.0	1447.0	
25 Isopropyl alcohol	45	3.587	3.587	0.000	98	101025	250.0	220.2	
27 Acetonitrile	41	3.727	3.727	0.000	100	234014	250.0	214.6	
40 Isopropyl ether	87	4.551	4.551	0.000	94	100782	25.0	22.6	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	93	210220	25.0	24.7	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	99	386896	25.0	23.1	
47 Ethyl acetate	43	5.040	5.040	0.000	99	350878	50.0	52.7	
48 Propionitrile	54	5.082	5.082	0.000	99	228217	250.0	207.4	
50 Methacrylonitrile	41	5.207	5.207	0.000	94	909794	250.0	213.0	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	95	346331	25.0	22.4	
65 n-Butanol	56	6.227	6.227	0.000	90	84987	625.0	517.8	
70 Methyl methacrylate	100	6.590	6.590	0.000	92	75814	50.0	43.9	
74 2-Nitropropane	41	6.981	6.981	0.000	99	76653	50.0	52.1	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	88652	50.0	45.4	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	98	497473	25.0	22.6	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	97	152348	25.0	21.3	
142 Ethyl acrylate	55		0.000				ND	ND	
135 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 00:17:52

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2877a.D

Injection Date: 04-Aug-2023 18:40:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

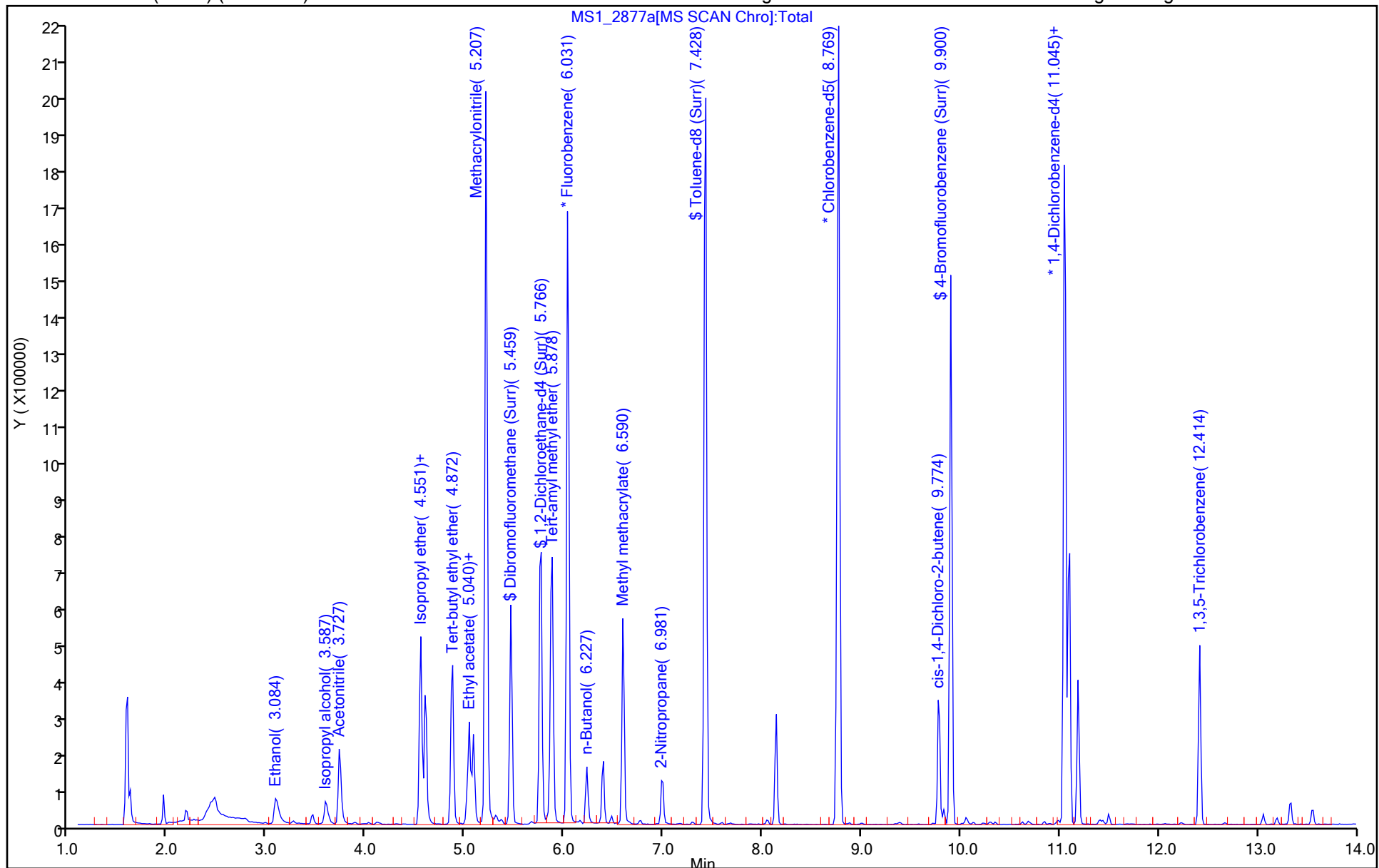
ALS Bottle#: 2

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\VMS1_2877a.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Aug-2023 18:40:30 ALS Bottle#: 2 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lccv s
Operator ID: wickhamt Instrument ID: VMS_MS1
Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 05-Aug-2023 00:17:48 Calib Date: 01-Aug-2023 12:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.2	98.31
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.0	102.05
\$ 6 Toluene-d8 (Surr)	50.0	50.2	100.40
\$ 7 4-Bromofluorobenzene (Surr)	50.0	50.9	101.85

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 280-621653/5</u>
Matrix: <u>Water</u>	Lab File ID: <u>ms11_00000551.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 07:25</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>RXI-624SilMS</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>Y</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621653</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	45.6		1.0	0.58
71-55-6	1,1,1-Trichloroethane	47.7		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	49.1		1.0	0.21
79-00-5	1,1,2-Trichloroethane	46.7		1.0	0.27
75-34-3	1,1-Dichloroethane	50.3		1.0	0.22
75-35-4	1,1-Dichloroethene	46.6		1.0	0.23
563-58-6	1,1-Dichloropropene	47.8		1.0	0.42
96-18-4	1,2,3-Trichloropropane	47.4		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	42.1		5.0	1.8
95-50-1	1,2-Dichlorobenzene	45.9		1.0	0.37
107-06-2	1,2-Dichloroethane	50.9		1.0	0.54
78-87-5	1,2-Dichloropropane	48.9		1.0	0.52
541-73-1	1,3-Dichlorobenzene	45.2		1.0	0.33
142-28-9	1,3-Dichloropropane	50.1		1.0	0.38
106-46-7	1,4-Dichlorobenzene	44.1		1.0	0.39
594-20-7	2,2-Dichloropropane	48.2		1.0	0.38
591-78-6	2-Hexanone	220		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	223		5.0	0.98
67-64-1	Acetone	215		15	6.6
71-43-2	Benzene	49.7		1.0	0.31
75-25-2	Bromoform	42.7		2.0	1.2
74-83-9	Bromomethane	51.4		5.0	2.4
75-15-0	Carbon disulfide	50.7		2.0	0.63
56-23-5	Carbon tetrachloride	46.3		1.0	0.57
108-90-7	Chlorobenzene	46.4		1.0	0.42
74-97-5	Chlorobromomethane	44.3		1.0	0.40
124-48-1	Chlorodibromomethane	47.3		2.0	0.62
75-00-3	Chloroethane	49.6		4.0	1.4
67-66-3	Chloroform	48.7		1.0	0.36
74-87-3	Chloromethane	49.5		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	44.4		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	50.8		2.0	0.63
74-95-3	Dibromomethane	46.0		1.0	0.34
75-27-4	Dichlorobromomethane	49.1		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-621653/5

Matrix: Water Lab File ID: ms11_00000551.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 07:25

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 621653 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	56.4		3.0	0.96
100-41-4	Ethylbenzene	47.0		1.0	0.30
74-88-4	Iodomethane	50.3		5.0	2.6
78-83-1	Isobutyl alcohol	1230		110	37
75-09-2	Methylene Chloride	45.3		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	49.0		2.0	0.36
95-47-6	o-Xylene	46.2		1.0	0.33
100-42-5	Styrene	49.3		1.0	0.36
127-18-4	Tetrachloroethene	46.5		1.0	0.40
108-88-3	Toluene	46.8		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	46.4		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	48.6		2.0	0.65
79-01-6	Trichloroethene	44.8		1.0	0.30
75-69-4	Trichlorofluoromethane	51.2		2.0	0.57
108-05-4	Vinyl acetate	118		3.0	0.94
75-01-4	Vinyl chloride	52.4		2.0	0.51
1330-20-7	Xylenes, Total	95.2		1.0	0.33
78-93-3	2-Butanone (MEK)	204		15	6.0
107-02-8	Acrolein	484		20	4.9
107-13-1	Acrylonitrile	506		20	4.5
106-93-4	1,2-Dibromoethane	47.7		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	44.4		1.0	0.58
107-05-1	Allyl chloride	51.2		2.0	0.17
97-63-2	Ethyl methacrylate	50.3		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	49.0		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-127
460-00-4	4-Bromofluorobenzene (Surr)	105		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000551.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 03-Aug-2023 07:25:30 ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD M
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 10:29:45 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 07:42:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.068	5.082	-0.014	98	1732458	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	461146	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	97	818610	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.579	4.579	0.000	93	483764	50.0	50.0	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.830	4.830	0.000	0	679905	50.0	54.5	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	94	1903115	50.0	51.2	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.643	8.643	0.000	89	737994	50.0	52.4	
9 Dichlorodifluoromethane	85	1.702	1.702	0.000	99	428144	50.0	56.4	
10 Chloromethane	50	1.869	1.883	-0.014	99	622363	50.0	49.5	
11 Vinyl chloride	62	1.981	1.981	0.000	98	594672	50.0	52.4	
12 Bromomethane	94	2.261	2.246	0.015	93	279353	50.0	51.4	
13 Chloroethane	64	2.358	2.344	0.014	99	396617	50.0	49.6	
14 Dichlorofluoromethane	67	2.526	2.526	0.000	98	1045622	50.0	51.5	
15 Trichlorofluoromethane	101	2.554	2.554	0.000	99	661151	50.0	51.2	
17 Ethyl ether	59	2.763	2.763	0.000	95	393517	50.0	49.5	
18 Acrolein	56	2.875	2.875	0.000	99	650606	493.8	483.6	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.959	2.959	0.000	64	241973	50.0	46.8	
19 1,1-Dichloroethene	96	2.959	2.959	0.000	95	347487	50.0	46.6	
21 Acetone	43	2.973	2.973	0.000	98	657052	200.0	214.9	
23 Iodomethane	142	3.071	3.084	-0.013	99	465278	50.0	50.3	
24 Carbon disulfide	76	3.140	3.140	0.000	100	1241209	50.0	50.7	
26 Methyl acetate	43	3.196	3.196	0.000	99	789474	100.0	101.9	
27 3-Chloro-1-propene	41	3.224	3.224	0.000	88	795819	50.0	51.2	
28 Methylene Chloride	84	3.308	3.308	0.000	98	435618	50.0	45.3	
29 2-Methyl-2-propanol	59	3.350	3.364	-0.014	98	468740	500.0	429.0	
30 Acrylonitrile	53	3.476	3.476	0.000	97	1978030	500.0	505.6	
31 Methyl tert-butyl ether	73	3.490	3.489	0.001	99	1380630	50.0	49.6	
32 trans-1,2-Dichloroethene	96	3.504	3.517	-0.013	94	405824	50.0	46.4	
33 Hexane	57	3.699	3.699	0.000	96	510806	50.0	57.8	
34 Vinyl acetate	43	3.797	3.797	0.000	98	2357928	100.0	117.6	
35 1,1-Dichloroethane	63	3.825	3.825	0.000	97	831609	50.0	50.3	
39 2-Butanone (MEK)	43	4.202	4.202	0.000	99	1050168	200.0	203.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
41 cis-1,2-Dichloroethene	96	4.230	4.230	0.000	86	447685	50.0	44.4	
42 2,2-Dichloropropane	77	4.244	4.244	0.000	91	670359	50.0	48.2	
44 sec-Butyl Alcohol	45	4.300	4.313	-0.013	99	1015945	1200.0	1108.0	
46 Chlorobromomethane	128	4.397	4.411	-0.014	94	213458	50.0	44.3	
47 Tetrahydrofuran	42	4.411	4.411	0.000	89	341105	100.0	106.0	
48 Chloroform	83	4.453	4.467	-0.014	95	780488	50.0	48.7	
49 1,1,1-Trichloroethane	97	4.607	4.607	0.000	98	640141	50.0	47.7	
50 Cyclohexane	56	4.663	4.663	0.000	95	686506	50.0	52.1	
51 1,1-Dichloropropene	75	4.719	4.719	0.001	88	603006	50.0	47.8	
52 Carbon tetrachloride	117	4.719	4.719	0.001	82	497373	50.0	46.3	
53 Isobutyl alcohol	43	4.719	4.732	-0.013	93	631028	1250.0	1228.0	
54 Benzene	78	4.858	4.872	-0.014	99	1759756	50.0	49.7	
55 1,2-Dichloroethane	62	4.886	4.886	0.000	97	712939	50.0	50.9	
57 n-Heptane	43	5.040	5.040	0.000	97	481041	50.0	58.7	
59 Trichloroethene	130	5.347	5.347	0.000	96	433142	50.0	44.8	
60 2-Pentanone	43	5.445	5.445	0.000	98	1324659	160.0	175.4	
61 Methylcyclohexane	55	5.529	5.543	-0.014	88	491324	50.0	53.2	
62 1,2-Dichloropropane	63	5.543	5.543	0.000	89	496438	50.0	48.9	
64 1,4-Dioxane	88	5.585	5.598	-0.014	99	131779	1000.0	850.0	
65 Dibromomethane	93	5.612	5.626	-0.014	96	285507	50.0	46.0	
66 Dichlorobromomethane	83	5.738	5.738	0.000	98	577623	50.0	49.1	
68 2-Chloroethyl vinyl ether	63	5.934	5.934	0.000	92	343524	50.0	51.5	
69 cis-1,3-Dichloropropene	75	6.087	6.087	0.000	91	718363	50.0	50.8	
70 4-Methyl-2-pentanone (MIBK)	43	6.185	6.185	0.000	99	2164653	200.0	223.1	
71 Toluene	91	6.367	6.367	0.000	97	1813168	50.0	46.8	
72 trans-1,3-Dichloropropene	75	6.534	6.534	0.000	100	720893	50.0	48.6	
73 Ethyl methacrylate	69	6.562	6.562	0.000	92	605820	50.0	50.3	
74 1,1,2-Trichloroethane	97	6.716	6.716	0.000	94	390111	50.0	46.7	
75 Tetrachloroethene	164	6.814	6.813	0.001	97	351491	50.0	46.5	
76 1,3-Dichloropropane	76	6.855	6.855	0.000	97	746666	50.0	50.1	
77 2-Hexanone	43	6.869	6.869	0.000	99	1491533	200.0	219.6	
78 Chlorodibromomethane	129	7.051	7.051	0.000	91	399418	50.0	47.3	
79 Ethylene Dibromide	107	7.163	7.163	0.000	98	403830	50.0	47.7	
80 1-Chlorohexane	91	7.554	7.554	0.000	91	442982	40.0	39.8	
81 Chlorobenzene	112	7.596	7.596	0.000	92	1174165	50.0	46.4	
82 1,1,1,2-Tetrachloroethane	131	7.665	7.665	0.000	44	388099	50.0	45.6	
83 Ethylbenzene	106	7.665	7.665	0.000	99	634847	50.0	47.0	
84 m-Xylene & p-Xylene	91	7.777	7.791	-0.014	0	1603460	50.0	49.0	
85 o-Xylene	106	8.140	8.140	0.000	97	766057	50.0	46.2	
86 Styrene	104	8.154	8.154	0.000	94	1356545	50.0	49.3	
87 Bromoform	173	8.336	8.336	0.000	96	257587	50.0	42.7	
88 Isopropylbenzene	105	8.476	8.475	0.001	97	1939318	50.0	49.2	
90 Cyclohexanone	55	8.573	8.573	0.000	96	666632	1500.0	1106.4	
91 1,1,2,2-Tetrachloroethane	83	8.755	8.755	0.000	95	541177	50.0	49.1	
93 trans-1,4-Dichloro-2-butene	53	8.797	8.797	0.000	53	180119	50.0	49.0	
92 Bromobenzene	156	8.797	8.797	0.000	97	528056	50.0	46.8	
94 1,2,3-Trichloropropane	110	8.825	8.825	0.000	89	170924	50.0	47.4	
95 N-Propylbenzene	120	8.867	8.866	0.001	99	526750	50.0	47.7	
96 2-Chlorotoluene	126	8.964	8.964	0.000	95	458615	50.0	46.2	
97 1,3,5-Trimethylbenzene	105	9.034	9.034	0.000	94	1615760	50.0	49.2	
98 4-Chlorotoluene	126	9.076	9.090	-0.014	99	494597	50.0	47.1	
99 tert-Butylbenzene	119	9.341	9.341	0.000	94	1330177	50.0	45.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
100 1,2,4-Trimethylbenzene	105	9.397	9.397	0.000	99	1683336	50.0	49.2	
101 sec-Butylbenzene	134	9.565	9.565	0.000	95	386724	50.0	47.5	
102 1,3-Dichlorobenzene	146	9.691	9.690	0.001	98	961420	50.0	45.2	
103 4-Isopropyltoluene	119	9.705	9.704	0.001	97	1651399	50.0	47.9	
104 1,4-Dichlorobenzene	146	9.788	9.788	0.000	93	974152	50.0	44.1	
106 n-Butylbenzene	91	10.110	10.109	0.001	98	1471271	50.0	49.7	
107 1,2-Dichlorobenzene	146	10.137	10.137	0.000	96	924300	50.0	45.9	
108 1,2-Dibromo-3-Chloropropane	157	10.906	10.906	0.000	76	103011	50.0	42.1	
110 1,2,4-Trichlorobenzene	180	11.730	11.730	0.000	94	609415	50.0	44.4	
111 Hexachlorobutadiene	225	11.869	11.869	0.000	97	266797	50.0	44.3	
112 Naphthalene	128	11.981	11.995	-0.014	98	1590845	50.0	48.9	
113 1,2,3-Trichlorobenzene	180	12.204	12.204	0.000	95	520503	50.0	46.8	
S 122 Xylenes, Total	106				0		100.0	95.2	
S 123 1,2-Dichloroethene, Total	1				0		100.0	90.9	
S 124 1,3-Dichloropropene, Total	1				0		100.0	99.4	
S 125 Trihalomethanes, Total	1				0		200.0	187.7	

QC Flag Legend

Processing Flags

Reagents:

MV-Gas B_00141

Amount Added: 10.00

Units: uL

MV-MegaMain B_00088

Amount Added: 25.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000551.D

Injection Date: 03-Aug-2023 07:25:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

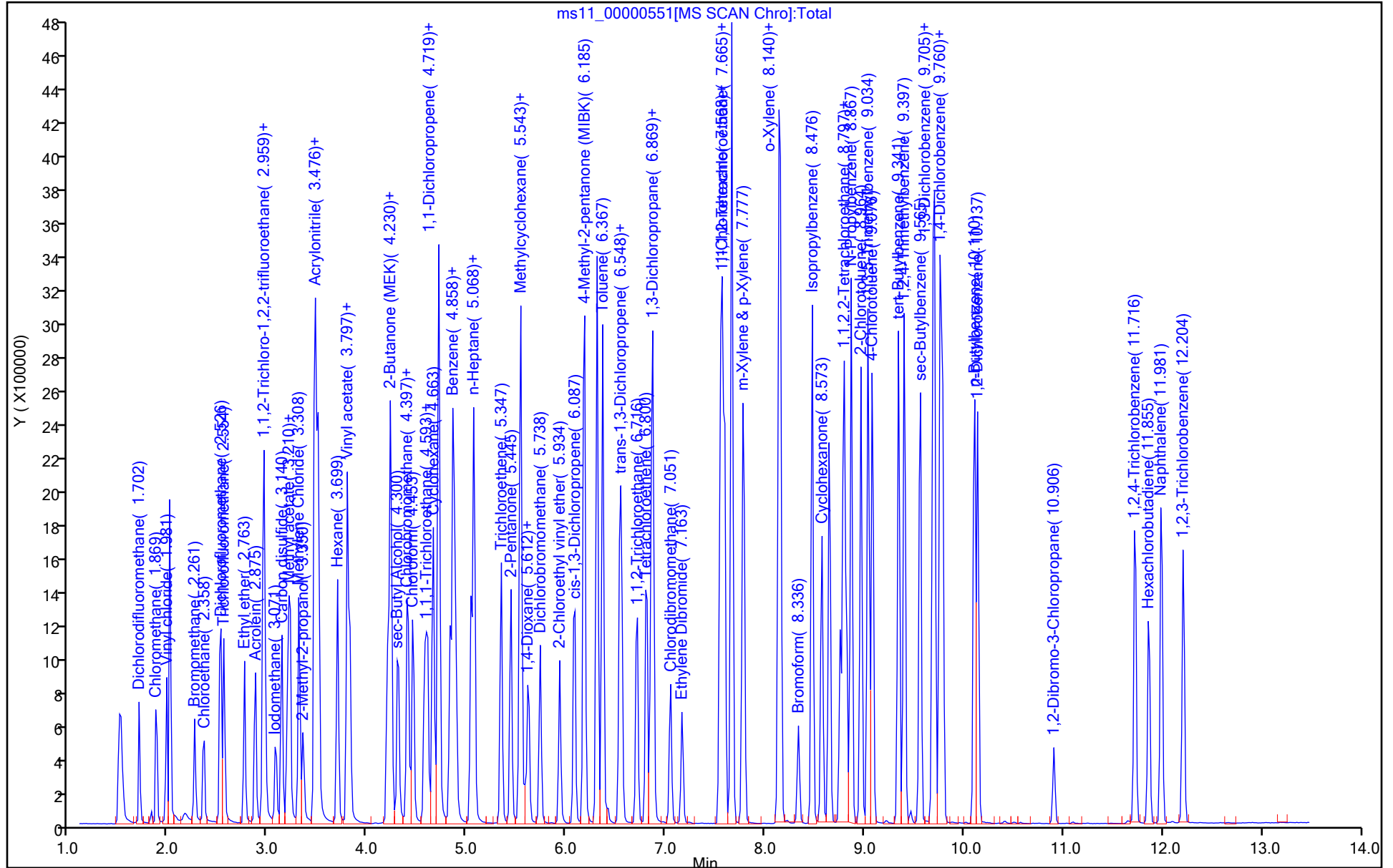
ALS Bottle#: 3

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000551.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Aug-2023 07:25:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD M
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 10:29:45 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 07:42:19

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.0	100.00
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	54.5	109.03
\$ 6 Toluene-d8 (Surr)	50.0	51.2	102.34
\$ 7 4-Bromofluorobenzene (Surr)	50.0	52.4	104.82

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-621653/7

Matrix: Water Lab File ID: ms11_00000552.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 09:36

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: RXI-624SilMS ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) Y pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 621653 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	29.2		3.0	1.2
75-05-8	Acetonitrile	356		30	9.6
126-98-7	Methacrylonitrile	332		15	5.3
80-62-6	Methyl methacrylate	53.4		4.0	1.1
107-12-0	Propionitrile	292		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	108		78-120
2037-26-5	Toluene-d8 (Surr)	103		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000552.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 03-Aug-2023 09:36:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD S
 Operator ID: MED Instrument ID: VMS_MS11
 Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 03-Aug-2023 10:29:45 Calib Date: 01-Aug-2023 10:30:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
 Column 1 : DB-624 (0.25 mm) Det: MS SCAN
 Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 10:29:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.068	5.082	-0.014	97	1633257	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.568	7.568	0.000	90	444580	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.760	9.760	0.000	96	755807	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.565	4.579	-0.014	93	457797	50.0	50.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.830	4.830	0.000	0	618503	50.0	52.6	
\$ 6 Toluene-d8 (Surr)	98	6.311	6.311	0.000	95	1840357	50.0	51.3	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.643	8.643	0.000	88	700904	50.0	53.9	
16 Ethanol	45	2.679	2.679	0.000	100	248126	1500.0	2087.0	
22 Isopropyl alcohol	45	3.056	3.056	0.000	98	163266	250.0	296.2	
25 Acetonitrile	41	3.182	3.182	0.000	100	430708	250.0	355.5	
36 Isopropyl ether	87	3.825	3.825	0.000	94	188010	25.0	26.6	
37 2-Chloro-1,3-butadiene	53	3.866	3.867	-0.001	95	354125	25.0	29.2	
38 Tert-butyl ethyl ether	59	4.076	4.076	0.000	98	730368	25.0	28.3	
40 Ethyl acetate	43	4.216	4.216	0.000	100	568093	50.0	70.1	
43 Propionitrile	54	4.244	4.244	0.000	98	364085	250.0	292.2	
45 Methacrylonitrile	41	4.355	4.355	0.000	97	1629562	250.0	332.1	
56 Tert-amyl methyl ether	73	4.928	4.928	0.000	86	649617	25.0	26.9	
58 n-Butanol	56	5.207	5.207	0.000	95	166393	625.0	632.7	
63 Methyl methacrylate	100	5.542	5.542	0.000	93	120146	50.0	53.4	
67 2-Nitropropane	41	5.892	5.892	0.000	98	70249	50.0	34.5	
89 cis-1,4-Dichloro-2-butene	53	8.517	8.517	0.000	0	155548	50.0	41.8	
105 1,2,3-Trimethylbenzene	105	9.802	9.802	0.000	99	815768	25.0	22.6	
109 1,3,5-Trichlorobenzene	180	11.087	11.101	-0.014	96	299515	25.0	23.6	
120 Ethyl acrylate	55		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp B_00063

Amount Added: 25.00

Units: uL

mv-IS_SS_00064

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 03-Aug-2023 10:29:49

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000552.D

Injection Date: 03-Aug-2023 09:36:30

Instrument ID: VMS_MS11

Operator ID: MED

Lims ID: LCSD

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

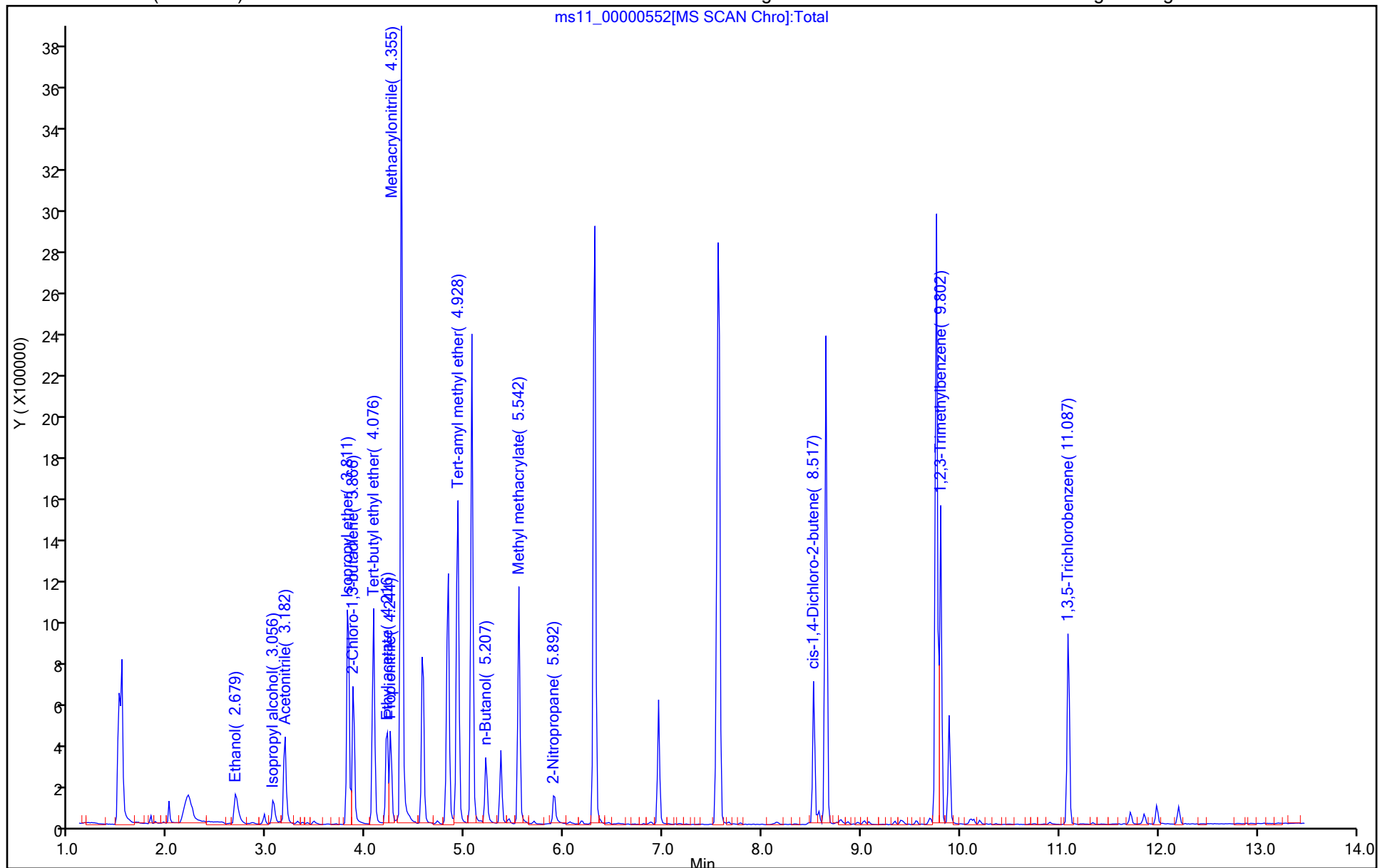
ALS Bottle#: 4

Method: AQ_VMS11_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\ms11_00000552.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Aug-2023 09:36:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD S
Operator ID: MED Instrument ID: VMS_MS11
Method: \\chromfs\Denver\ChromData\VMS_MS11\20230803-124144.b\AQ_VMS11_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 03-Aug-2023 10:29:45 Calib Date: 01-Aug-2023 10:30:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS11\20230801-124062.b\ms11_00000440.D
Column 1 : DB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: BX8N

Date: 03-Aug-2023 10:29:17

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.2	100.38
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.6	105.21
\$ 6 Toluene-d8 (Surr)	50.0	51.3	102.65
\$ 7 4-Bromofluorobenzene (Surr)	50.0	53.9	107.82

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 280-621775/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6789.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/03/2023 17:14</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	50.5		1.0	0.58
71-55-6	1,1,1-Trichloroethane	48.5		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	53.0		1.0	0.21
79-00-5	1,1,2-Trichloroethane	52.5		1.0	0.27
75-34-3	1,1-Dichloroethane	49.2		1.0	0.22
75-35-4	1,1-Dichloroethene	44.0		1.0	0.23
563-58-6	1,1-Dichloropropene	48.5		1.0	0.42
96-18-4	1,2,3-Trichloropropane	51.6		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	47.3		5.0	1.8
95-50-1	1,2-Dichlorobenzene	50.0		1.0	0.37
107-06-2	1,2-Dichloroethane	53.5		1.0	0.54
78-87-5	1,2-Dichloropropane	51.8		1.0	0.52
541-73-1	1,3-Dichlorobenzene	48.7		1.0	0.33
142-28-9	1,3-Dichloropropane	53.2		1.0	0.38
106-46-7	1,4-Dichlorobenzene	47.8		1.0	0.39
594-20-7	2,2-Dichloropropane	51.1		1.0	0.38
591-78-6	2-Hexanone	224		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	218		5.0	0.98
67-64-1	Acetone	219		15	6.6
71-43-2	Benzene	49.4		1.0	0.31
75-25-2	Bromoform	51.2		2.0	1.2
74-83-9	Bromomethane	34.5		5.0	2.4
75-15-0	Carbon disulfide	39.4		2.0	0.63
56-23-5	Carbon tetrachloride	48.2		1.0	0.57
108-90-7	Chlorobenzene	48.3		1.0	0.42
74-97-5	Chlorobromomethane	51.7		1.0	0.40
124-48-1	Chlorodibromomethane	51.9		2.0	0.62
75-00-3	Chloroethane	40.4		4.0	1.4
67-66-3	Chloroform	50.6		1.0	0.36
74-87-3	Chloromethane	37.7		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	48.9		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	53.2		2.0	0.63
74-95-3	Dibromomethane	51.3		1.0	0.34
75-27-4	Dichlorobromomethane	53.1		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 280-621775/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6789.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/03/2023 17:14</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	33.8		3.0	0.96
100-41-4	Ethylbenzene	49.2		1.0	0.30
74-88-4	Iodomethane	42.2		5.0	2.6
78-83-1	Isobutyl alcohol	1320		110	37
75-09-2	Methylene Chloride	48.4		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	49.9		2.0	0.36
95-47-6	o-Xylene	51.6		1.0	0.33
100-42-5	Styrene	53.1		1.0	0.36
127-18-4	Tetrachloroethene	47.6		1.0	0.40
108-88-3	Toluene	49.1		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	45.7		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	54.8		2.0	0.65
79-01-6	Trichloroethene	46.9		1.0	0.30
75-69-4	Trichlorofluoromethane	43.7		2.0	0.57
108-05-4	Vinyl acetate	114		3.0	0.94
75-01-4	Vinyl chloride	40.0		2.0	0.51
1330-20-7	Xylenes, Total	102		1.0	0.33
78-93-3	2-Butanone (MEK)	231		15	6.0
107-02-8	Acrolein	534		20	4.9
107-13-1	Acrylonitrile	557		20	4.5
106-93-4	1,2-Dibromoethane	52.4		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	48.4		1.0	0.58
107-05-1	Allyl chloride	46.7		2.0	0.17
97-63-2	Ethyl methacrylate	52.9		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	54.3		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6789.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 03-Aug-2023 17:14:30 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcsd m
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 18:00:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.815	-0.004	98	1952624	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	89	487761	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	97	779763	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	511823	50.0	49.9	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	651423	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2098661	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	774322	50.0	51.3	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	316307	50.0	33.8	
10 Chloromethane	50	1.715	1.715	0.000	99	559760	50.0	37.7	
11 Vinyl chloride	62	1.805	1.801	0.004	98	477698	50.0	40.0	
13 Bromomethane	94	2.067	2.068	-0.001	92	269511	50.0	34.5	
14 Chloroethane	64	2.150	2.150	0.000	99	311245	50.0	40.4	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	813184	50.0	44.9	
16 Trichlorofluoromethane	101	2.341	2.341	0.000	98	571505	50.0	43.7	
18 Ethyl ether	59	2.544	2.547	-0.003	97	430418	50.0	52.6	
20 Acrolein	56	2.649	2.649	0.000	99	733450	493.8	534.0	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.723	2.724	-0.001	95	226780	50.0	41.9	
22 1,1-Dichloroethene	96	2.723	2.724	-0.001	94	331212	50.0	44.0	
23 Acetone	43	2.746	2.746	0.000	99	735767	200.0	218.6	
25 Iodomethane	142	2.840	2.840	0.000	99	444558	50.0	42.2	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1174760	50.0	39.4	
28 Methyl acetate	43	2.963	2.967	-0.004	99	906488	100.0	113.5	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	871727	50.0	46.7	
30 Methylene Chloride	84	3.072	3.072	0.000	98	493906	50.0	48.4	
31 2-Methyl-2-propanol	59	3.121	3.125	-0.004	96	478423	500.0	546.8	
32 Acrylonitrile	53	3.230	3.230	0.000	99	2183657	500.0	557.0	
33 Methyl tert-butyl ether	73	3.252	3.256	-0.004	98	1331070	50.0	53.7	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	410382	50.0	45.7	
35 Hexane	57	3.451	3.455	-0.004	97	551811	50.0	43.5	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2442522	100.0	114.2	
39 1,1-Dichloroethane	63	3.571	3.575	-0.004	96	925215	50.0	49.2	
43 2-Butanone (MEK)	43	3.949	3.953	-0.004	99	1134368	200.0	231.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	483451	50.0	48.9	
46 2,2-Dichloropropane	77	3.979	3.983	-0.004	91	679546	50.0	51.1	
48 sec-Butyl Alcohol	45	4.062	4.066	-0.004	100	1098722	1200.0	1237.7	
50 Chlorobromomethane	128	4.144	4.148	-0.004	91	215126	50.0	51.7	
51 Tetrahydrofuran	42	4.155	4.156	-0.001	92	370310	100.0	115.7	
52 Chloroform	83	4.204	4.204	0.000	95	844834	50.0	50.6	
53 1,1,1-Trichloroethane	97	4.339	4.343	-0.004	97	634233	50.0	48.5	
54 Cyclohexane	56	4.399	4.399	0.000	96	766988	50.0	47.1	
55 1,1-Dichloropropene	75	4.452	4.455	-0.003	97	640373	50.0	48.5	
56 Carbon tetrachloride	117	4.455	4.459	-0.004	96	538486	50.0	48.2	
57 Isobutyl alcohol	41	4.474	4.474	0.000	93	496620	1250.0	1321.5	
58 Benzene	78	4.602	4.602	0.000	98	1930355	50.0	49.4	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	716185	50.0	53.5	
63 n-Heptane	43	4.789	4.789	0.000	97	594921	50.0	51.1	
65 Trichloroethene	95	5.085	5.085	0.000	95	441469	50.0	46.9	
66 2-Pentanone	43	5.190	5.190	0.000	98	1395414	160.0	177.4	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	596672	50.0	50.8	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	95	564163	50.0	51.8	
70 1,4-Dioxane	88	5.336	5.336	0.000	96	124030	1000.0	914.5	
71 Dibromomethane	93	5.355	5.359	-0.004	90	300660	50.0	51.3	
72 Dichlorobromomethane	83	5.482	5.483	-0.001	98	680634	50.0	53.1	
74 2-Chloroethyl vinyl ether	63	5.685	5.685	0.000	91	349309	50.0	53.6	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	853562	50.0	53.2	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	98	2402718	200.0	218.3	
77 Toluene	91	6.112	6.112	0.000	97	1988171	50.0	49.1	
78 trans-1,3-Dichloropropene	75	6.288	6.289	-0.001	93	784368	50.0	54.8	
79 Ethyl methacrylate	69	6.315	6.319	-0.004	93	657309	50.0	52.9	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	92	419884	50.0	52.5	
81 Tetrachloroethene	164	6.551	6.551	0.000	92	305251	50.0	47.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	95	809063	50.0	53.2	
83 2-Hexanone	43	6.630	6.630	0.000	99	1648591	200.0	224.0	
84 Chlorodibromomethane	129	6.798	6.798	0.000	91	470514	50.0	51.9	
86 Ethylene Dibromide	107	6.911	6.915	-0.004	99	432600	50.0	52.4	
87 1-Chlorohexane	91	7.308	7.308	0.000	92	477620	40.0	38.9	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1232594	50.0	48.3	
89 1,1,1,2-Tetrachloroethane	131	7.421	7.417	0.004	95	435040	50.0	50.5	
90 Ethylbenzene	106	7.424	7.424	0.000	99	662631	50.0	49.2	
91 m-Xylene & p-Xylene	106	7.544	7.544	0.000	0	816344	50.0	49.9	
92 o-Xylene	106	7.900	7.900	0.000	98	815653	50.0	51.6	
93 Styrene	104	7.915	7.915	0.000	95	1393259	50.0	53.1	
94 Bromoform	173	8.095	8.095	0.000	94	300155	50.0	51.2	
95 Isopropylbenzene	105	8.241	8.242	-0.001	97	1981742	50.0	50.1	
97 Cyclohexanone	55	8.335	8.335	0.000	96	1062300	1500.0	1965.2	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	615184	50.0	53.0	
99 Bromobenzene	156	8.553	8.553	0.000	97	493332	50.0	49.8	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	75	190665	50.0	54.3	
101 1,2,3-Trichloropropane	110	8.586	8.590	-0.004	87	165947	50.0	51.6	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	548340	50.0	50.2	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	486646	50.0	49.5	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	95	1673292	50.0	50.9	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	506088	50.0	49.7	
106 tert-Butylbenzene	119	9.119	9.119	0.000	95	1360508	50.0	50.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1756151	50.0	48.4	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	388428	50.0	51.4	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	96	913026	50.0	48.7	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1710255	50.0	47.6	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	947323	50.0	47.8	
114 n-Butylbenzene	91	9.895	9.891	0.004	98	1638714	50.0	48.9	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	879709	50.0	50.0	
116 1,2-Dibromo-3-Chloropropane	157	10.697	10.697	0.000	76	86425	50.0	47.3	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	93	423546	50.0	48.4	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	96	181313	50.0	44.0	
120 Naphthalene	128	11.788	11.788	0.000	98	988134	50.0	40.8	
121 1,2,3-Trichlorobenzene	180	12.013	12.013	0.000	94	247192	50.0	40.0	
S 143 1,3-Dichloropropene, Total	1				0		100.0	108.0	
S 142 Trihalomethanes, Total	1				0		200.0	206.8	
S 141 Xylenes, Total	106				0		100.0	101.5	
S 140 1,2-Dichloroethene, Total	1				0		100.0	94.6	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 23:28:07

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6789.D

Injection Date: 03-Aug-2023 17:14:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

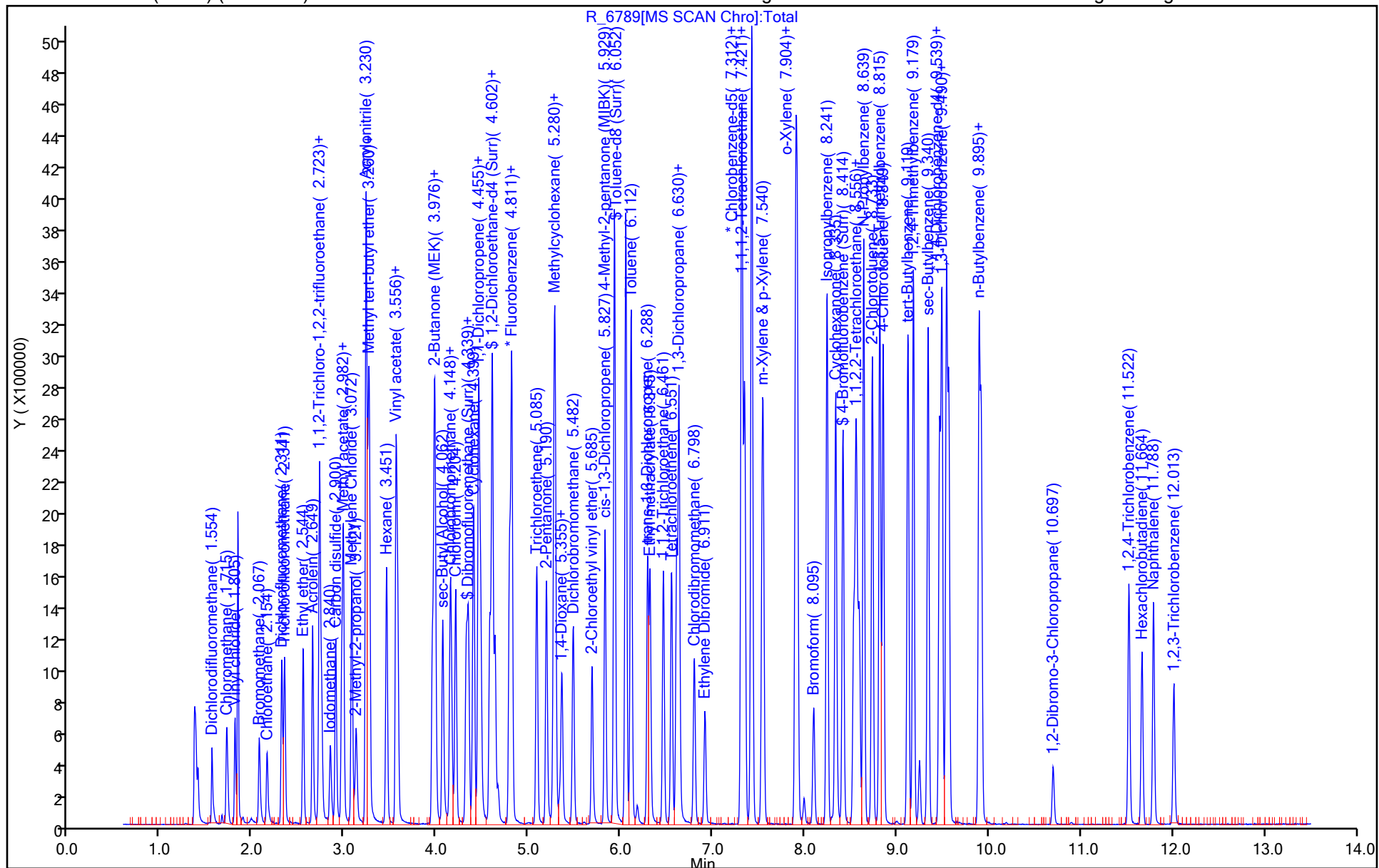
ALS Bottle#: 1

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6789.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Aug-2023 17:14:30 ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd m
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 23:28:00 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1611

First Level Reviewer: J6NB

Date: 03-Aug-2023 18:00:45

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.9	99.77
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.22
\$ 6 Toluene-d8 (Surr)	50.0	50.0	99.91
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.3	102.57

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-621775/7
 Matrix: Water Lab File ID: R_6790.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/03/2023 17:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621775 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	33.1		3.0	1.2
75-05-8	Acetonitrile	380		30	9.6
126-98-7	Methacrylonitrile	359		15	5.3
80-62-6	Methyl methacrylate	50.0		4.0	1.1
107-12-0	Propionitrile	288		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	108		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6790.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 03-Aug-2023 17:35:30 ALS Bottle#: 2 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcsd s
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 23:28:35 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1662

First Level Reviewer: rittsilpp

Date: 07-Aug-2023 13:47:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.815	-0.004	98	1949251	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	479291	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	98	718096	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	514483	50.0	50.2	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	650616	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	2062297	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	752019	50.0	54.1	
17 Ethanol	45	2.457	2.457	0.000	100	240607	1500.0	2573.1	
24 Isopropyl alcohol	45	2.836	2.832	0.004	98	169635	250.0	340.1	
27 Acetonitrile	41	2.945	2.945	0.000	100	441654	250.0	380.5	
38 Isopropyl ether	87	3.578	3.574	0.004	96	182594	25.0	26.8	
40 2-Chloro-1,3-butadiene	53	3.623	3.627	-0.004	93	423743	25.0	33.1	
41 Tert-butyl ethyl ether	59	3.829	3.833	-0.004	97	734653	25.0	31.1	
44 Ethyl acetate	43	3.968	3.968	0.000	99	564036	50.0	76.3	
47 Propionitrile	54	3.998	3.998	0.000	99	401516	250.0	287.6	
49 Methacrylonitrile	41	4.107	4.107	0.000	96	1977077	250.0	358.8	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	96	627573	25.0	29.1	
64 n-Butanol	56	4.965	4.969	-0.004	95	155869	625.0	616.6	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	119301	50.0	50.0	
73 2-Nitropropane	41	5.644	5.647	-0.003	98	155146	50.0	73.1	
96 cis-1,4-Dichloro-2-butene	53	8.294	8.298	-0.004	0	179974	50.0	62.2	
113 1,2,3-Trimethylbenzene	105	9.584	9.584	0.000	99	868169	25.0	26.3	
117 1,3,5-Trichlorobenzene	180	10.888	10.888	0.000	95	256012	25.0	22.0	
129 Ethyl acrylate	55		0.000				ND	ND	
127 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6790.D

Injection Date: 03-Aug-2023 17:35:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: LCSD

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

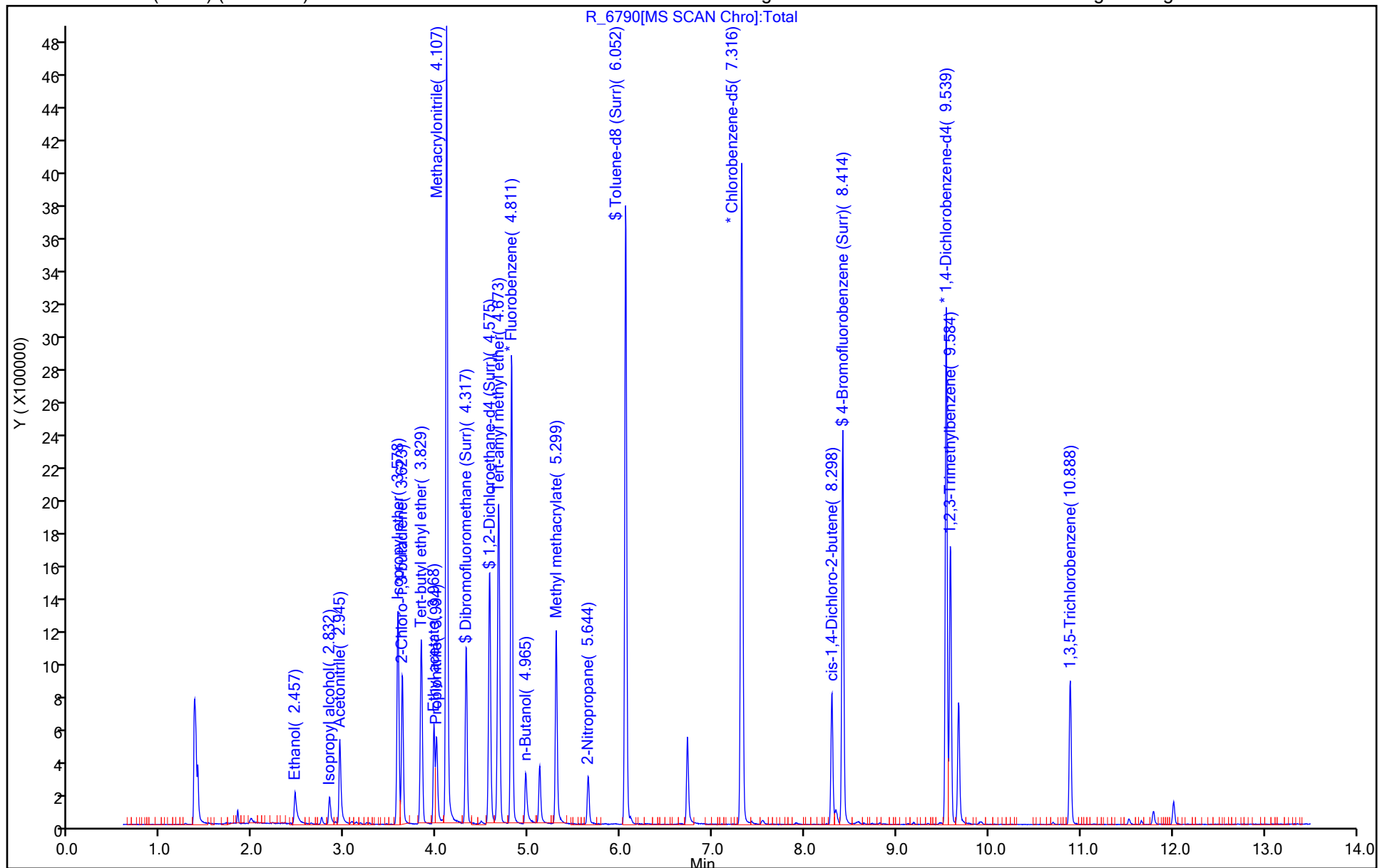
ALS Bottle#: 2

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6790.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Aug-2023 17:35:30 ALS Bottle#: 2 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd s
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 23:28:35 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1662

First Level Reviewer: rittisilpp

Date: 07-Aug-2023 13:47:44

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.2	100.46
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.28
\$ 6 Toluene-d8 (Surr)	50.0	50.0	99.91
\$ 7 4-Bromofluorobenzene (Surr)	50.0	54.1	108.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 280-621894/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6846.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 17:00</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621894</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	53.6		1.0	0.58
71-55-6	1,1,1-Trichloroethane	54.8		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	57.0		1.0	0.21
79-00-5	1,1,2-Trichloroethane	54.7		1.0	0.27
75-34-3	1,1-Dichloroethane	52.0		1.0	0.22
75-35-4	1,1-Dichloroethene	51.5		1.0	0.23
563-58-6	1,1-Dichloropropene	55.0		1.0	0.42
96-18-4	1,2,3-Trichloropropane	55.0		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	52.0		5.0	1.8
95-50-1	1,2-Dichlorobenzene	52.3		1.0	0.37
107-06-2	1,2-Dichloroethane	54.4		1.0	0.54
78-87-5	1,2-Dichloropropane	54.0		1.0	0.52
541-73-1	1,3-Dichlorobenzene	51.4		1.0	0.33
142-28-9	1,3-Dichloropropane	54.8		1.0	0.38
106-46-7	1,4-Dichlorobenzene	49.9		1.0	0.39
594-20-7	2,2-Dichloropropane	57.2		1.0	0.38
591-78-6	2-Hexanone	243		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	232		5.0	0.98
67-64-1	Acetone	217		15	6.6
71-43-2	Benzene	52.0		1.0	0.31
75-25-2	Bromoform	55.5		2.0	1.2
74-83-9	Bromomethane	36.5		5.0	2.4
75-15-0	Carbon disulfide	49.6		2.0	0.63
56-23-5	Carbon tetrachloride	56.1		1.0	0.57
108-90-7	Chlorobenzene	51.2		1.0	0.42
74-97-5	Chlorobromomethane	52.7		1.0	0.40
124-48-1	Chlorodibromomethane	53.9		2.0	0.62
75-00-3	Chloroethane	41.4		4.0	1.4
67-66-3	Chloroform	52.0		1.0	0.36
74-87-3	Chloromethane	36.1		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	50.2		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	53.7		2.0	0.63
74-95-3	Dibromomethane	53.7		1.0	0.34
75-27-4	Dichlorobromomethane	54.0		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 280-621894/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6846.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/04/2023 17:00</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621894</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	37.1		3.0	0.96
100-41-4	Ethylbenzene	52.4		1.0	0.30
74-88-4	Iodomethane	42.4		5.0	2.6
78-83-1	Isobutyl alcohol	1430		110	37
75-09-2	Methylene Chloride	48.7		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	52.7		2.0	0.36
95-47-6	o-Xylene	54.8		1.0	0.33
100-42-5	Styrene	56.4		1.0	0.36
127-18-4	Tetrachloroethene	53.1		1.0	0.40
108-88-3	Toluene	52.1		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	50.9		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	57.1		2.0	0.65
79-01-6	Trichloroethene	50.4		1.0	0.30
75-69-4	Trichlorofluoromethane	48.1		2.0	0.57
108-05-4	Vinyl acetate	118		3.0	0.94
75-01-4	Vinyl chloride	42.3		2.0	0.51
1330-20-7	Xylenes, Total	108		1.0	0.33
78-93-3	2-Butanone (MEK)	234		15	6.0
107-02-8	Acrolein	517		20	4.9
107-13-1	Acrylonitrile	558		20	4.5
106-93-4	1,2-Dibromoethane	53.4		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	50.8		1.0	0.58
107-05-1	Allyl chloride	51.6		2.0	0.17
97-63-2	Ethyl methacrylate	54.4		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	58.9		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	100		78-120
2037-26-5	Toluene-d8 (Surr)	99		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6846.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 04-Aug-2023 17:00:30 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcsd m
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 10:35:44 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

First Level Reviewer: J6NB

Date: 04-Aug-2023 17:38:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.811	0.001	99	1816823	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	88	457687	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.538	0.001	97	758214	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	474686	50.0	49.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	611964	50.0	53.6	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1959795	50.0	49.7	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	732522	50.0	49.9	
9 Dichlorodifluoromethane	85	1.554	1.550	0.004	99	322752	50.0	37.1	
10 Chloromethane	50	1.715	1.715	0.000	99	499773	50.0	36.1	
11 Vinyl chloride	62	1.805	1.805	0.000	97	469769	50.0	42.3	
13 Bromomethane	94	2.068	2.067	0.001	91	265113	50.0	36.5	
14 Chloroethane	64	2.154	2.154	0.000	99	296471	50.0	41.4	
15 Dichlorofluoromethane	67	2.315	2.311	0.004	97	776580	50.0	46.1	
16 Trichlorofluoromethane	101	2.345	2.345	0.000	98	586117	50.0	48.1	
18 Ethyl ether	59	2.547	2.547	0.000	97	399952	50.0	52.5	
20 Acrolein	56	2.649	2.649	0.000	99	661010	493.8	517.2	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	2.724	2.724	0.000	96	275444	50.0	54.7	
22 1,1-Dichloroethene	96	2.724	2.724	0.000	95	360954	50.0	51.5	
23 Acetone	43	2.746	2.746	0.000	99	679531	200.0	216.9	
25 Iodomethane	142	2.840	2.840	0.000	100	414888	50.0	42.4	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1375713	50.0	49.6	
28 Methyl acetate	43	2.964	2.963	0.001	99	809154	100.0	108.9	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	895233	50.0	51.6	
30 Methylene Chloride	84	3.072	3.076	-0.004	99	461950	50.0	48.7	
31 2-Methyl-2-propanol	59	3.121	3.121	0.000	95	469486	500.0	576.7	
32 Acrylonitrile	53	3.230	3.230	0.000	98	2035169	500.0	557.9	
33 Methyl tert-butyl ether	73	3.252	3.252	0.000	98	1249961	50.0	54.2	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	424737	50.0	50.9	
35 Hexane	57	3.451	3.454	-0.003	97	687923	50.0	57.8	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2357841	100.0	118.5	
39 1,1-Dichloroethane	63	3.571	3.574	-0.003	96	910375	50.0	52.0	
43 2-Butanone (MEK)	43	3.949	3.953	-0.004	99	1066754	200.0	233.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	462371	50.0	50.2	
46 2,2-Dichloropropane	77	3.979	3.983	-0.004	92	707382	50.0	57.2	
48 sec-Butyl Alcohol	45	4.062	4.062	0.000	99	1098451	1200.0	1328.9	
50 Chlorobromomethane	128	4.144	4.144	0.000	91	203922	50.0	52.7	
51 Tetrahydrofuran	42	4.156	4.155	0.001	93	355670	100.0	119.4	
52 Chloroform	83	4.204	4.204	0.000	95	807201	50.0	52.0	
53 1,1,1-Trichloroethane	97	4.339	4.339	0.000	98	666176	50.0	54.8	
54 Cyclohexane	56	4.396	4.399	-0.003	96	869950	50.0	57.4	
55 1,1-Dichloropropene	75	4.452	4.452	0.000	97	676218	50.0	55.0	
56 Carbon tetrachloride	117	4.456	4.459	-0.003	97	583723	50.0	56.1	
57 Isobutyl alcohol	41	4.474	4.474	0.000	94	501486	1250.0	1433.3	
58 Benzene	78	4.602	4.602	0.000	98	1890369	50.0	52.0	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	677901	50.0	54.4	
63 n-Heptane	43	4.789	4.789	0.000	96	648699	50.0	59.9	
65 Trichloroethene	95	5.082	5.085	-0.003	95	444912	50.0	50.4	
66 2-Pentanone	43	5.190	5.190	0.000	98	1347951	160.0	184.1	
67 Methylcyclohexane	55	5.273	5.273	0.000	95	635318	50.0	58.2	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	95	547541	50.0	54.0	
70 1,4-Dioxane	88	5.333	5.333	0.000	98	116417	1000.0	922.5	
71 Dibromomethane	93	5.359	5.359	0.000	88	292713	50.0	53.7	
72 Dichlorobromomethane	83	5.479	5.483	-0.003	98	643838	50.0	54.0	
74 2-Chloroethyl vinyl ether	63	5.685	5.689	-0.004	91	301037	50.0	49.6	
75 cis-1,3-Dichloropropene	75	5.828	5.827	0.001	92	808404	50.0	53.7	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2374169	200.0	231.8	
77 Toluene	91	6.112	6.112	0.000	97	1962984	50.0	52.1	
78 trans-1,3-Dichloropropene	75	6.289	6.292	-0.003	94	760327	50.0	57.1	
79 Ethyl methacrylate	69	6.315	6.315	0.000	94	634026	50.0	54.4	
80 1,1,2-Trichloroethane	97	6.461	6.465	-0.004	93	407059	50.0	54.7	
81 Tetrachloroethene	164	6.551	6.551	0.000	92	319435	50.0	53.1	
82 1,3-Dichloropropane	76	6.604	6.607	-0.003	96	782176	50.0	54.8	
83 2-Hexanone	43	6.630	6.630	0.000	99	1678348	200.0	242.8	
84 Chlorodibromomethane	129	6.795	6.798	-0.003	90	458537	50.0	53.9	
86 Ethylene Dibromide	107	6.911	6.914	-0.003	97	413967	50.0	53.4	
87 1-Chlorohexane	91	7.308	7.308	0.000	89	488935	40.0	42.5	
88 Chlorobenzene	112	7.346	7.346	0.000	93	1227081	50.0	51.2	
89 1,1,1,2-Tetrachloroethane	131	7.417	7.421	-0.004	94	433355	50.0	53.6	
90 Ethylbenzene	106	7.421	7.424	-0.003	99	662866	50.0	52.4	
91 m-Xylene & p-Xylene	106	7.541	7.541	0.001	0	807897	50.0	52.7	
92 o-Xylene	106	7.901	7.900	0.001	98	813084	50.0	54.8	
93 Styrene	104	7.916	7.915	0.001	94	1387008	50.0	56.4	
94 Bromoform	173	8.095	8.095	0.000	94	305587	50.0	55.5	
95 Isopropylbenzene	105	8.242	8.242	0.000	97	2002920	50.0	52.1	
97 Cyclohexanone	55	8.335	8.335	0.000	96	750213	1500.0	1481.9	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	93	643815	50.0	57.0	
99 Bromobenzene	156	8.553	8.556	-0.003	97	495122	50.0	51.4	
100 trans-1,4-Dichloro-2-butene	53	8.572	8.571	0.001	75	201387	50.0	58.9	
101 1,2,3-Trichloropropane	110	8.590	8.594	-0.004	86	171931	50.0	55.0	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	550323	50.0	51.8	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	494711	50.0	51.8	
104 1,3,5-Trimethylbenzene	105	8.815	8.811	0.004	94	1724505	50.0	54.0	
105 4-Chlorotoluene	126	8.853	8.849	0.004	98	523596	50.0	52.9	
106 tert-Butylbenzene	119	9.119	9.119	0.000	94	1386563	50.0	53.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1792929	50.0	50.8	
108 sec-Butylbenzene	134	9.340	9.336	0.004	95	395130	50.0	53.8	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	96	937523	50.0	51.4	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1772031	50.0	50.7	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	92	961768	50.0	49.9	
114 n-Butylbenzene	91	9.895	9.895	0.000	98	1705596	50.0	52.4	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	94	894217	50.0	52.3	
116 1,2-Dibromo-3-Chloropropane	157	10.701	10.701	0.000	78	92334	50.0	52.0	
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	94	431977	50.0	50.8	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	96	194048	50.0	48.4	
120 Naphthalene	128	11.788	11.788	0.000	98	1041879	50.0	44.3	
121 1,2,3-Trichlorobenzene	180	12.013	12.009	0.004	94	254297	50.0	42.2	
S 143 1,3-Dichloropropene, Total	1				0		100.0	110.8	
S 142 Trihalomethanes, Total	1				0		200.0	215.4	
S 141 Xylenes, Total	106				0		100.0	107.5	
S 140 1,2-Dichloroethene, Total	1				0		100.0	101.1	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6846.D

Injection Date: 04-Aug-2023 17:00:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

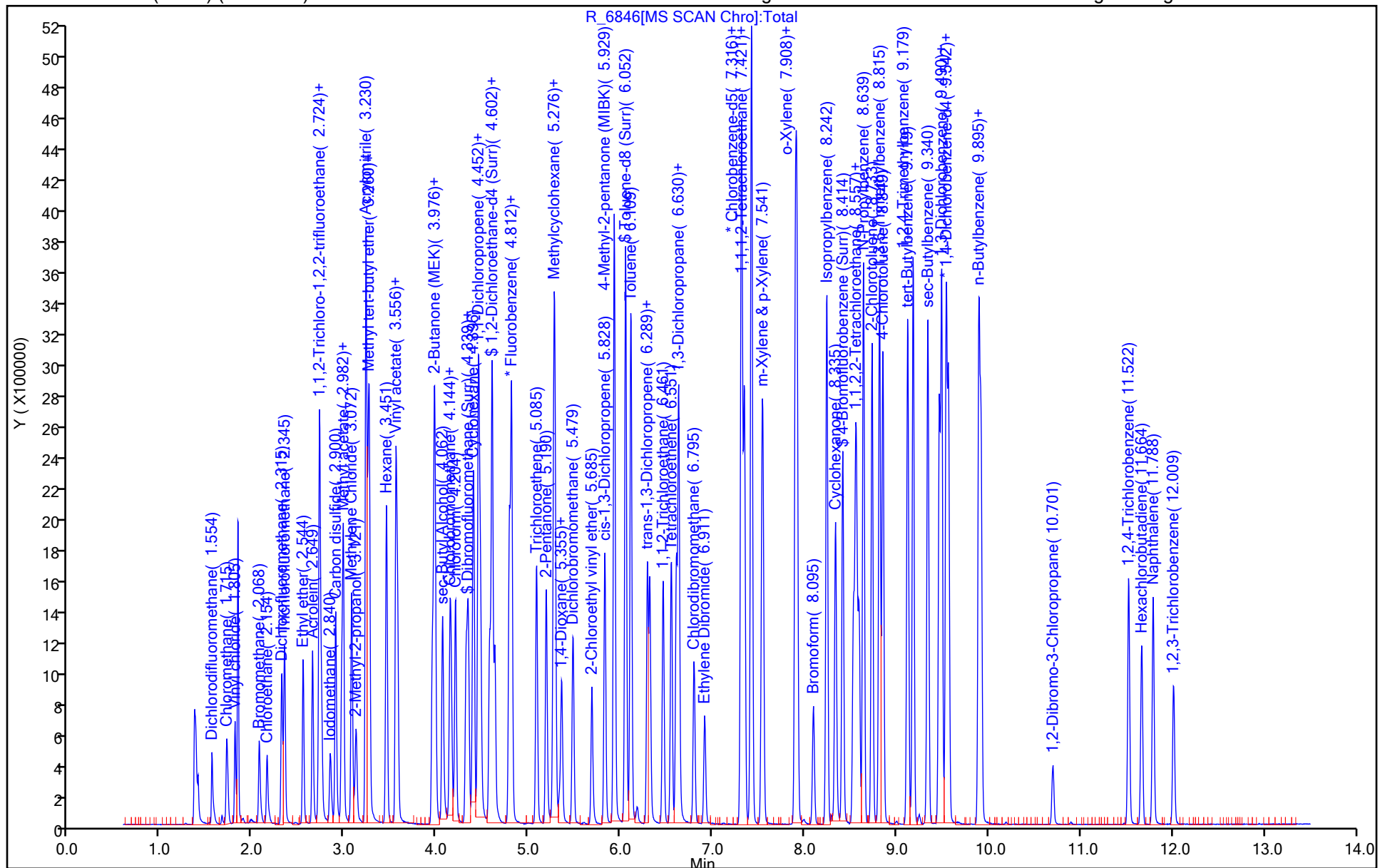
ALS Bottle#: 1

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6846.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 04-Aug-2023 17:00:30 ALS Bottle#: 1 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd m
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 05-Aug-2023 10:35:44 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1690

First Level Reviewer: J6NB

Date: 04-Aug-2023 17:38:57

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.7	99.45
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.6	107.25
\$ 6 Toluene-d8 (Surr)	50.0	49.7	99.43
\$ 7 4-Bromofluorobenzene (Surr)	50.0	49.9	99.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-621894/7
 Matrix: Water Lab File ID: R_6847.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2023 17:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621894 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	32.0		3.0	1.2
75-05-8	Acetonitrile	334		30	9.6
126-98-7	Methacrylonitrile	327		15	5.3
80-62-6	Methyl methacrylate	43.6		4.0	1.1
107-12-0	Propionitrile	256		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-127
460-00-4	4-Bromofluorobenzene (Surr)	109		78-120
2037-26-5	Toluene-d8 (Surr)	98		80-125
1868-53-7	Dibromofluoromethane (Surr)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6847.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 04-Aug-2023 17:21:30 ALS Bottle#: 2 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcsd s
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 10:35:44 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1690

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.811	0.001	98	1833341	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.319	7.316	0.003	90	451669	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.538	0.001	98	669208	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	487799	50.0	50.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	616826	50.0	53.6	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1902885	50.0	48.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	708743	50.0	54.7	
17 Ethanol	45	2.457	2.457	0.000	99	196852	1500.0	2230.9	
24 Isopropyl alcohol	45	2.832	2.836	-0.004	98	139600	250.0	297.6	
27 Acetonitrile	41	2.945	2.945	0.000	99	364615	250.0	334.0	
38 Isopropyl ether	87	3.578	3.578	0.000	94	157869	25.0	24.6	
40 2-Chloro-1,3-butadiene	53	3.623	3.627	-0.004	94	384926	25.0	32.0	
41 Tert-butyl ethyl ether	59	3.833	3.829	0.004	98	629711	25.0	28.3	
44 Ethyl acetate	43	3.968	3.968	0.000	99	472536	50.0	67.9	
47 Propionitrile	54	3.998	3.998	0.000	99	336425	250.0	256.2	
49 Methacrylonitrile	41	4.107	4.107	0.000	96	1695944	250.0	327.2	
61 Tert-amyl methyl ether	73	4.673	4.673	0.000	92	535565	25.0	26.4	
64 n-Butanol	56	4.965	4.969	-0.004	94	119275	625.0	507.8	
69 Methyl methacrylate	100	5.299	5.299	0.000	94	97851	50.0	43.6	
73 2-Nitropropane	41	5.644	5.647	-0.003	98	131975	50.0	66.1	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.294	0.004	0	147445	50.0	54.8	
113 1,2,3-Trimethylbenzene	105	9.587	9.583	0.004	98	756506	25.0	24.6	
117 1,3,5-Trichlorobenzene	180	10.892	10.888	0.004	95	226426	25.0	20.9	
129 Ethyl acrylate	55		0.000				ND	ND	
127 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6847.D

Injection Date: 04-Aug-2023 17:21:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: LCSD

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

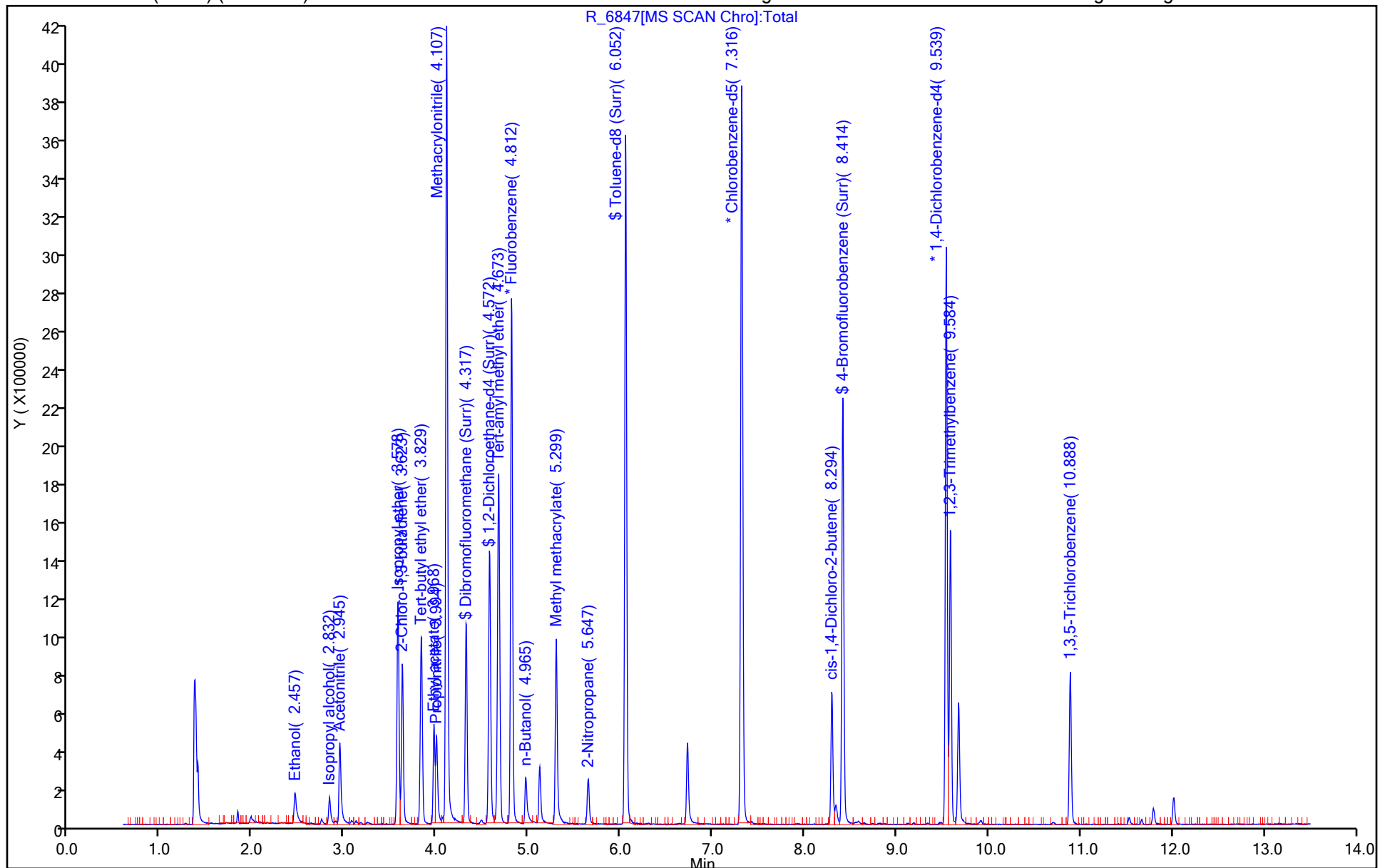
ALS Bottle#: 2

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\R_6847.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 04-Aug-2023 17:21:30 ALS Bottle#: 2 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd s
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230804-124210.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 05-Aug-2023 10:35:44 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1690

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.6	101.27
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.6	107.13
\$ 6 Toluene-d8 (Surr)	50.0	48.9	97.83
\$ 7 4-Bromofluorobenzene (Surr)	50.0	54.7	109.40

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCSD 280-621922/6</u>
Matrix: <u>Water</u>	Lab File ID: <u>MS1_2878.D</u>
Analysis Method: <u>8260D</u>	Date Collected: _____
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 19:01</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621922</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	44.7		1.0	0.58
71-55-6	1,1,1-Trichloroethane	48.2		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	49.4		1.0	0.21
79-00-5	1,1,2-Trichloroethane	46.9		1.0	0.27
75-34-3	1,1-Dichloroethane	47.6		1.0	0.22
75-35-4	1,1-Dichloroethene	44.4		1.0	0.23
563-58-6	1,1-Dichloropropene	45.5		1.0	0.42
96-18-4	1,2,3-Trichloropropane	44.6		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	40.2		5.0	1.8
95-50-1	1,2-Dichlorobenzene	45.3		1.0	0.37
107-06-2	1,2-Dichloroethane	46.1		1.0	0.54
78-87-5	1,2-Dichloropropane	45.2		1.0	0.52
541-73-1	1,3-Dichlorobenzene	47.6		1.0	0.33
142-28-9	1,3-Dichloropropane	49.8		1.0	0.38
106-46-7	1,4-Dichlorobenzene	45.4		1.0	0.39
594-20-7	2,2-Dichloropropane	48.4		1.0	0.38
591-78-6	2-Hexanone	188		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	193		5.0	0.98
67-64-1	Acetone	190		15	6.6
71-43-2	Benzene	44.7		1.0	0.31
75-25-2	Bromoform	40.1		2.0	1.2
74-83-9	Bromomethane	46.1		5.0	2.4
75-15-0	Carbon disulfide	41.9		2.0	0.63
56-23-5	Carbon tetrachloride	43.1		1.0	0.57
108-90-7	Chlorobenzene	45.8		1.0	0.42
74-97-5	Chlorobromomethane	48.3		1.0	0.40
124-48-1	Chlorodibromomethane	43.7		2.0	0.62
75-00-3	Chloroethane	48.4		4.0	1.4
67-66-3	Chloroform	49.7		1.0	0.36
74-87-3	Chloromethane	48.0		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	48.2		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	46.8		2.0	0.63
74-95-3	Dibromomethane	45.8		1.0	0.34
75-27-4	Dichlorobromomethane	44.8		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCSD 280-621922/6

Matrix: Water Lab File ID: MS1_2878.D

Analysis Method: 8260D Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 08/04/2023 19:01

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)

Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____

% Moisture: _____ % Solids: _____ Level: (low/med) Low

Analysis Batch No.: 621922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	46.6		3.0	0.96
100-41-4	Ethylbenzene	45.1		1.0	0.30
74-88-4	Iodomethane	48.2		5.0	2.6
78-83-1	Isobutyl alcohol	1170		110	37
75-09-2	Methylene Chloride	49.6		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	47.8		2.0	0.36
95-47-6	o-Xylene	45.2		1.0	0.33
100-42-5	Styrene	46.1		1.0	0.36
127-18-4	Tetrachloroethene	44.5		1.0	0.40
108-88-3	Toluene	47.1		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	47.3		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	45.4		2.0	0.65
79-01-6	Trichloroethene	47.9		1.0	0.30
75-69-4	Trichlorofluoromethane	46.4		2.0	0.57
108-05-4	Vinyl acetate	127		3.0	0.94
75-01-4	Vinyl chloride	48.2		2.0	0.51
1330-20-7	Xylenes, Total	93.0		1.0	0.33
78-93-3	2-Butanone (MEK)	187		15	6.0
107-02-8	Acrolein	450		20	4.9
107-13-1	Acrylonitrile	467		20	4.5
106-93-4	1,2-Dibromoethane	45.6		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	45.7		1.0	0.58
107-05-1	Allyl chloride	48.9		2.0	0.17
97-63-2	Ethyl methacrylate	46.6		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	44.7		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-127
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
2037-26-5	Toluene-d8 (Surr)	102		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2878.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 04-Aug-2023 19:01:30 ALS Bottle#: 3 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcsd
 Operator ID: wickham Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 00:17:48 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1601

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1449606	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	88	352435	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.045	11.045	0.000	97	553567	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	92	356682	50.0	49.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.766	5.752	0.014	0	465806	50.0	51.5	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1471715	50.0	50.8	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	83	559437	50.0	50.7	
9 Dichlorodifluoromethane	85	1.814	1.814	0.000	99	262799	50.0	46.6	
10 Chloromethane	50	2.023	2.023	0.000	99	322466	50.0	48.0	
11 Vinyl chloride	62	2.149	2.149	0.000	98	296944	50.0	48.2	
13 Bromomethane	94	2.498	2.470	0.028	91	184910	50.0	46.1	
14 Chloroethane	64	2.624	2.610	0.014	100	189023	50.0	48.4	
15 Dichlorofluoromethane	67	2.861	2.847	0.014	97	445796	50.0	48.8	
16 Trichlorofluoromethane	101	2.889	2.889	0.000	98	361418	50.0	46.4	
18 Ethyl ether	59	3.182	3.168	0.014	93	241844	50.0	45.9	
20 Acrolein	56	3.322	3.322	0.000	99	422992	493.8	450.1	
22 1,1-Dichloroethene	96	3.420	3.406	0.014	98	228696	50.0	44.4	
21 1,1,2-Trichloro-1,2,2-trifluoro	151	3.420	3.420	0.000	93	172796	50.0	49.0	
23 Acetone	43	3.448	3.462	-0.014	99	412746	200.0	189.6	
24 Iodomethane	142	3.559	3.559	0.000	99	278596	50.0	48.2	
26 Carbon disulfide	76	3.629	3.629	0.000	100	745377	50.0	41.9	
28 Methyl acetate	43	3.755	3.755	0.000	98	488588	100.0	91.5	
29 3-Chloro-1-propene	41	3.769	3.769	0.000	89	451614	50.0	48.9	
30 Methylene Chloride	84	3.895	3.895	-0.001	93	287193	50.0	49.6	
31 2-Methyl-2-propanol	59	3.964	3.978	-0.014	99	338129	500.0	468.4	
32 Acrylonitrile	53	4.104	4.104	0.000	97	1263262	500.0	467.1	
33 Methyl tert-butyl ether	73	4.132	4.132	0.000	97	831810	50.0	49.5	
34 trans-1,2-Dichloroethene	96	4.146	4.132	0.014	97	261822	50.0	47.3	
36 Hexane	57	4.383	4.383	0.000	95	316126	50.0	48.5	
38 Vinyl acetate	43	4.523	4.523	0.000	97	1285776	100.0	127.2	
39 1,1-Dichloroethane	63	4.537	4.537	0.000	96	512893	50.0	47.6	
44 2-Butanone (MEK)	43	5.012	5.012	0.000	100	627427	200.0	186.8	
46 2,2-Dichloropropane	77	5.040	5.040	0.000	90	429387	50.0	48.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
45 cis-1,2-Dichloroethene	96	5.040	5.040	0.000	84	296024	50.0	48.2	
49 sec-Butyl Alcohol	45	5.165	5.165	0.000	99	654088	1200.0	1136.7	
52 Tetrahydrofuran	42	5.249	5.249	0.000	88	203383	100.0	90.9	
51 Chlorobromomethane	128	5.249	5.249	0.000	98	118736	50.0	48.3	
53 Chloroform	83	5.319	5.319	0.000	94	483559	50.0	49.7	
54 1,1,1-Trichloroethane	97	5.473	5.473	0.000	98	403864	50.0	48.2	
57 Cyclohexane	56	5.543	5.543	0.000	93	464988	50.0	47.4	
58 1,1-Dichloropropene	75	5.612	5.612	0.000	93	380859	50.0	45.5	
59 Carbon tetrachloride	117	5.612	5.612	0.000	84	310406	50.0	43.1	
60 Isobutyl alcohol	41	5.654	5.668	-0.014	94	277553	1250.0	1166.6	
61 Benzene	78	5.794	5.780	0.014	97	1155529	50.0	44.7	
62 1,2-Dichloroethane	62	5.822	5.822	0.000	98	396328	50.0	46.1	
64 n-Heptane	43	6.003	6.003	0.000	95	270646	50.0	46.2	
66 Trichloroethene	95	6.353	6.353	0.000	98	278607	50.0	47.9	
67 2-Pentanone	43	6.478	6.478	0.000	99	760637	160.0	155.7	
68 Methylcyclohexane	55	6.562	6.548	0.014	92	326694	50.0	50.0	
69 1,2-Dichloropropane	63	6.576	6.576	0.000	94	295001	50.0	45.2	
71 1,4-Dioxane	88	6.632	6.632	0.000	95	86367	1000.0	893.7	
72 Dibromomethane	93	6.660	6.660	0.000	95	167945	50.0	45.8	
73 Dichlorobromomethane	83	6.799	6.800	-0.001	99	356824	50.0	44.8	
75 2-Chloroethyl vinyl ether	63	7.023	7.023	0.000	93	144813	50.0	46.9	
76 cis-1,3-Dichloropropene	75	7.177	7.177	0.000	93	469593	50.0	46.8	
79 4-Methyl-2-pentanone (MIBK)	43	7.302	7.302	0.000	98	1234162	200.0	193.0	
80 Toluene	91	7.484	7.484	0.000	97	1199504	50.0	47.1	
82 trans-1,3-Dichloropropene	75	7.679	7.679	0.000	96	432500	50.0	45.4	
84 Ethyl methacrylate	69	7.707	7.707	0.000	91	382593	50.0	46.6	
86 1,1,2-Trichloroethane	97	7.861	7.861	0.000	92	240815	50.0	46.9	
89 Tetrachloroethene	164	7.959	7.959	0.000	96	198340	50.0	44.5	
90 1,3-Dichloropropane	76	8.015	8.015	0.000	97	457463	50.0	49.8	
91 2-Hexanone	43	8.042	8.043	0.000	98	876498	200.0	187.8	
93 Chlorodibromomethane	129	8.224	8.224	0.000	90	235520	50.0	43.7	
95 Ethylene Dibromide	107	8.350	8.350	0.000	100	249574	50.0	45.6	
96 1-Chlorohexane	91	8.755	8.755	0.000	98	291526	40.0	40.9	
97 Chlorobenzene	112	8.797	8.797	0.000	92	740376	50.0	45.8	
98 Ethylbenzene	106	8.880	8.880	0.000	99	403977	50.0	45.1	
99 1,1,1,2-Tetrachloroethane	131	8.880	8.880	0.000	43	245510	50.0	44.7	
100 m-Xylene & p-Xylene	106	9.006	9.006	0.000	0	508848	50.0	47.8	
101 o-Xylene	106	9.369	9.369	0.000	97	498677	50.0	45.2	
103 Styrene	104	9.397	9.383	0.014	95	857406	50.0	46.1	
104 Bromoform	173	9.579	9.579	0.000	94	153589	50.0	40.1	
105 Isopropylbenzene	105	9.718	9.718	0.000	97	1231407	50.0	45.8	
107 Cyclohexanone	55	9.830	9.830	0.000	95	594655	1500.0	1375.3	
108 1,1,2,2-Tetrachloroethane	83	10.026	10.026	0.000	94	342082	50.0	49.4	
109 Bromobenzene	156	10.054	10.054	0.000	97	299776	50.0	44.9	
110 trans-1,4-Dichloro-2-butene	53	10.054	10.054	0.000	90	105472	50.0	44.7	
111 1,2,3-Trichloropropane	110	10.082	10.082	0.000	85	102468	50.0	44.6	
112 N-Propylbenzene	120	10.137	10.137	0.000	99	326677	50.0	44.7	
113 2-Chlorotoluene	126	10.235	10.235	0.000	96	292206	50.0	45.5	
114 1,3,5-Trimethylbenzene	105	10.305	10.305	0.000	94	1024797	50.0	45.1	
115 4-Chlorotoluene	126	10.347	10.347	0.000	99	306228	50.0	48.5	
116 tert-Butylbenzene	119	10.626	10.626	0.000	94	807968	50.0	47.6	
117 1,2,4-Trimethylbenzene	105	10.682	10.682	0.000	98	1067638	50.0	47.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
118 sec-Butylbenzene	134	10.850	10.850	0.000	95	225223	50.0	45.4	
119 1,3-Dichlorobenzene	146	10.975	10.975	0.000	98	551096	50.0	47.6	
120 4-Isopropyltoluene	119	10.989	10.989	0.000	97	999711	50.0	48.0	
121 1,4-Dichlorobenzene	146	11.073	11.073	0.000	96	568434	50.0	45.4	
124 n-Butylbenzene	91	11.408	11.408	0.000	98	882543	50.0	49.4	
125 1,2-Dichlorobenzene	146	11.436	11.436	0.000	96	527933	50.0	45.3	
126 1,2-Dibromo-3-Chloropropane	157	12.232	12.232	0.000	83	65483	50.0	40.2	
128 1,2,4-Trichlorobenzene	180	13.056	13.056	0.000	94	295783	50.0	45.7	
129 Hexachlorobutadiene	225	13.196	13.196	0.000	97	106231	50.0	41.0	
130 Naphthalene	128	13.336	13.336	0.000	97	888162	50.0	44.7	
132 1,2,3-Trichlorobenzene	180	13.559	13.559	0.000	95	249933	50.0	42.2	
S 147 1,2-Dichloroethene, Total (URS)	95				0		100.0	95.5	
S 154 1,3-Dichloropropene, Total	1				0		100.0	92.2	
S 153 1,2-Dichloroethene, Total	1				0		100.0	95.5	
S 152 Trihalomethanes, Total	1				0		200.0	178.3	
S 150 Xylenes, Total (URS)	1				0		100.0	93.0	
S 148 Xylenes, Total	106				0		100.0	93.0	

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00161

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 00:17:53

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2878.D

Injection Date: 04-Aug-2023 19:01:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: LCSD

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

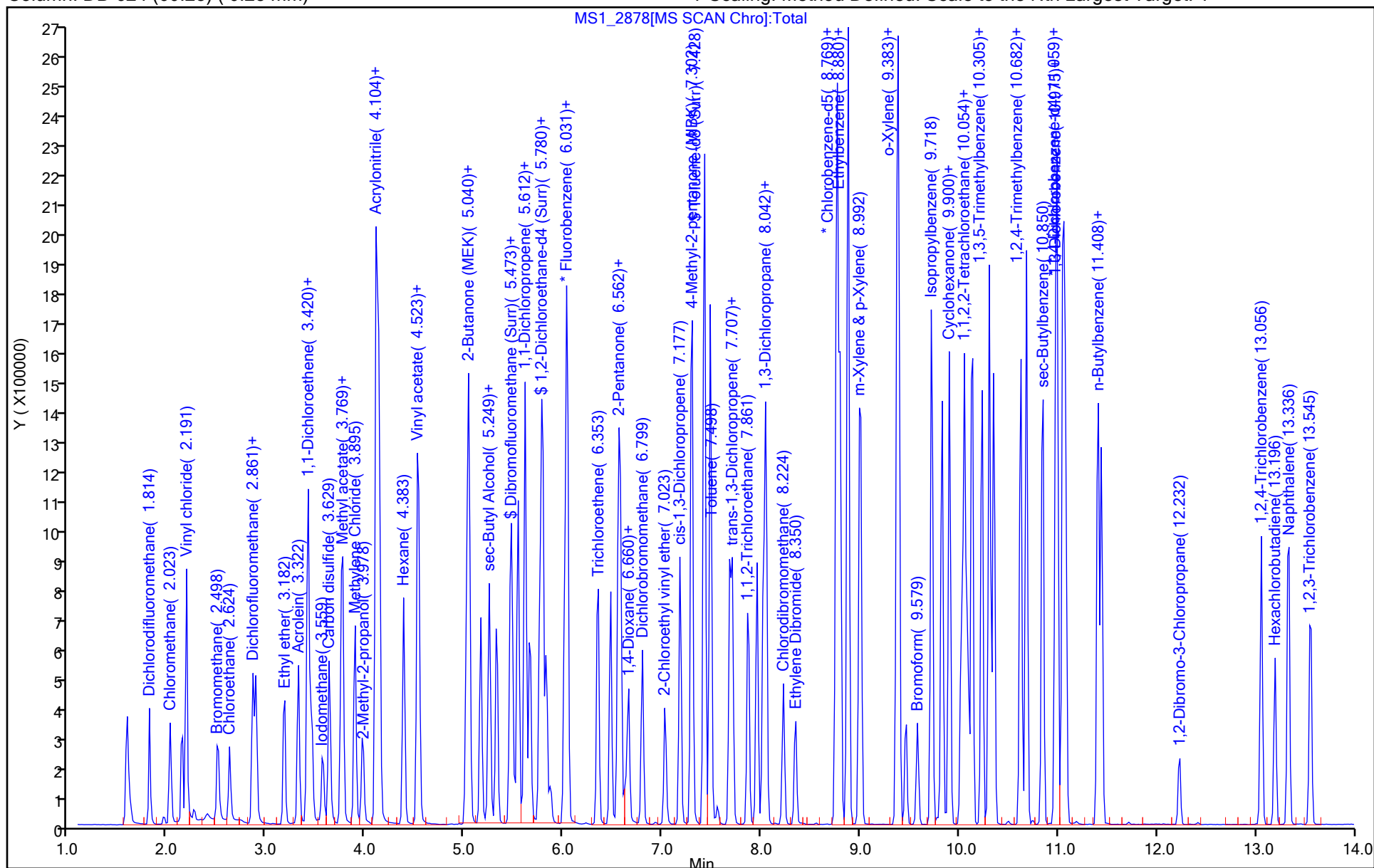
ALS Bottle#: 3

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\VMS1_2878.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 04-Aug-2023 19:01:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd
Operator ID: wickhamt Instrument ID: VMS_MS1
Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 05-Aug-2023 00:17:48 Calib Date: 01-Aug-2023 12:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.7	99.47
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	51.5	103.10
\$ 6 Toluene-d8 (Surr)	50.0	50.8	101.52
\$ 7 4-Bromofluorobenzene (Surr)	50.0	50.7	101.46

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-621922/7
 Matrix: Water Lab File ID: MS1_2879.D
 Analysis Method: 8260D Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 08/04/2023 19:22
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 Purge Volume: 5.0 (mL) Heated Purge: (Y/N) N pH: _____
 % Moisture: _____ % Solids: _____ Level: (low/med) Low
 Analysis Batch No.: 621922 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
126-99-8	Chloroprene	25.7		3.0	1.2
75-05-8	Acetonitrile	212		30	9.6
126-98-7	Methacrylonitrile	214		15	5.3
80-62-6	Methyl methacrylate	42.6		4.0	1.1
107-12-0	Propionitrile	208		20	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	99		80-125
1868-53-7	Dibromofluoromethane (Surr)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2879.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 04-Aug-2023 19:22:30 ALS Bottle#: 4 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcsd s
 Operator ID: wickham Instrument ID: VMS_MS1
 Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 05-Aug-2023 00:05:07 Calib Date: 01-Aug-2023 12:42:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\MS1_2684.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1601

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	6.031	6.031	0.000	98	1359095	50.0	50.0	
* 2 Chlorobenzene-d5	119	8.769	8.769	0.000	87	342337	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	11.059	11.045	0.014	97	537808	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	5.459	5.459	0.000	92	339704	50.0	50.5	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.752	5.752	0.000	0	445974	50.0	52.6	
\$ 6 Toluene-d8 (Surr)	98	7.428	7.428	0.000	93	1395311	50.0	49.5	
\$ 7 4-Bromofluorobenzene (Surr)	95	9.900	9.900	0.000	83	551409	50.0	51.5	
17 Ethanol	45	3.085	3.084	0.001	99	133904	1500.0	1402.0	
25 Isopropyl alcohol	45	3.587	3.587	0.000	98	98596	250.0	215.4	
27 Acetonitrile	41	3.727	3.727	0.000	99	231151	250.0	212.4	
40 Isopropyl ether	87	4.551	4.551	0.000	94	101302	25.0	22.7	
41 2-Chloro-1,3-butadiene	53	4.593	4.593	0.000	93	218344	25.0	25.7	
43 Tert-butyl ethyl ether	59	4.872	4.872	0.000	99	384736	25.0	23.0	
47 Ethyl acetate	43	5.040	5.040	0.000	100	318282	50.0	47.8	
48 Propionitrile	54	5.082	5.082	0.000	99	228556	250.0	208.2	
50 Methacrylonitrile	41	5.207	5.207	0.000	94	913599	250.0	214.4	
63 Tert-amyl methyl ether	73	5.878	5.878	0.000	89	335425	25.0	21.7	
65 n-Butanol	56	6.227	6.227	0.000	90	89138	625.0	544.3	
70 Methyl methacrylate	100	6.590	6.590	0.000	92	73395	50.0	42.6	
74 2-Nitropropane	41	6.995	6.981	0.014	98	76766	50.0	52.3	
106 cis-1,4-Dichloro-2-butene	53	9.774	9.774	0.000	0	87642	50.0	43.8	
122 1,2,3-Trimethylbenzene	105	11.101	11.101	0.000	99	497110	25.0	22.1	
127 1,3,5-Trichlorobenzene	180	12.414	12.414	0.000	97	147361	25.0	20.1	
142 Ethyl acrylate	55		0.000				ND	ND	
135 t-Amyl alcohol	1		0.000				ND	ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

MV-Supp A_00083

Amount Added: 25.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 05-Aug-2023 00:10:18

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\MS1_2879.D

Injection Date: 04-Aug-2023 19:22:30

Instrument ID: VMS_MS1

Operator ID: wickhamt

Lims ID: LCSD

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

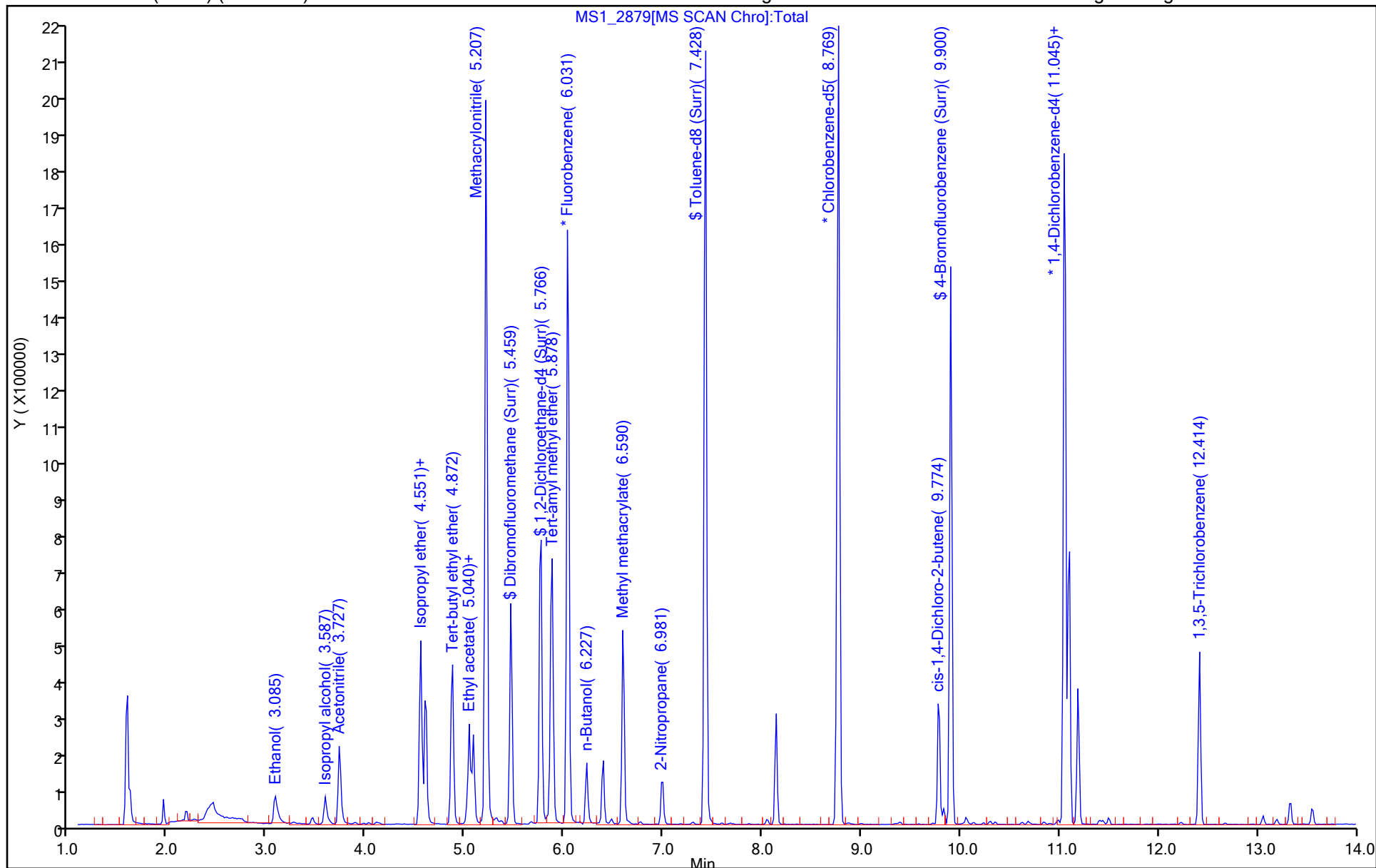
ALS Bottle#: 4

Method: AQ_VMS1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\VMS1_2879.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 04-Aug-2023 19:22:30 ALS Bottle#: 4 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: lcsd s
Operator ID: wickhamt Instrument ID: VMS_MS1
Method: \\chromfs\Denver\ChromData\VMS_MS1\20230804-124217.b\AQ_VMS1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 05-Aug-2023 00:05:07 Calib Date: 01-Aug-2023 12:42:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_MS1\20230801-124058.b\VMS1_2684.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1601

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.5	101.05
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.6	105.28
\$ 6 Toluene-d8 (Surr)	50.0	49.5	99.09
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.5	102.94

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8048P-20230721 MS</u>	Lab Sample ID: <u>280-179478-4 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6808.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 12:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 00:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	48.4		1.0	0.58
71-55-6	1,1,1-Trichloroethane	51.6		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	50.8		1.0	0.21
79-00-5	1,1,2-Trichloroethane	49.6		1.0	0.27
75-34-3	1,1-Dichloroethane	48.7		1.0	0.22
75-35-4	1,1-Dichloroethene	45.9		1.0	0.23
563-58-6	1,1-Dichloropropene	50.7		1.0	0.42
96-18-4	1,2,3-Trichloropropane	48.6		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	42.5		5.0	1.8
95-50-1	1,2-Dichlorobenzene	48.5		1.0	0.37
107-06-2	1,2-Dichloroethane	51.0		1.0	0.54
78-87-5	1,2-Dichloropropane	49.7		1.0	0.52
541-73-1	1,3-Dichlorobenzene	47.3		1.0	0.33
142-28-9	1,3-Dichloropropane	50.7		1.0	0.38
106-46-7	1,4-Dichlorobenzene	46.2		1.0	0.39
594-20-7	2,2-Dichloropropane	49.3		1.0	0.38
591-78-6	2-Hexanone	203		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	200		5.0	0.98
67-64-1	Acetone	181		15	6.6
71-43-2	Benzene	48.6		1.0	0.31
75-25-2	Bromoform	48.1		2.0	1.2
74-83-9	Bromomethane	35.0		5.0	2.4
75-15-0	Carbon disulfide	40.9		2.0	0.63
56-23-5	Carbon tetrachloride	52.3		1.0	0.57
108-90-7	Chlorobenzene	46.8		1.0	0.42
74-97-5	Chlorobromomethane	49.4		1.0	0.40
124-48-1	Chlorodibromomethane	49.4		2.0	0.62
75-00-3	Chloroethane	40.7		4.0	1.4
67-66-3	Chloroform	50.1		1.0	0.36
74-87-3	Chloromethane	36.9		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	47.4		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	48.6		2.0	0.63
74-95-3	Dibromomethane	48.9		1.0	0.34
75-27-4	Dichlorobromomethane	51.0		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8048P-20230721 MS</u>	Lab Sample ID: <u>280-179478-4 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6808.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 12:20</u>
Sample wt/vol: <u>5(mL)</u>	Date Analyzed: <u>08/04/2023 00:03</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	33.7		3.0	0.96
100-41-4	Ethylbenzene	47.7		1.0	0.30
74-88-4	Iodomethane	38.3		5.0	2.6
78-83-1	Isobutyl alcohol	1200		110	37
75-09-2	Methylene Chloride	45.5		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	48.2		2.0	0.36
95-47-6	o-Xylene	49.9		1.0	0.33
100-42-5	Styrene	51.1		1.0	0.36
127-18-4	Tetrachloroethene	48.6		1.0	0.40
108-88-3	Toluene	47.8		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	46.0		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	50.2		2.0	0.65
79-01-6	Trichloroethene	49.8		1.0	0.30
75-69-4	Trichlorofluoromethane	43.6		2.0	0.57
108-05-4	Vinyl acetate	102		3.0	0.94
75-01-4	Vinyl chloride	39.6		2.0	0.51
1330-20-7	Xylenes, Total	98.1		1.0	0.33
78-93-3	2-Butanone (MEK)	210		15	6.0
107-02-8	Acrolein	504		20	4.9
107-13-1	Acrylonitrile	515		20	4.5
106-93-4	1,2-Dibromoethane	49.0		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	42.1		1.0	0.58
107-05-1	Allyl chloride	45.5		2.0	0.17
97-63-2	Ethyl methacrylate	47.9		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	50.1		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		70-127
460-00-4	4-Bromofluorobenzene (Surr)	103		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	99		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6808.D
 Lims ID: 280-179478-B-4 MS
 Client ID: RW-8048P-20230721
 Sample Type: MS
 Inject. Date: 04-Aug-2023 00:03:30 ALS Bottle#: 20 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-B-4 MS
 Misc. Info.: 280-0124173-027
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 10:59:07 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1676

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.812	4.815	-0.003	98	1828579	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	455214	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.539	9.539	0.000	97	725506	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	476824	50.0	49.6	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.576	4.575	0.001	0	609507	50.0	53.1	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1958768	50.0	50.0	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	84	720282	50.0	51.3	
\$ 8 BFB	95	8.414	8.414	0.000	83	720282		NR	
9 Dichlorodifluoromethane	85	1.550	1.554	-0.004	99	294849	50.0	33.7	
10 Chloromethane	50	1.715	1.715	0.000	99	513234	50.0	36.9	
11 Vinyl chloride	62	1.802	1.801	0.001	98	442888	50.0	39.6	
13 Bromomethane	94	2.068	2.068	0.000	92	256098	50.0	35.0	
12 Ethylene oxide	43	2.113	2.075	0.038	60	2034		5.42	
14 Chloroethane	64	2.154	2.150	0.004	99	293116	50.0	40.7	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	752793	50.0	44.4	
16 Trichlorofluoromethane	101	2.341	2.341	0.000	98	534316	50.0	43.6	
17 Ethanol	45		2.457					ND	
18 Ethyl ether	59	2.544	2.547	-0.003	97	373119	50.0	48.6	
19 Propene oxide	58	2.641	2.630	0.011	20	595		0.4284	
20 Acrolein	56	2.649	2.649	0.000	99	648890	493.8	504.5	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.724	2.724	0.000	96	238399	50.0	47.0	
22 1,1-Dichloroethene	96	2.724	2.724	0.000	93	323835	50.0	45.9	
23 Acetone	43	2.746	2.746	0.000	100	577283	200.0	181.4	
24 Isopropyl alcohol	45	2.836	2.832	0.004	28	28627		61.2	
25 Iodomethane	142	2.840	2.840	0.000	100	377499	50.0	38.3	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1143231	50.0	40.9	
27 Acetonitrile	41		2.945					ND	
28 Methyl acetate	43	2.964	2.967	-0.003	99	755383	100.0	101.0	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	795454	50.0	45.5	
30 Methylene Chloride	84	3.076	3.072	0.004	99	434737	50.0	45.5	
31 2-Methyl-2-propanol	59	3.121	3.125	-0.004	95	374139	500.0	456.7	
32 Acrylonitrile	53	3.230	3.230	0.000	99	1891069	500.0	515.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	3.256	3.256	0.000	97	1142065	50.0	49.2	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	387082	50.0	46.0	
35 Hexane	57	3.455	3.455	0.000	97	511725	50.0	43.3	
36 Chlorotrifluoroethene	116		3.531					ND	
37 Vinyl acetate	43	3.556	3.556	0.000	97	2033663	100.0	101.7	
38 Isopropyl ether	87	3.567	3.574	-0.007	30	12929		2.02	
39 1,1-Dichloroethane	63	3.571	3.575	-0.004	96	859020	50.0	48.7	
40 2-Chloro-1,3-butadiene	53	3.623	3.627	-0.004	88	6450		0.5374	
41 Tert-butyl ethyl ether	59	3.833	3.833	0.000	54	7792		0.3515	
42 2-Chloro-1,1,1-Trifluoroethane	118		3.951					ND	
43 2-Butanone (MEK)	43	3.949	3.953	-0.004	99	966317	200.0	210.4	
44 Ethyl acetate	43		3.968					ND	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	439123	50.0	47.4	
46 2,2-Dichloropropane	77	3.979	3.983	-0.004	91	613294	50.0	49.3	
47 Propionitrile	54	4.006	3.998	0.008	31	3812		2.91	
48 sec-Butyl Alcohol	45	4.062	4.066	-0.004	99	880233	1200.0	1060.7	
49 Methacrylonitrile	41	4.103	4.107	-0.004	74	12270		2.37	
50 Chlorobromomethane	128	4.144	4.148	-0.004	91	192482	50.0	49.4	
51 Tetrahydrofuran	42	4.156	4.156	0.000	92	313487	100.0	104.6	
52 Chloroform	83	4.204	4.204	0.000	95	782506	50.0	50.1	
53 1,1,1-Trichloroethane	97	4.339	4.343	-0.004	97	631759	50.0	51.6	
54 Cyclohexane	56	4.399	4.399	0.000	96	777233	50.0	51.0	
55 1,1-Dichloropropene	75	4.452	4.455	-0.003	95	627305	50.0	50.7	
56 Carbon tetrachloride	117	4.456	4.459	-0.003	96	547185	50.0	52.3	
57 Isobutyl alcohol	41	4.474	4.474	0.000	93	423667	1250.0	1204.8	
58 Benzene	78	4.602	4.602	0.000	98	1780323	50.0	48.6	
59 1,2-Dichloroethane	62	4.632	4.632	0.000	97	639765	50.0	51.0	
61 Tert-amyl methyl ether	73	4.677	4.673	0.004	68	9623		0.4749	
60 1,2-Dichloro-1,1,2-trifluoroethane	117		4.678					ND	
62 1,1,1-Trifluoro-2,2-dichloroethane	83		4.706					ND	
63 n-Heptane	43	4.789	4.789	0.000	98	526787	50.0	48.3	
64 n-Butanol	56		4.969					ND	
65 Trichloroethene	95	5.085	5.085	0.000	94	437612	50.0	49.8	
66 2-Pentanone	43	5.190	5.190	0.000	98	1161675	160.0	157.9	
67 Methylcyclohexane	55	5.273	5.273	0.000	94	571368	50.0	52.0	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	94	507307	50.0	49.7	
69 Methyl methacrylate	100		5.299					ND	
70 1,4-Dioxane	88	5.336	5.336	0.000	99	100908	1000.0	796.0	
71 Dibromomethane	93	5.359	5.359	0.000	90	268429	50.0	48.9	
72 Dichlorobromomethane	83	5.479	5.483	-0.004	98	611581	50.0	51.0	
73 2-Nitropropane	41	5.659	5.647	0.012	36	1451		0.7288	
74 2-Chloroethyl vinyl ether	63		5.685				ND	ND	
75 cis-1,3-Dichloropropene	75	5.828	5.827	0.001	92	727409	50.0	48.6	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	2058101	200.0	199.8	
77 Toluene	91	6.112	6.112	0.000	97	1812682	50.0	47.8	
78 trans-1,3-Dichloropropene	75	6.289	6.289	0.000	97	672562	50.0	50.2	
79 Ethyl methacrylate	69	6.315	6.319	-0.004	92	554966	50.0	47.9	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	93	372031	50.0	49.6	
81 Tetrachloroethene	164	6.551	6.551	0.000	91	290717	50.0	48.6	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	95	719478	50.0	50.7	
83 2-Hexanone	43	6.630	6.630	0.000	98	1395123	200.0	203.3	
84 Chlorodibromomethane	129	6.798	6.798	0.000	90	418210	50.0	49.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Tetrahydrothiophene	60		6.847					ND	
86 Ethylene Dibromide	107	6.915	6.915	0.000	99	377698	50.0	49.0	
87 1-Chlorohexane	91	7.308	7.308	0.000	87	432632	40.0	37.8	
88 Chlorobenzene	112	7.346	7.346	0.000	92	1114278	50.0	46.8	
89 1,1,1,2-Tetrachloroethane	131	7.417	7.417	0.000	93	389008	50.0	48.4	
90 Ethylbenzene	106	7.424	7.424	0.000	99	600409	50.0	47.7	
91 m-Xylene & p-Xylene	106	7.541	7.544	-0.003	0	735833	50.0	48.2	
92 o-Xylene	106	7.901	7.900	0.001	98	737036	50.0	49.9	
93 Styrene	104	7.916	7.915	0.001	95	1250005	50.0	51.1	
94 Bromoform	173	8.095	8.095	0.000	93	263235	50.0	48.1	
95 Isopropylbenzene	105	8.242	8.242	0.000	97	1845666	50.0	50.1	
96 cis-1,4-Dichloro-2-butene	53	8.298	8.298	0.000	0	8299		3.87	
97 Cyclohexanone	55	8.335	8.335	0.000	96	495889	1500.0	988.8	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	94	549481	50.0	50.8	
99 Bromobenzene	156	8.553	8.553	0.000	97	446703	50.0	48.5	
100 trans-1,4-Dichloro-2-butene	53	8.572	8.568	0.004	77	163875	50.0	50.1	
101 1,2,3-Trichloropropane	110	8.590	8.590	0.000	86	145270	50.0	48.6	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	511291	50.0	50.3	
103 2-Chlorotoluene	126	8.733	8.733	0.000	95	442675	50.0	48.4	
104 1,3,5-Trimethylbenzene	105	8.811	8.815	-0.004	94	1560309	50.0	51.0	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	458025	50.0	48.3	
106 tert-Butylbenzene	119	9.119	9.119	0.000	95	1257161	50.0	50.3	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1618757	50.0	48.0	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	366853	50.0	52.2	
109 Pentachloroethane	167		9.392					ND	
110 1,3-Dichlorobenzene	146	9.464	9.464	0.000	96	824989	50.0	47.3	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1578894	50.0	47.2	
112 1,4-Dichlorobenzene	146	9.561	9.565	-0.004	92	851109	50.0	46.2	
113 1,2,3-Trimethylbenzene	105	9.587	9.584	0.003	94	15648		0.4695	
114 n-Butylbenzene	91	9.891	9.891	0.000	99	1473255	50.0	47.3	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	794846	50.0	48.5	
116 1,2-Dibromo-3-Chloropropane	157	10.697	10.697	0.000	76	72163	50.0	42.5	
117 1,3,5-Trichlorobenzene	180		10.888					ND	7
118 1,2,4-Trichlorobenzene	180	11.522	11.522	0.000	94	342401	50.0	42.1	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	94	158943	50.0	41.4	
120 Naphthalene	128	11.788	11.788	0.000	98	794160	50.0	35.3	
121 1,2,3-Trichlorobenzene	180	12.009	12.013	-0.004	94	189099	50.0	33.0	
134 2-Methylhexane	1		0.000					ND	
137 Dimethyl disulfide	1		0.000					ND	
127 t-Amyl alcohol	1		0.000					ND	
126 cis-1,4-Dichloro-2-butene TIC	1		0.000					ND	
129 Ethyl acrylate	55		0.000					ND	
131 Pentachloroethane TIC	1		0.000					ND	
130 2,2,3-Trimethylbutane	1		0.000					ND	
132 2,4-Dimethylpentane	1		0.000					ND	
124 n-Nonyl Aldehyde	1		0.000					ND	
125 Ethylene oxide TIC	1		0.000					ND	
133 3,3-Dimethylpentane	1		0.000					ND	
123 3-Ethylpentane	1		0.000					ND	
135 2,3-Dimethylpentane	1		0.000					ND	
128 3-Methylhexane	1		0.000					ND	
136 2,2-Dimethylpentane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
138 Propene oxide TIC	58	5.333	5.334	-0.001	80	76156			NR
S 144 TAH	1				0				0
S 143 1,3-Dichloropropene, Total	1				0		100.0		98.8
S 142 Trihalomethanes, Total	1				0		200.0		198.6
S 141 Xylenes, Total	106				0		100.0		98.2
S 140 1,2-Dichloroethene, Total	1				0		100.0		93.5
S 139 Total BTEX	1				0				242.4

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

7 - Failed Limit of Detection

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 10:59:59

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6808.D

Injection Date: 04-Aug-2023 00:03:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179478-B-4 MS

Worklist Smp#: 27

Client ID: RW-8048P-20230721

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

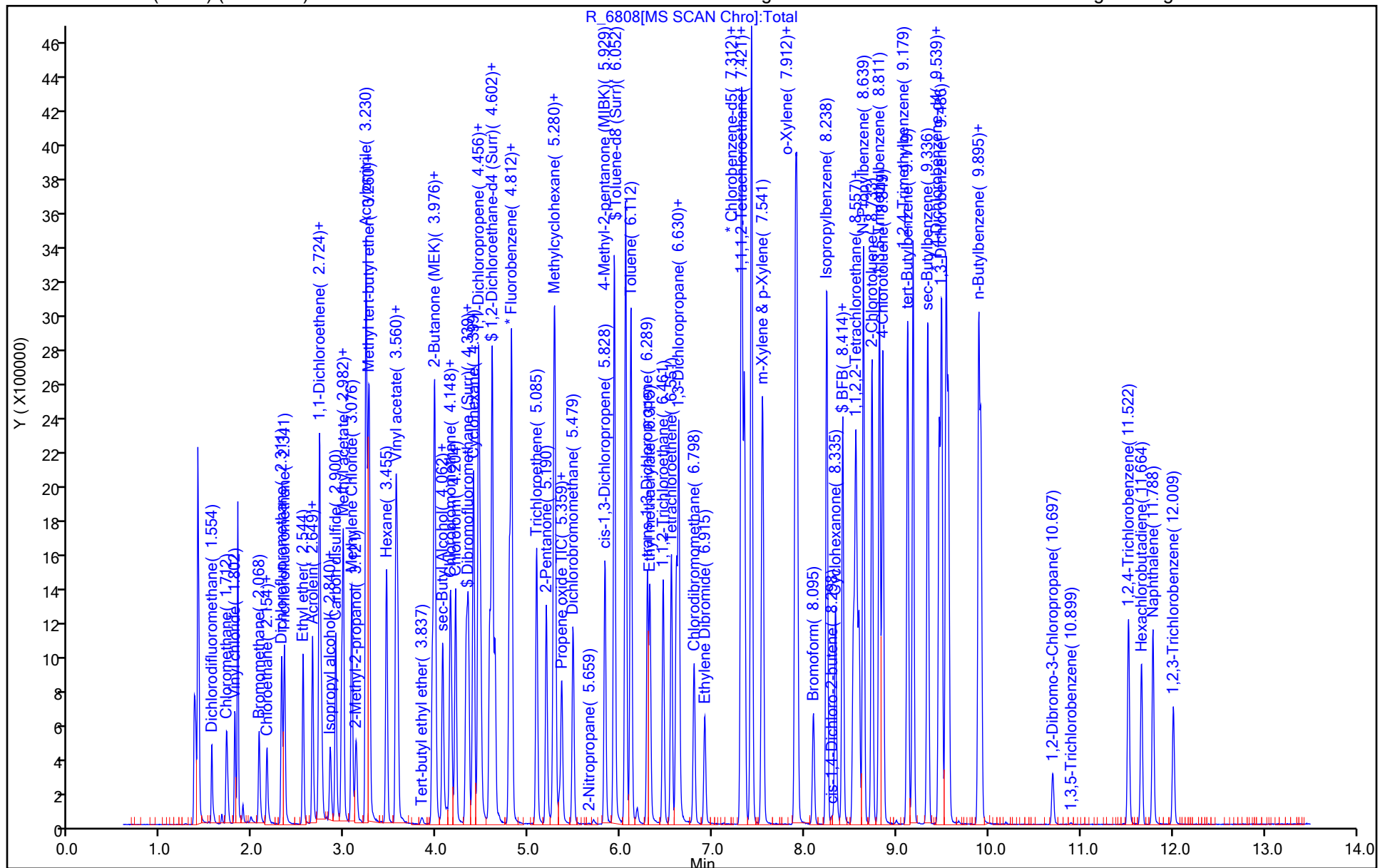
ALS Bottle#: 20

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6808.D
Lims ID: 280-179478-B-4 MS
Client ID: RW-8048P-20230721
Sample Type: MS
Inject. Date: 04-Aug-2023 00:03:30 ALS Bottle#: 20 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-B-4 MS
Misc. Info.: 280-0124173-027
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 10:59:07 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1676

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	49.6	99.25
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	53.1	106.13
\$ 6 Toluene-d8 (Surr)	50.0	50.0	99.92
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.3	102.55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8048P-20230721 MSD</u>	Lab Sample ID: <u>280-179478-4 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6809.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 12:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 00:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	47.9		1.0	0.58
71-55-6	1,1,1-Trichloroethane	47.6		1.0	0.39
79-34-5	1,1,2,2-Tetrachloroethane	47.7		1.0	0.21
79-00-5	1,1,2-Trichloroethane	48.3		1.0	0.27
75-34-3	1,1-Dichloroethane	47.3		1.0	0.22
75-35-4	1,1-Dichloroethene	41.9		1.0	0.23
563-58-6	1,1-Dichloropropene	47.2		1.0	0.42
96-18-4	1,2,3-Trichloropropane	46.4		2.5	0.86
96-12-8	1,2-Dibromo-3-Chloropropane	39.9		5.0	1.8
95-50-1	1,2-Dichlorobenzene	46.9		1.0	0.37
107-06-2	1,2-Dichloroethane	50.2		1.0	0.54
78-87-5	1,2-Dichloropropane	49.5		1.0	0.52
541-73-1	1,3-Dichlorobenzene	45.8		1.0	0.33
142-28-9	1,3-Dichloropropane	49.1		1.0	0.38
106-46-7	1,4-Dichlorobenzene	45.1		1.0	0.39
594-20-7	2,2-Dichloropropane	45.5		1.0	0.38
591-78-6	2-Hexanone	183		5.0	1.7
108-10-1	4-Methyl-2-pentanone (MIBK)	182		5.0	0.98
67-64-1	Acetone	164		15	6.6
71-43-2	Benzene	46.7		1.0	0.31
75-25-2	Bromoform	45.9		2.0	1.2
74-83-9	Bromomethane	39.0		5.0	2.4
75-15-0	Carbon disulfide	38.2		2.0	0.63
56-23-5	Carbon tetrachloride	47.4		1.0	0.57
108-90-7	Chlorobenzene	46.0		1.0	0.42
74-97-5	Chlorobromomethane	49.6		1.0	0.40
124-48-1	Chlorodibromomethane	48.0		2.0	0.62
75-00-3	Chloroethane	46.4		4.0	1.4
67-66-3	Chloroform	48.6		1.0	0.36
74-87-3	Chloromethane	42.6		2.0	0.75
156-59-2	cis-1,2-Dichloroethene	46.6		1.0	0.32
10061-01-5	cis-1,3-Dichloropropene	48.1		2.0	0.63
74-95-3	Dibromomethane	48.2		1.0	0.34
75-27-4	Dichlorobromomethane	49.6		1.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins Denver</u>	Job No.: <u>280-179478-1</u>
SDG No.: _____	
Client Sample ID: <u>RW-8048P-20230721 MSD</u>	Lab Sample ID: <u>280-179478-4 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>R_6809.D</u>
Analysis Method: <u>8260D</u>	Date Collected: <u>07/21/2023 12:20</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>08/04/2023 00:24</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>DB-624 (60.25)</u> ID: <u>0.25 (mm)</u>
Purge Volume: <u>5.0 (mL)</u>	Heated Purge: (Y/N) <u>N</u> pH: _____
% Moisture: _____ % Solids: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>621775</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	42.8		3.0	0.96
100-41-4	Ethylbenzene	46.8		1.0	0.30
74-88-4	Iodomethane	42.3		5.0	2.6
78-83-1	Isobutyl alcohol	1070		110	37
75-09-2	Methylene Chloride	45.0		2.0	0.94
179601-23-1	m-Xylene & p-Xylene	47.3		2.0	0.36
95-47-6	o-Xylene	48.6		1.0	0.33
100-42-5	Styrene	50.1		1.0	0.36
127-18-4	Tetrachloroethene	46.1		1.0	0.40
108-88-3	Toluene	45.7		1.0	0.32
156-60-5	trans-1,2-Dichloroethene	43.7		1.0	0.37
10061-02-6	trans-1,3-Dichloropropene	49.6		2.0	0.65
79-01-6	Trichloroethene	47.7		1.0	0.30
75-69-4	Trichlorofluoromethane	53.4		2.0	0.57
108-05-4	Vinyl acetate	97.8		3.0	0.94
75-01-4	Vinyl chloride	48.8		2.0	0.51
1330-20-7	Xylenes, Total	95.9		1.0	0.33
78-93-3	2-Butanone (MEK)	186		15	6.0
107-02-8	Acrolein	467		20	4.9
107-13-1	Acrylonitrile	481		20	4.5
106-93-4	1,2-Dibromoethane	48.3		1.0	0.40
120-82-1	1,2,4-Trichlorobenzene	42.3		1.0	0.58
107-05-1	Allyl chloride	44.1		2.0	0.17
97-63-2	Ethyl methacrylate	45.3		3.0	0.86
110-57-6	trans-1,4-Dichloro-2-butene	44.6		3.0	1.4

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
460-00-4	4-Bromofluorobenzene (Surr)	102		78-120
2037-26-5	Toluene-d8 (Surr)	100		80-125
1868-53-7	Dibromofluoromethane (Surr)	101		77-120

Eurofins Denver
Target Compound Quantitation Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6809.D
 Lims ID: 280-179478-B-4 MSD
 Client ID: RW-8048P-20230721
 Sample Type: MSD
 Inject. Date: 04-Aug-2023 00:24:30 ALS Bottle#: 21 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 280-179478-B-4 MSD
 Misc. Info.: 280-0124173-028
 Operator ID: sjd Instrument ID: VMS_R1
 Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
 Limit Group: MSV - 8260B Water and Solid
 Last Update: 04-Aug-2023 10:59:07 Calib Date: 30-Jul-2023 19:19:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
 Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
 Process Host: CTX1676

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	4.811	4.815	-0.004	98	1869475	50.0	50.0	
* 2 Chlorobenzene-d5	119	7.316	7.316	0.000	90	464947	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	9.538	9.539	-0.001	97	743058	50.0	50.0	
\$ 4 Dibromofluoromethane (Surr)	111	4.317	4.320	-0.003	92	497621	50.0	50.7	
\$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.575	4.575	0.000	0	618848	50.0	52.7	
\$ 6 Toluene-d8 (Surr)	98	6.052	6.052	0.000	95	1997129	50.0	49.9	
\$ 7 4-Bromofluorobenzene (Surr)	95	8.414	8.414	0.000	83	735530	50.0	51.1	
\$ 8 BFB	95	8.414	8.414	0.000	82	735530		NR	
9 Dichlorodifluoromethane	85	1.554	1.554	0.000	99	383184	50.0	42.8	
10 Chloromethane	50	1.711	1.715	-0.004	99	605637	50.0	42.6	
11 Vinyl chloride	62	1.801	1.801	0.000	98	556977	50.0	48.8	
13 Bromomethane	94	2.067	2.068	-0.001	92	291647	50.0	39.0	
12 Ethylene oxide	43	2.116	2.075	0.041	61	1843		4.80	
14 Chloroethane	64	2.150	2.150	0.000	99	342209	50.0	46.4	
15 Dichlorofluoromethane	67	2.311	2.311	0.000	97	887486	50.0	51.2	
16 Trichlorofluoromethane	101	2.341	2.341	0.000	98	669268	50.0	53.4	
17 Ethanol	45	2.544	2.457	0.087	75	295631		3312.2	
18 Ethyl ether	59	2.544	2.547	-0.003	97	373902	50.0	47.7	
19 Propene oxide	58	2.648	2.630	0.018	20	1220		0.8592	
20 Acrolein	56	2.648	2.649	-0.001	99	613816	493.8	466.8	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	151	2.720	2.724	-0.004	97	206476	50.0	39.8	
22 1,1-Dichloroethene	96	2.723	2.724	-0.001	94	302606	50.0	41.9	
23 Acetone	43	2.746	2.746	0.000	99	535459	200.0	163.5	
24 Isopropyl alcohol	45	2.832	2.832	0.000	26	10905		22.8	
25 Iodomethane	142	2.840	2.840	0.000	100	425792	50.0	42.3	
26 Carbon disulfide	76	2.900	2.900	0.000	100	1091286	50.0	38.2	
27 Acetonitrile	41		2.945					ND	
28 Methyl acetate	43	2.963	2.967	-0.004	99	715164	100.0	93.5	
29 3-Chloro-1-propene	41	2.982	2.982	0.000	90	786781	50.0	44.1	
30 Methylene Chloride	84	3.072	3.072	0.000	98	439404	50.0	45.0	
31 2-Methyl-2-propanol	59	3.121	3.125	-0.004	95	361836	500.0	432.0	
32 Acrylonitrile	53	3.230	3.230	0.000	99	1806957	500.0	481.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Methyl tert-butyl ether	73	3.252	3.256	-0.004	98	1142096	50.0	48.2	
34 trans-1,2-Dichloroethene	96	3.267	3.267	0.000	94	375493	50.0	43.7	
35 Hexane	57	3.451	3.455	-0.004	97	458147	50.0	37.9	
36 Chlorotrifluoroethene	116		3.531					ND	
37 Vinyl acetate	43	3.556	3.556	0.000	97	1999003	100.0	97.8	
38 Isopropyl ether	87	3.567	3.574	-0.007	35	14217		2.18	
39 1,1-Dichloroethane	63	3.571	3.575	-0.004	96	852791	50.0	47.3	
40 2-Chloro-1,3-butadiene	53	3.619	3.627	-0.008	1	5619		0.4579	
41 Tert-butyl ethyl ether	59	3.837	3.833	0.004	79	3658		0.1614	
42 2-Chloro-1,1,1-Trifluoroethane	118		3.951					ND	
43 2-Butanone (MEK)	43	3.949	3.953	-0.004	99	874393	200.0	186.2	
44 Ethyl acetate	43		3.968					ND	
45 cis-1,2-Dichloroethene	96	3.972	3.972	0.000	86	441094	50.0	46.6	
46 2,2-Dichloropropane	77	3.979	3.983	-0.004	92	578786	50.0	45.5	
47 Propionitrile	54	3.949	3.998	-0.049	33	2069		1.55	
48 sec-Butyl Alcohol	45	4.062	4.066	-0.004	99	819939	1200.0	967.5	
49 Methacrylonitrile	41		4.107					ND	
50 Chlorobromomethane	128	4.144	4.148	-0.004	92	197478	50.0	49.6	
51 Tetrahydrofuran	42	4.155	4.156	-0.001	92	306024	100.0	99.9	
52 Chloroform	83	4.204	4.204	0.000	95	775811	50.0	48.6	
53 1,1,1-Trichloroethane	97	4.339	4.343	-0.004	97	595770	50.0	47.6	
54 Cyclohexane	56	4.399	4.399	0.000	95	697330	50.0	44.7	
55 1,1-Dichloropropene	75	4.452	4.455	-0.003	95	597039	50.0	47.2	
56 Carbon tetrachloride	117	4.455	4.459	-0.004	96	506943	50.0	47.4	
57 Isobutyl alcohol	41	4.474	4.474	0.000	93	386017	1250.0	1074.8	
58 Benzene	78	4.602	4.602	0.000	98	1748368	50.0	46.7	
59 1,2-Dichloroethane	62	4.631	4.632	-0.001	96	643710	50.0	50.2	
61 Tert-amyl methyl ether	73	4.669	4.673	-0.004	86	5195		0.2508	
60 1,2-Dichloro-1,1,2-trifluoroethane	117		4.678					ND	
62 1,1,1-Trifluoro-2,2-dichloroethane	83		4.706					ND	
63 n-Heptane	43	4.789	4.789	0.000	98	484391	50.0	43.5	
64 n-Butanol	56		4.969					ND	
65 Trichloroethene	95	5.085	5.085	0.000	96	428009	50.0	47.7	
66 2-Pentanone	43	5.190	5.190	0.000	98	1092050	160.0	145.3	
67 Methylcyclohexane	55	5.273	5.273	-0.001	96	528939	50.0	47.1	
68 1,2-Dichloropropane	63	5.288	5.288	0.000	94	516512	50.0	49.5	
69 Methyl methacrylate	100	5.284	5.299	-0.015	72	1496		0.6541	
70 1,4-Dioxane	88	5.332	5.336	-0.004	99	97876	1000.0	755.7	
71 Dibromomethane	93	5.359	5.359	0.000	89	270601	50.0	48.2	
72 Dichlorobromomethane	83	5.482	5.483	-0.001	98	608463	50.0	49.6	
73 2-Nitropropane	41	5.651	5.647	0.004	45	1314		0.6456	
74 2-Chloroethyl vinyl ether	63		5.685				ND	ND	
75 cis-1,3-Dichloropropene	75	5.827	5.827	0.000	92	736569	50.0	48.1	
76 4-Methyl-2-pentanone (MIBK)	43	5.929	5.929	0.000	99	1915907	200.0	182.1	
77 Toluene	91	6.112	6.112	0.000	97	1770524	50.0	45.7	
78 trans-1,3-Dichloropropene	75	6.288	6.289	-0.001	93	679710	50.0	49.6	
79 Ethyl methacrylate	69	6.318	6.319	-0.001	93	534740	50.0	45.3	
80 1,1,2-Trichloroethane	97	6.461	6.461	0.000	92	370388	50.0	48.3	
81 Tetrachloroethene	164	6.551	6.551	0.000	91	281916	50.0	46.1	
82 1,3-Dichloropropane	76	6.607	6.607	0.000	95	711793	50.0	49.1	
83 2-Hexanone	43	6.630	6.630	0.000	98	1283421	200.0	183.3	
84 Chlorodibromomethane	129	6.798	6.798	0.000	90	415137	50.0	48.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 Tetrahydrothiophene	60		6.847					ND	
86 Ethylene Dibromide	107	6.914	6.915	-0.001	98	380080	50.0	48.3	
87 1-Chlorohexane	91	7.308	7.308	0.000	87	417583	40.0	35.7	
88 Chlorobenzene	112	7.346	7.346	0.000	91	1119898	50.0	46.0	
89 1,1,1,2-Tetrachloroethane	131	7.417	7.417	0.000	94	393181	50.0	47.9	
90 Ethylbenzene	106	7.424	7.424	0.000	99	601213	50.0	46.8	
91 m-Xylene & p-Xylene	106	7.540	7.544	-0.004	0	736840	50.0	47.3	
92 o-Xylene	106	7.900	7.900	0.000	98	732746	50.0	48.6	
93 Styrene	104	7.919	7.915	0.004	95	1252045	50.0	50.1	
94 Bromoform	173	8.095	8.095	0.000	91	256856	50.0	45.9	
95 Isopropylbenzene	105	8.241	8.242	-0.001	97	1779440	50.0	47.2	
96 cis-1,4-Dichloro-2-butene	53	8.294	8.298	-0.004	0	8389		3.83	
97 Cyclohexanone	55	8.335	8.335	0.000	96	481695	1500.0	941.0	
98 1,1,2,2-Tetrachloroethane	83	8.530	8.530	0.000	93	527949	50.0	47.7	
99 Bromobenzene	156	8.556	8.553	0.003	98	450189	50.0	47.7	
100 trans-1,4-Dichloro-2-butene	53	8.568	8.568	0.000	74	149488	50.0	44.6	
101 1,2,3-Trichloropropane	110	8.590	8.590	0.000	87	142124	50.0	46.4	
102 N-Propylbenzene	120	8.639	8.639	0.000	100	490377	50.0	47.1	
103 2-Chlorotoluene	126	8.733	8.733	-0.001	95	433417	50.0	46.3	
104 1,3,5-Trimethylbenzene	105	8.815	8.815	0.000	94	1532794	50.0	48.9	
105 4-Chlorotoluene	126	8.849	8.849	0.000	99	466866	50.0	48.1	
106 tert-Butylbenzene	119	9.119	9.119	0.000	95	1217080	50.0	47.6	
107 1,2,4-Trimethylbenzene	105	9.179	9.179	0.000	99	1603893	50.0	46.4	
108 sec-Butylbenzene	134	9.340	9.340	0.000	95	340999	50.0	47.3	
109 Pentachloroethane	167		9.392					ND	
110 1,3-Dichlorobenzene	146	9.463	9.464	-0.001	97	818734	50.0	45.8	
111 4-Isopropyltoluene	119	9.490	9.490	0.000	97	1530485	50.0	44.7	
112 1,4-Dichlorobenzene	146	9.565	9.565	0.000	93	851804	50.0	45.1	
113 1,2,3-Trimethylbenzene	105	9.583	9.584	-0.001	47	12404		0.3634	
114 n-Butylbenzene	91	9.891	9.891	0.000	98	1435838	50.0	45.0	
115 1,2-Dichlorobenzene	146	9.917	9.917	0.000	95	787363	50.0	46.9	
116 1,2-Dibromo-3-Chloropropane	157	10.697	10.697	0.000	77	69438	50.0	39.9	
117 1,3,5-Trichlorobenzene	180	10.892	10.888	0.004	1	2121		0.1762	
118 1,2,4-Trichlorobenzene	180	11.521	11.522	-0.001	93	352860	50.0	42.3	
119 Hexachlorobutadiene	225	11.664	11.664	0.000	96	161157	50.0	41.0	
120 Naphthalene	128	11.788	11.788	0.000	98	839745	50.0	36.4	
121 1,2,3-Trichlorobenzene	180	12.009	12.013	-0.004	95	227495	50.0	38.7	
134 2-Methylhexane	1		0.000					ND	
137 Dimethyl disulfide	1		0.000					ND	
127 t-Amyl alcohol	1		0.000					ND	
126 cis-1,4-Dichloro-2-butene TIC	1		0.000					ND	
129 Ethyl acrylate	55		0.000					ND	
131 Pentachloroethane TIC	1		0.000					ND	
130 2,2,3-Trimethylbutane	1		0.000					ND	
132 2,4-Dimethylpentane	1		0.000					ND	
124 n-Nonyl Aldehyde	1		0.000					ND	
125 Ethylene oxide TIC	1		0.000					ND	
133 3,3-Dimethylpentane	1		0.000					ND	
123 3-Ethylpentane	1		0.000					ND	
135 2,3-Dimethylpentane	1		0.000					ND	
128 3-Methylhexane	1		0.000					ND	
136 2,2-Dimethylpentane	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
122 1-Chloro-1-fluoroethane TIC	1		0.000					ND	
138 Propene oxide TIC	58	5.332	5.334	-0.002	81	77043			NR
S 144 TAH	1				0				0
S 143 1,3-Dichloropropene, Total	1				0		100.0		97.8
S 142 Trihalomethanes, Total	1				0		200.0		192.1
S 141 Xylenes, Total	106				0		100.0		95.9
S 140 1,2-Dichloroethene, Total	1				0		100.0		90.3
S 139 Total BTEX	1				0				235.1

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

ND - Not Detected or Marked ND

Reagents:

MV-MegaMainA_00092

Amount Added: 25.00

Units: uL

MV-Gas A_00159

Amount Added: 10.00

Units: uL

mv-IS_SS_00066

Amount Added: 5.00

Units: uL

Run Reagent

Report Date: 04-Aug-2023 11:00:05

Chrom Revision: 2.3 01-Aug-2023 10:44:40

Eurofins Denver

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6809.D

Injection Date: 04-Aug-2023 00:24:30

Instrument ID: VMS_R1

Operator ID: sjd

Lims ID: 280-179478-B-4 MSD

Worklist Smp#: 28

Client ID: RW-8048P-20230721

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

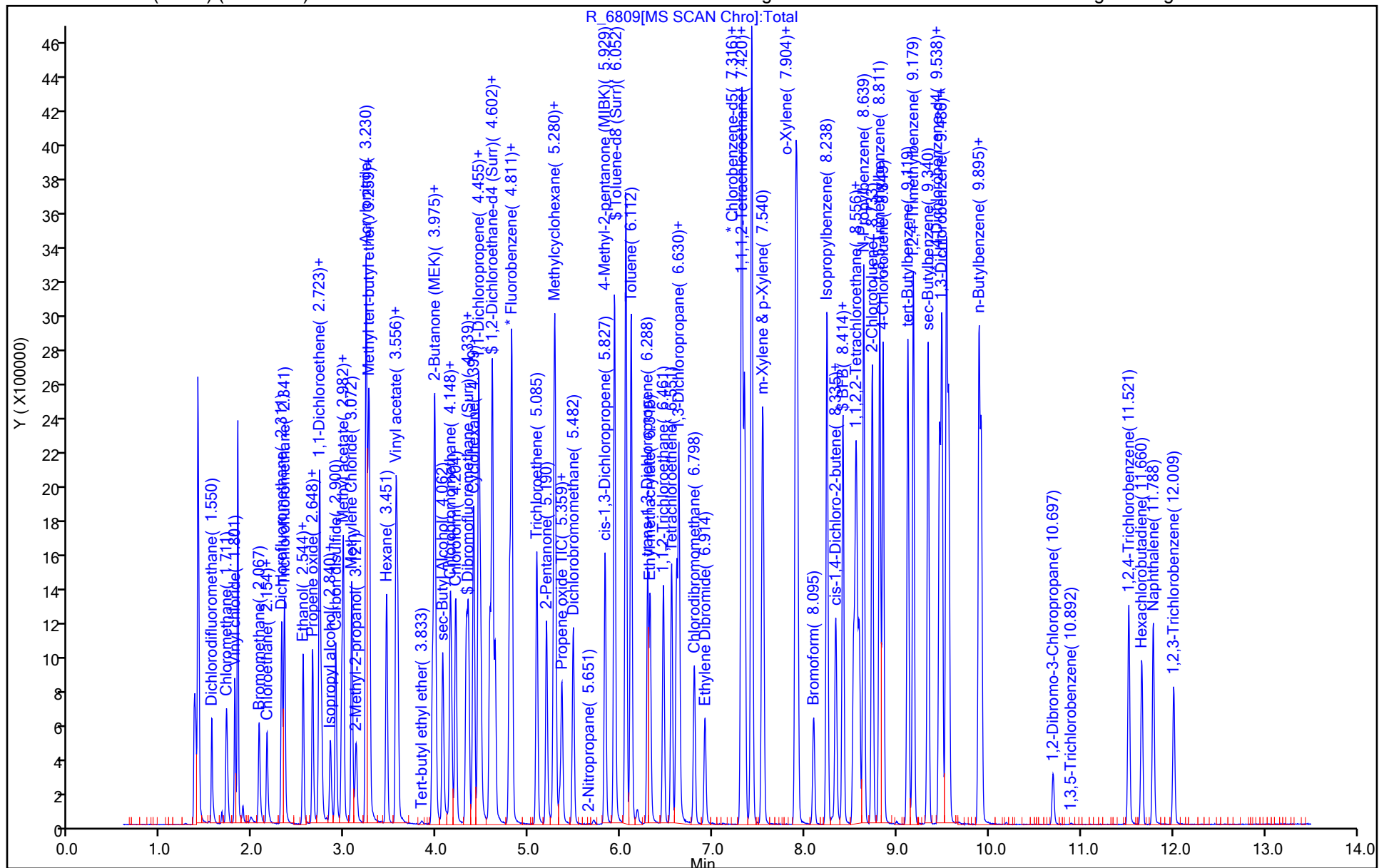
ALS Bottle#: 21

Method: AQ_VMSR1_8260

Limit Group: MSV - 8260B Water and Solid

Column: DB-624 (60.25) (0.25 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



8/9/2023 4:24

PM

Eurofins Denver
Recovery Report

Data File: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\R_6809.D
Lims ID: 280-179478-B-4 MSD
Client ID: RW-8048P-20230721
Sample Type: MSD
Inject. Date: 04-Aug-2023 00:24:30 ALS Bottle#: 21 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 280-179478-B-4 MSD
Misc. Info.: 280-0124173-028
Operator ID: sjd Instrument ID: VMS_R1
Method: \\chromfs\Denver\ChromData\VMS_R1\20230803-124173.b\AQ_VMSR1_8260.m
Limit Group: MSV - 8260B Water and Solid
Last Update: 04-Aug-2023 10:59:07 Calib Date: 30-Jul-2023 19:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Denver\ChromData\VMS_R1\20230730-124001.b\R_6578.D
Column 1 : DB-624 (60.25) (0.25 mm) Det: MS SCAN
Process Host: CTX1676

Compound	Amount Added	Amount Recovered	% Rec.
\$ 4 Dibromofluoromethane (Surr)	50.0	50.7	101.31
\$ 5 1,2-Dichloroethane-d4 (Surr)	50.0	52.7	105.40
\$ 6 Toluene-d8 (Surr)	50.0	49.9	99.74
\$ 7 4-Bromofluorobenzene (Surr)	50.0	51.1	102.25

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins DenverJob No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_R1Start Date: 03/29/2022 15:57Analysis Batch Number: 570124End Date: 03/29/2022 22:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-570124/1		03/29/2022 15:57	1	R3107.D	DB-624 (60.25) 0.25 (mm)
STD1 280-570124/14 IC		03/29/2022 17:08	1	R3108.D	DB-624 (60.25) 0.25 (mm)
STD2 280-570124/15 IC		03/29/2022 17:29	1	R3109.D	DB-624 (60.25) 0.25 (mm)
STD5 280-570124/16 IC		03/29/2022 17:51	1	R3110.D	DB-624 (60.25) 0.25 (mm)
STD10 280-570124/17 IC		03/29/2022 18:13	1	R3111.D	DB-624 (60.25) 0.25 (mm)
STD50 280-570124/18 IC		03/29/2022 18:35	1	R3112.D	DB-624 (60.25) 0.25 (mm)
STD75 280-570124/19 IC		03/29/2022 18:57	1	R3113.D	DB-624 (60.25) 0.25 (mm)
STD100 280-570124/20 IC		03/29/2022 19:18	1	R3114.D	DB-624 (60.25) 0.25 (mm)
STD200 280-570124/21 IC		03/29/2022 19:40	1	R3115.D	DB-624 (60.25) 0.25 (mm)
ICV 280-570124/22		03/29/2022 20:24	1	R3117.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		03/29/2022 21:07	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		03/29/2022 21:29	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		03/29/2022 21:50	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		03/29/2022 22:12	1		DB-624 (60.25) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS1 Start Date: 12/28/2022 07:14Analysis Batch Number: 597846 End Date: 12/28/2022 14:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-597846/1		12/28/2022 07:14	1	MS1_4145.D	DB-624 (60.25) 0.25 (mm)
STD1 280-597846/12 IC		12/28/2022 11:59	1	MS1_4150.D	DB-624 (60.25) 0.25 (mm)
STD2 280-597846/13 IC		12/28/2022 12:21	1	MS1_4151.D	DB-624 (60.25) 0.25 (mm)
STD5 280-597846/14 IC		12/28/2022 12:43	1	MS1_4152.D	DB-624 (60.25) 0.25 (mm)
STD10 280-597846/15 IC		12/28/2022 13:05	1	MS1_4153.D	DB-624 (60.25) 0.25 (mm)
STD50 280-597846/16 IC		12/28/2022 13:27	1	MS1_4154.D	DB-624 (60.25) 0.25 (mm)
STD75 280-597846/17 IC		12/28/2022 13:49	1	MS1_4155.D	DB-624 (60.25) 0.25 (mm)
STD100 280-597846/18 IC		12/28/2022 14:11	1	MS1_4156.D	DB-624 (60.25) 0.25 (mm)
STD200 280-597846/19 IC		12/28/2022 14:33	1	MS1_4157.D	DB-624 (60.25) 0.25 (mm)
ICV 280-597846/20		12/28/2022 14:55	1	MS1_4158.D	DB-624 (60.25) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins DenverJob No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS11Start Date: 06/19/2023 07:01Analysis Batch Number: 616689End Date: 06/19/2023 17:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-616689/1		06/19/2023 07:01	1	ms11_7984.D	RXI-624SilMS 0.25 (mm)
STD 280-616689/11 IC		06/19/2023 08:17	1		RXI-624SilMS 0.25 (mm)
STD 280-616689/12 IC		06/19/2023 08:39	1		RXI-624SilMS 0.25 (mm)
STD 280-616689/13 IC		06/19/2023 09:00	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 09:00	1		RXI-624SilMS 0.25 (mm)
ICIS 280-616689/14		06/19/2023 09:21	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 09:21	1		RXI-624SilMS 0.25 (mm)
STD 280-616689/15 IC		06/19/2023 09:43	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 09:43	1		RXI-624SilMS 0.25 (mm)
STD 280-616689/16 IC		06/19/2023 10:04	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 10:04	1		RXI-624SilMS 0.25 (mm)
STD 280-616689/17 IC		06/19/2023 10:26	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 10:26	1		RXI-624SilMS 0.25 (mm)
STD 280-616689/18 IC		06/19/2023 10:47	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 10:47	1		RXI-624SilMS 0.25 (mm)
STD 280-616689/19 IC		06/19/2023 11:09	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 11:09	1		RXI-624SilMS 0.25 (mm)
ICV 280-616689/20		06/19/2023 11:30	1		RXI-624SilMS 0.25 (mm)
STD 280-616689/21 IC		06/19/2023 11:51	1	ms11_7996.D	RXI-624SilMS 0.25 (mm)
STD 280-616689/22 IC		06/19/2023 12:13	1	ms11_7997.D	RXI-624SilMS 0.25 (mm)
STD 280-616689/23 IC		06/19/2023 12:34	1	ms11_7998.D	RXI-624SilMS 0.25 (mm)
STD 280-616689/24 IC		06/19/2023 12:56	1	ms11_7999.D	RXI-624SilMS 0.25 (mm)
STD 280-616689/25 IC		06/19/2023 13:17	1	ms11_8000.D	RXI-624SilMS 0.25 (mm)
STD 280-616689/26 IC		06/19/2023 13:39	1	ms11_8001.D	RXI-624SilMS 0.25 (mm)
STD 280-616689/27 IC		06/19/2023 14:00	1	ms11_8002.D	RXI-624SilMS 0.25 (mm)
STD 280-616689/28 IC		06/19/2023 14:22	1	ms11_8003.D	RXI-624SilMS 0.25 (mm)
ICV 280-616689/29		06/19/2023 14:43	1	ms11_8004.D	RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 15:05	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 15:26	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 15:47	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 16:09	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 16:30	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 16:52	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 17:13	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 17:35	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		06/19/2023 17:56	1		RXI-624SilMS 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_R1 Start Date: 07/30/2023 15:30Analysis Batch Number: 621220 End Date: 07/30/2023 19:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621220/1		07/30/2023 15:30	1	R_6567.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/13		07/30/2023 16:32	1	R_6570.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/14		07/30/2023 16:53	1	R_6571.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/15		07/30/2023 17:14	1	R_6572.D	DB-624 (60.25) 0.25 (mm)
ICIS 280-621220/16		07/30/2023 17:35	1	R_6573.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/17		07/30/2023 17:56	1	R_6574.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/18		07/30/2023 18:16	1	R_6575.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/19		07/30/2023 18:37	1	R_6576.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/20		07/30/2023 18:58	1	R_6577.D	DB-624 (60.25) 0.25 (mm)
IC 280-621220/21		07/30/2023 19:19	1	R_6578.D	DB-624 (60.25) 0.25 (mm)
ICV 280-621220/22		07/30/2023 19:40	1	R_6579.D	DB-624 (60.25) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS1 Start Date: 08/01/2023 08:14Analysis Batch Number: 621383 End Date: 08/01/2023 13:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621383/1 RADL		08/01/2023 08:14	1	MS1_2672.D	DB-624 (60.25) 0.25 (mm)
IC 280-621383/13		08/01/2023 09:52	1	MS1_2676.D	DB-624 (60.25) 0.25 (mm)
IC 280-621383/14		08/01/2023 10:13	1	MS1_2677.D	DB-624 (60.25) 0.25 (mm)
IC 280-621383/15		08/01/2023 10:34	1	MS1_2678.D	DB-624 (60.25) 0.25 (mm)
ICIS 280-621383/16		08/01/2023 10:55	1	MS1_2679.D	DB-624 (60.25) 0.25 (mm)
IC 280-621383/17		08/01/2023 11:17	1	MS1_2680.D	DB-624 (60.25) 0.25 (mm)
IC 280-621383/18		08/01/2023 11:38	1	MS1_2681.D	DB-624 (60.25) 0.25 (mm)
IC 280-621383/19		08/01/2023 11:59	1	MS1_2682.D	DB-624 (60.25) 0.25 (mm)
IC 280-621383/20		08/01/2023 12:21	1	MS1_2683.D	DB-624 (60.25) 0.25 (mm)
IC 280-621383/21		08/01/2023 12:42	1	MS1_2684.D	DB-624 (60.25) 0.25 (mm)
ICV 280-621383/22		08/01/2023 13:03	1	MS1_2685.D	DB-624 (60.25) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS11 Start Date: 08/01/2023 07:18Analysis Batch Number: 621390 End Date: 08/01/2023 10:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621390/1		08/01/2023 07:18	1	ms11_00000431A.D	RXI-624SilMS 0.25 (mm)
IC 280-621390/13		08/01/2023 07:39	1	ms11_00000432.D	RXI-624SilMS 0.25 (mm)
IC 280-621390/14		08/01/2023 08:00	1	ms11_00000433.D	RXI-624SilMS 0.25 (mm)
IC 280-621390/15		08/01/2023 08:22	1	ms11_00000434.D	RXI-624SilMS 0.25 (mm)
ICIS 280-621390/16		08/01/2023 08:43	1	ms11_00000435.D	RXI-624SilMS 0.25 (mm)
IC 280-621390/17		08/01/2023 09:05	1	ms11_00000436.D	RXI-624SilMS 0.25 (mm)
IC 280-621390/18		08/01/2023 09:26	1	ms11_00000437.D	RXI-624SilMS 0.25 (mm)
IC 280-621390/19		08/01/2023 09:47	1	ms11_00000438.D	RXI-624SilMS 0.25 (mm)
IC 280-621390/20		08/01/2023 10:09	1	ms11_00000439.D	RXI-624SilMS 0.25 (mm)
IC 280-621390/21		08/01/2023 10:30	1	ms11_00000440.D	RXI-624SilMS 0.25 (mm)
ICV 280-621390/22		08/01/2023 10:51	1	ms11_00000441.D	RXI-624SilMS 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Denver

Job No.: 280-179478-1

SDG No.:

Instrument ID: VMS_MS11

Start Date: 08/03/2023 06:24

Analysis Batch Number: 621653

End Date: 08/03/2023 18:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621653/1		08/03/2023 06:24	1	ms11_00000549A.D	RXI-624SilMS 0.25 (mm)
CCV 280-621653/3		08/03/2023 06:24	1	ms11_00000549.D	RXI-624SilMS 0.25 (mm)
LCS 280-621653/6		08/03/2023 06:24	1	ms11_00000549B.D	RXI-624SilMS 0.25 (mm)
CCV 280-621653/2		08/03/2023 06:47	1	ms11_00000550.D	RXI-624SilMS 0.25 (mm)
LCS 280-621653/4		08/03/2023 06:47	1	ms11_00000550A.D	RXI-624SilMS 0.25 (mm)
LCSD 280-621653/5		08/03/2023 07:25	1	ms11_00000551.D	RXI-624SilMS 0.25 (mm)
LCSD 280-621653/7		08/03/2023 09:36	1	ms11_00000552.D	RXI-624SilMS 0.25 (mm)
MB 280-621653/9		08/03/2023 10:19	1	ms11_00000554.D	RXI-624SilMS 0.25 (mm)
ZZZZZ		08/03/2023 10:41	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/03/2023 11:02	1		RXI-624SilMS 0.25 (mm)
280-179478-15	EB-03-20230722	08/03/2023 11:23	1	ms11_00000557.D	RXI-624SilMS 0.25 (mm)
ZZZZZ		08/03/2023 11:45	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/03/2023 12:28	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/03/2023 12:49	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/03/2023 13:10	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/03/2023 13:32	1		RXI-624SilMS 0.25 (mm)
280-179478-1	RW-8284P-20230720	08/03/2023 13:53	1	ms11_00000564.D	RXI-624SilMS 0.25 (mm)
280-179478-2	RW-2076F-20230721	08/03/2023 14:15	1	ms11_00000565.D	RXI-624SilMS 0.25 (mm)
280-179478-3	RW-2172H-20230721	08/03/2023 14:36	1	ms11_00000566.D	RXI-624SilMS 0.25 (mm)
280-179478-5	RW-8012P-20230721	08/03/2023 14:57	1	ms11_00000567.D	RXI-624SilMS 0.25 (mm)
280-179478-6	RW-7677P-20230721	08/03/2023 15:19	1	ms11_00000568.D	RXI-624SilMS 0.25 (mm)
280-179478-7	RW-2213F-20230721	08/03/2023 15:40	1	ms11_00000569.D	RXI-624SilMS 0.25 (mm)
280-179478-8	RW-7773P-20230721	08/03/2023 16:02	1	ms11_00000570.D	RXI-624SilMS 0.25 (mm)
280-179478-9	RW-7549P-20230721	08/03/2023 16:23	1	ms11_00000571.D	RXI-624SilMS 0.25 (mm)
280-179478-10	PA-4-100-110-20230722	08/03/2023 16:45	1	ms11_00000572.D	RXI-624SilMS 0.25 (mm)
ZZZZZ		08/03/2023 17:06	1		RXI-624SilMS 0.25 (mm)
ZZZZZ		08/03/2023 17:27	1		RXI-624SilMS 0.25 (mm)
CCVC 280-621653/36		08/03/2023 18:10	1		RXI-624SilMS 0.25 (mm)
CCVC 280-621653/37		08/03/2023 18:32	1		RXI-624SilMS 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins DenverJob No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_R1Start Date: 08/03/2023 16:12Analysis Batch Number: 621775End Date: 08/04/2023 02:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621775/1		08/03/2023 16:12	1	R_6787c.D	DB-624 (60.25) 0.25 (mm)
CCV 280-621775/2		08/03/2023 16:12	1	R_6787aa.D	DB-624 (60.25) 0.25 (mm)
LCS 280-621775/4		08/03/2023 16:12	1	R_6787bb.D	DB-624 (60.25) 0.25 (mm)
CCV 280-621775/3		08/03/2023 16:33	1	R_6788a.D	DB-624 (60.25) 0.25 (mm)
LCS 280-621775/5		08/03/2023 16:33	1	R_6788b.D	DB-624 (60.25) 0.25 (mm)
LCSD 280-621775/6		08/03/2023 17:14	1	R_6789.D	DB-624 (60.25) 0.25 (mm)
LCSD 280-621775/7		08/03/2023 17:35	1	R_6790.D	DB-624 (60.25) 0.25 (mm)
MB 280-621775/9		08/03/2023 18:17	1	R_6792.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 18:46	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 19:07	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 19:28	1		DB-624 (60.25) 0.25 (mm)
280-179478-4	RW-8048P-20230721	08/03/2023 19:53	1	R_6796.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 20:14	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 20:35	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 20:56	1		DB-624 (60.25) 0.25 (mm)
280-179478-14	PA-1-20230722	08/03/2023 21:17	1	R_6800.D	DB-624 (60.25) 0.25 (mm)
280-179478-16	PA-1-Q-20230722	08/03/2023 21:37	1	R_6801.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 21:58	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 22:19	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 22:40	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 23:01	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 23:22	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/03/2023 23:42	1		DB-624 (60.25) 0.25 (mm)
280-179478-4 MS	RW-8048P-20230721 MS	08/04/2023 00:03	1	R_6808.D	DB-624 (60.25) 0.25 (mm)
280-179478-4 MSD	RW-8048P-20230721 MSD	08/04/2023 00:24	1	R_6809.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 00:45	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 01:05	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 01:26	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 01:47	1		DB-624 (60.25) 0.25 (mm)
CCVC 280-621775/33		08/04/2023 02:07	1		DB-624 (60.25) 0.25 (mm)
CCVC 280-621775/34		08/04/2023 02:28	1		DB-624 (60.25) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins DenverJob No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_R1Start Date: 08/04/2023 15:54Analysis Batch Number: 621894End Date: 08/05/2023 01:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621894/1		08/04/2023 15:54	1	R_6844a.D	DB-624 (60.25) 0.25 (mm)
CCV 280-621894/2		08/04/2023 15:54	1	R_6844b.D	DB-624 (60.25) 0.25 (mm)
LCS 280-621894/4		08/04/2023 15:54	1	R_6844c.D	DB-624 (60.25) 0.25 (mm)
CCV 280-621894/3		08/04/2023 16:16	1	R_6845a.D	DB-624 (60.25) 0.25 (mm)
LCS 280-621894/5		08/04/2023 16:16	1	R_6845b.D	DB-624 (60.25) 0.25 (mm)
LCSD 280-621894/6		08/04/2023 17:00	1	R_6846.D	DB-624 (60.25) 0.25 (mm)
LCSD 280-621894/7		08/04/2023 17:21	1	R_6847.D	DB-624 (60.25) 0.25 (mm)
MB 280-621894/9		08/04/2023 18:03	1	R_6849.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 18:24	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 19:10	1		DB-624 (60.25) 0.25 (mm)
280-179478-11	TB-02-20230723	08/04/2023 19:31	1	R_6854.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 19:52	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 20:13	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 20:34	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 20:55	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 21:16	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 21:37	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 21:57	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 22:18	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 22:39	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 23:00	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 23:20	1		DB-624 (60.25) 0.25 (mm)
280-179478-12	PA-8-77-87-20230723	08/04/2023 23:41	1	R_6866.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 00:02	100		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 00:22	100		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 00:43	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 01:04	1		DB-624 (60.25) 0.25 (mm)
CCVC 280-621894/35		08/05/2023 01:24	1		DB-624 (60.25) 0.25 (mm)
CCVC 280-621894/36		08/05/2023 01:45	1		DB-624 (60.25) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins DenverJob No.: 280-179478-1

SDG No.: _____

Instrument ID: VMS_MS1Start Date: 08/04/2023 17:58Analysis Batch Number: 621922End Date: 08/05/2023 09:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 280-621922/1 RADL		08/04/2023 17:58	1	MS1_2875a.D	DB-624 (60.25) 0.25 (mm)
CCV 280-621922/2		08/04/2023 18:19	1	MS1_2876.D	DB-624 (60.25) 0.25 (mm)
LCS 280-621922/4		08/04/2023 18:19	1	MS1_2876a.D	DB-624 (60.25) 0.25 (mm)
CCV 280-621922/3		08/04/2023 18:40	1	MS1_2877.D	DB-624 (60.25) 0.25 (mm)
LCS 280-621922/5		08/04/2023 18:40	1	MS1_2877a.D	DB-624 (60.25) 0.25 (mm)
LCSD 280-621922/6		08/04/2023 19:01	1	MS1_2878.D	DB-624 (60.25) 0.25 (mm)
LCSD 280-621922/7		08/04/2023 19:22	1	MS1_2879.D	DB-624 (60.25) 0.25 (mm)
MB 280-621922/9		08/04/2023 20:04	1	MS1_2881.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 21:06	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 21:27	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 21:48	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 22:09	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 22:30	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 22:51	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 23:12	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 23:33	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/04/2023 23:55	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 00:16	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 00:37	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 00:58	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 01:20	1		DB-624 (60.25) 0.25 (mm)
280-179478-13	MW-116S-20230723	08/05/2023 01:41	1	MS1_2896.D	DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 02:02	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 02:24	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 02:45	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 03:06	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 03:27	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 03:49	10		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 04:10	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 04:31	1		DB-624 (60.25) 0.25 (mm)
CCVC 280-621922/35		08/05/2023 04:52	1		DB-624 (60.25) 0.25 (mm)
CCVC 280-621922/36		08/05/2023 05:13	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 05:56	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 06:17	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 06:38	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 06:59	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 07:20	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 07:41	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 08:02	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 08:24	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 08:45	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 09:06	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 09:27	1		DB-624 (60.25) 0.25 (mm)
ZZZZZ		08/05/2023 09:48	1		DB-624 (60.25) 0.25 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 570124 Batch Start Date: 03/29/22 15:57 Batch Analyst: Pepping, Andrew JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	mv-Cent BFB 00004	mv-Cent IS 00006	mv-IS_SS 00036	MV-Supp A 00064
BFB 280-570124/1		8260D		2 uL	2 uL	5 uL			
STD1 280-570124/14 IC		8260D		5 mL	5 mL		5 uL		1 uL
STD2 280-570124/15 IC		8260D		5 mL	5 mL		5 uL		2 uL
STD5 280-570124/16 IC		8260D		5 mL	5 mL		5 uL		5 uL
STD10 280-570124/17 IC		8260D		5 mL	5 mL		5 uL		10 uL
STD50 280-570124/18 IC		8260D		5 mL	5 mL		5 uL		50 uL
STD75 280-570124/19 IC		8260D		5 mL	5 mL		5 uL		75 uL
STD100 280-570124/20 IC		8260D		5 mL	5 mL		5 uL		100 uL
STD200 280-570124/21 IC		8260D		5 mL	5 mL		5 uL		200 uL
ICV 280-570124/22		8260D		5 mL	5 mL			5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	MV-Supp B 00048					
BFB 280-570124/1		8260D							
STD1 280-570124/14 IC		8260D							
STD2 280-570124/15 IC		8260D							
STD5 280-570124/16 IC		8260D							

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 570124 Batch Start Date: 03/29/22 15:57 Batch Analyst: Pepping, Andrew JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	MV-Supp B 00048					
STD10 280-570124/17 IC		8260D							
STD50 280-570124/18 IC		8260D							
STD75 280-570124/19 IC		8260D							
STD100 280-570124/20 IC		8260D							
STD200 280-570124/21 IC		8260D							
ICV 280-570124/22		8260D		50 uL					

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 597846 Batch Start Date: 12/28/22 07:14 Batch Analyst: Sunlee, Claire KBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	mv-Cent BFB 00004	mv-Cent IS 00007	MV-Supp A 00076	MV-Supp B 00057
BFB 280-597846/1		8260D		5 mL	5 mL	5 uL			
STD1 280-597846/12 IC		8260D		5 mL	5 mL		5 uL	1 uL	
STD2 280-597846/13 IC		8260D		5 mL	5 mL		5 uL	2 uL	
STD5 280-597846/14 IC		8260D		5 mL	5 mL		5 uL	5 uL	
STD10 280-597846/15 IC		8260D		5 mL	5 mL		5 uL	10 uL	
STD50 280-597846/16 IC		8260D		5 mL	5 mL		5 uL	50 uL	
STD75 280-597846/17 IC		8260D		5 mL	5 mL		5 uL	75 uL	
STD100 280-597846/18 IC		8260D		5 mL	5 mL		5 uL	100 uL	
STD200 280-597846/19 IC		8260D		5 mL	5 mL		5 uL	100 uL	
ICV 280-597846/20		8260D		5 mL	5 mL		5 uL		50 uL

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 616689 Batch Start Date: 06/19/23 07:01 Batch Analyst: Dobransky, Michael EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	mv-Cent BFB 00005	mv-Cent IS 00007	MV-Supp A 00082	MV-Supp B 00063
BFB 280-616689/1		8260D		2 uL	2 uL	5 uL			
STD 280-616689/21 IC		8260D		5 mL	5 mL		5 uL		200 uL
STD 280-616689/22 IC		8260D		5 mL	5 mL		5 uL		100 uL
STD 280-616689/23 IC		8260D		5 mL	5 mL		5 uL		75 uL
STD 280-616689/24 IC		8260D		5 mL	5 mL		5 uL		50 uL
STD 280-616689/25 IC		8260D		5 mL	5 mL		5 uL		10 uL
STD 280-616689/26 IC		8260D		5 mL	5 mL		5 uL		5 uL
STD 280-616689/27 IC		8260D		5 mL	5 mL		5 uL		2 uL
STD 280-616689/28 IC		8260D		5 mL	5 mL		5 uL		1 uL
ICV 280-616689/29		8260D		5 mL	5 mL		5 uL	50 uL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621220 Batch Start Date: 07/30/23 15:30 Batch Analyst: Wickham, Tom ABatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Cal Dil Std 00214	mv-Cent BFB 00005	MV-Gas A 00160	MV-Gas B 00142
BFB 280-621220/1		8260D		2 uL	2 uL		5 uL		
IC 280-621220/13		8260D		5 mL	5 mL			40 uL	
IC 280-621220/14		8260D		5 mL	5 mL			20 uL	
IC 280-621220/15		8260D		5 mL	5 mL			15 uL	
ICIS 280-621220/16		8260D		5 mL	5 mL			10 uL	
IC 280-621220/17		8260D		5 mL	5 mL			2 uL	
IC 280-621220/18		8260D		5 mL	5 mL			1 uL	
IC 280-621220/19		8260D		5 mL	5 mL	20 uL			
IC 280-621220/20		8260D		5 mL	5 mL	10 uL			
IC 280-621220/21		8260D		5 mL	5 mL	5 uL			
ICV 280-621220/22		8260D		5 mL	5 mL				10 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMain B 00088	MV-MegaMainA 00092			
BFB 280-621220/1		8260D							
IC 280-621220/13		8260D		5 uL		100 uL			
IC 280-621220/14		8260D		5 uL		50 uL			
IC 280-621220/15		8260D		5 uL		37.5 uL			
ICIS 280-621220/16		8260D		5 uL		25 uL			
IC 280-621220/17		8260D		5 uL		5 uL			
IC 280-621220/18		8260D		5 uL		2.5 uL			
IC 280-621220/19		8260D		5 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621220 Batch Start Date: 07/30/23 15:30 Batch Analyst: Wickham, Tom ABatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMain B 00088	MV-MegaMainA 00092			
IC 280-621220/20		8260D		5 uL					
IC 280-621220/21		8260D		5 uL					
ICV 280-621220/22		8260D		5 uL	25 uL				

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621383 Batch Start Date: 08/01/23 08:14 Batch Analyst: Ornelas, GabrielBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Cal Dil Std 00216	mv-Cent BFB 00005	MV-Gas A 00161	MV-Gas B 00142
BFB 280-621383/1		8260D		2 uL	2 uL		5 uL		
IC 280-621383/13		8260D		5 mL	5 mL			40 uL	
IC 280-621383/14		8260D		5 mL	5 mL			20 uL	
IC 280-621383/15		8260D		5 mL	5 mL			15 uL	
ICIS 280-621383/16		8260D		5 mL	5 mL			10 uL	
IC 280-621383/17		8260D		5 mL	5 mL			2 uL	
IC 280-621383/18		8260D		5 mL	5 mL			1 uL	
IC 280-621383/19		8260D		5 mL	5 mL	20 uL			
IC 280-621383/20		8260D		5 mL	5 mL	10 uL			
IC 280-621383/21		8260D		5 mL	5 mL	5 uL			
ICV 280-621383/22		8260D		5 mL	5 mL				10 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMain B 00088	MV-MegaMainA 00092			
BFB 280-621383/1		8260D							
IC 280-621383/13		8260D		5 uL		100 uL			
IC 280-621383/14		8260D		5 uL		50 uL			
IC 280-621383/15		8260D		5 uL		37.5 uL			
ICIS 280-621383/16		8260D		5 uL		25 uL			
IC 280-621383/17		8260D		5 uL		5 uL			
IC 280-621383/18		8260D		5 uL		2.5 uL			
IC 280-621383/19		8260D		5 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621383 Batch Start Date: 08/01/23 08:14 Batch Analyst: Ornelas, GabrielBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMain B 00088	MV-MegaMainA 00092			
IC 280-621383/20		8260D		5 uL					
IC 280-621383/21		8260D		5 uL					
ICV 280-621383/22		8260D		5 uL	25 uL				

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621390 Batch Start Date: 08/01/23 07:18 Batch Analyst: Dobransky, Michael EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Cal Dil Std 00211	mv-Cent BFB 00005	MV-Gas A 00159	MV-Gas B 00141
BFB 280-621390/1		8260D		2 uL	2 uL		5 uL		
IC 280-621390/13		8260D		5 mL	5 mL				40 uL
IC 280-621390/14		8260D		5 mL	5 mL				20 uL
IC 280-621390/15		8260D		5 mL	5 mL				15 uL
ICIS 280-621390/16		8260D		5 mL	5 mL				10 uL
IC 280-621390/17		8260D		5 mL	5 mL				2 uL
IC 280-621390/18		8260D		5 mL	5 mL	50 uL			
IC 280-621390/19		8260D		5 mL	5 mL	20 uL			
IC 280-621390/20		8260D		5 mL	5 mL	10 uL			
IC 280-621390/21		8260D		5 mL	5 mL	5 uL			
ICV 280-621390/22		8260D		5 mL	5 mL			10 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00064	MV-MegaMain B 00088	MV-MegaMainA 00092			
BFB 280-621390/1		8260D							
IC 280-621390/13		8260D		5 uL	100 uL				
IC 280-621390/14		8260D		5 uL	50 uL				
IC 280-621390/15		8260D		5 uL	37.5 uL				
ICIS 280-621390/16		8260D		5 uL	25 uL				
IC 280-621390/17		8260D		5 uL	5 uL				
IC 280-621390/18		8260D		5 uL					
IC 280-621390/19		8260D		5 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621390 Batch Start Date: 08/01/23 07:18 Batch Analyst: Dobransky, Michael EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00064	MV-MegaMain B 00088	MV-MegaMainA 00092			
IC 280-621390/20		8260D		5 uL					
IC 280-621390/21		8260D		5 uL					
ICV 280-621390/22		8260D		5 uL		25 uL			

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621653 Batch Start Date: 08/03/23 06:24 Batch Analyst: Dobransky, Michael EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00005	MV-Gas B 00141
BFB 280-621653/1		8260D		2 uL	2 uL			5 uL	
CCV 280-621653/2		8260D		5 mL	5 mL				10 uL
CCV 280-621653/3		8260D		5 mL	5 mL				
LCS 280-621653/4		8260D		5 mL	5 mL				10 uL
LCSD 280-621653/5		8260D		5 mL	5 mL				10 uL
LCS 280-621653/6		8260D		5 mL	5 mL				
LCSD 280-621653/7		8260D		5 mL	5 mL				
MB 280-621653/9		8260D		5 mL	5 mL				
280-179478-A-15	EB-03-20230722	8260D	T	5 mL	5 mL	<2 SU	No		
280-179478-B-1	RW-8284P-20230720	8260D	T	5 mL	5 mL	<2 SU	No		
280-179478-A-2	RW-2076F-20230721	8260D	T	5 mL	5 mL	<2 SU	Yes		
280-179478-A-3	RW-2172H-20230721	8260D	T	5 mL	5 mL	<2 SU	No		
280-179478-A-5	RW-8012P-20230721	8260D	T	5 mL	5 mL	<2 SU	No		
280-179478-B-6	RW-7677P-20230721	8260D	T	5 mL	5 mL	<2 SU	Yes		
280-179478-A-7	RW-2213F-20230721	8260D	T	5 mL	5 mL	<2 SU	No		
280-179478-A-8	RW-7773P-20230721	8260D	T	5 mL	5 mL	<2 SU	No		
280-179478-A-9	RW-7549P-20230721	8260D	T	5 mL	5 mL	<2 SU	Yes		
280-179478-A-10	PA-4-100-110-20230722	8260D	T	5 mL	5 mL	<2 SU	No		

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00064	MV-MegaMain B 00088	MV-Supp B 00063			
BFB 280-621653/1		8260D							
CCV 280-621653/2		8260D		5 uL	25 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621653 Batch Start Date: 08/03/23 06:24 Batch Analyst: Dobransky, Michael EBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00064	MV-MegaMain B 00088	MV-Supp B 00063			
CCV 280-621653/3		8260D		5 uL		25 uL			
LCS 280-621653/4		8260D		5 uL	25 uL				
LCSD 280-621653/5		8260D		5 uL	25 uL				
LCS 280-621653/6		8260D		5 uL		25 uL			
LCSD 280-621653/7		8260D		5 uL		25 uL			
MB 280-621653/9		8260D		5 uL					
280-179478-A-15	EB-03-20230722	8260D	T	5 uL					
280-179478-B-1	RW-8284P-20230720	8260D	T	5 uL					
280-179478-A-2	RW-2076F-20230721	8260D	T	5 uL					
280-179478-A-3	RW-2172H-20230721	8260D	T	5 uL					
280-179478-A-5	RW-8012P-20230721	8260D	T	5 uL					
280-179478-B-6	RW-7677P-20230721	8260D	T	5 uL					
280-179478-A-7	RW-2213F-20230721	8260D	T	5 uL					
280-179478-A-8	RW-7773P-20230721	8260D	T	5 uL					
280-179478-A-9	RW-7549P-20230721	8260D	T	5 uL					
280-179478-A-10	PA-4-100-110-20230722	8260D	T	5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

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GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621775 Batch Start Date: 08/03/23 16:12 Batch Analyst: Dymerski, Samuel JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00005	MV-Gas A 00159
BFB 280-621775/1		8260D		2 uL	2 uL			5 uL	
CCV 280-621775/2		8260D		5 mL	5 mL				10 uL
CCV 280-621775/3		8260D		5 mL	5 mL				
LCS 280-621775/4		8260D		5 mL	5 mL				10 uL
LCS 280-621775/5		8260D		5 mL	5 mL				
LCSD 280-621775/6		8260D		5 mL	5 mL				10 uL
LCSD 280-621775/7		8260D		5 mL	5 mL				
MB 280-621775/9		8260D		5 mL	5 mL				
280-179478-A-14	PA-1-20230722	8260D	T	5 mL	5 mL	<2 SU	n		
280-179478-A-16	PA-1-Q-20230722	8260D	T	5 mL	5 mL	<2 SU	y		
280-179478-B-4 MS	RW-8048P-2023072 1	8260D	T	5 mL	5 mL	<2 SU	y		10 uL
280-179478-B-4 MSD	RW-8048P-2023072 1	8260D	T	5 mL	5 mL	<2 SU	y		10 uL
280-179478-C-4	RW-8048P-2023072 1	8260D	T	5 mL	5 mL	<2 SU	y		

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMainA 00092	MV-Supp A 00083			
BFB 280-621775/1		8260D							
CCV 280-621775/2		8260D		5 uL	25 uL				
CCV 280-621775/3		8260D		5 uL		25 uL			
LCS 280-621775/4		8260D		5 uL	25 uL				
LCS 280-621775/5		8260D		5 uL		25 uL			
LCSD 280-621775/6		8260D		5 uL	25 uL				
LCSD 280-621775/7		8260D		5 uL		25 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621775 Batch Start Date: 08/03/23 16:12 Batch Analyst: Dymerski, Samuel JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMainA 00092	MV-Supp A 00083			
MB 280-621775/9		8260D		5 uL					
280-179478-A-14	PA-1-20230722	8260D	T	5 uL					
280-179478-A-16	PA-1-Q-20230722	8260D	T	5 uL					
280-179478-B-4 MS	RW-8048P-2023072 1	8260D	T	5 uL	25 uL				
280-179478-B-4 MSD	RW-8048P-2023072 1	8260D	T	5 uL	25 uL				
280-179478-C-4	RW-8048P-2023072 1	8260D	T	5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621894 Batch Start Date: 08/04/23 15:54 Batch Analyst: Dymerski, Samuel JBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00005	MV-Gas A 00159
BFB 280-621894/1		8260D		2 uL	2 uL			5 uL	
CCV 280-621894/2		8260D		5 mL	5 mL				10 uL
CCV 280-621894/3		8260D		5 mL	5 mL				
LCS 280-621894/4		8260D		5 mL	5 mL				10 uL
LCS 280-621894/5		8260D		5 mL	5 mL				
LCSD 280-621894/6		8260D		5 mL	5 mL				10 uL
LCSD 280-621894/7		8260D		5 mL	5 mL				
MB 280-621894/9		8260D		5 mL	5 mL				
280-179478-B-11	TB-02-20230723	8260D	T	5 mL	5 mL	<2 SU	N		
280-179478-A-12	PA-8-77-87-20230723	8260D	T	5 mL	5 mL	<2 SU	N		

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMainA 00092	MV-Supp A 00083			
BFB 280-621894/1		8260D							
CCV 280-621894/2		8260D		5 uL	25 uL				
CCV 280-621894/3		8260D		5 uL		25 uL			
LCS 280-621894/4		8260D		5 uL	25 uL				
LCS 280-621894/5		8260D		5 uL		25 uL			
LCSD 280-621894/6		8260D		5 uL	25 uL				
LCSD 280-621894/7		8260D		5 uL		25 uL			
MB 280-621894/9		8260D		5 uL					
280-179478-B-11	TB-02-20230723	8260D	T	5 uL					
280-179478-A-12	PA-8-77-87-20230723	8260D	T	5 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621894 Batch Start Date: 08/04/23 15:54 Batch Analyst: Dymerski, Samuel JBatch Method: 8260D Batch End Date: _____

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621922 Batch Start Date: 08/04/23 17:58 Batch Analyst: Jones, Branden MBatch Method: 8260D Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	Headspace	mv-Cent BFB 00005	MV-Gas A 00161
BFB 280-621922/1		8260D		2 uL	2 uL			5 uL	
CCV 280-621922/2		8260D		5 mL	5 mL				10 uL
CCV 280-621922/3		8260D		5 mL	5 mL				
LCS 280-621922/4		8260D		5 mL	5 mL				10 uL
LCS 280-621922/5		8260D		5 mL	5 mL				
LCSD 280-621922/6		8260D		5 mL	5 mL				10 uL
LCSD 280-621922/7		8260D		5 mL	5 mL				
MB 280-621922/9		8260D		5 mL	5 mL				
280-179478-B-13	MW-116S-20230723	8260D	T	5 mL	5 mL	<2 SU	n		

Lab Sample ID	Client Sample ID	Method Chain	Basis	mv-IS_SS 00066	MV-MegaMainA 00092	MV-Supp A 00083			
BFB 280-621922/1		8260D							
CCV 280-621922/2		8260D		5 uL	25 uL				
CCV 280-621922/3		8260D		5 uL		25 uL			
LCS 280-621922/4		8260D		5 uL	25 uL				
LCS 280-621922/5		8260D		5 uL		25 uL			
LCSD 280-621922/6		8260D		5 uL	25 uL				
LCSD 280-621922/7		8260D		5 uL		25 uL			
MB 280-621922/9		8260D		5 uL					
280-179478-B-13	MW-116S-20230723	8260D	T	5 uL					

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Denver Job No.: 280-179478-1

SDG No.: _____

Batch Number: 621922 Batch Start Date: 08/04/23 17:58 Batch Analyst: Jones, Branden MBatch Method: 8260D Batch End Date: _____

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8260D

Page 2 of 2

Shipping and Receiving Documents

Eurofins TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record



Environment Testing
TestAmerica

280-179478 Chain of Custody

Client Information		Lab Pmt:		Carrier Tracking No(s):		COC No:	
Client Contact: Mary Lou Fox		Bleniulis, Dylan T.					
Company: CDM Smith, Inc.		E-Mail: Dylan.Bleniulis@eurofins.com				Page: 1 of 2	
Address: 14432 S.E. Eastgate Way Suite 100 City: Bellevue State Zip: WA, 98007 Phone: 425-519-8300 Email: FoxML@cdsmith.com		Due Date Requested: TAT Requested (days): 15 business days PO #: 108577 LNR3 WO #:		Analysis Requested		Job #:	
Project Name: Bannock Ft. Hall Mine LF, Idaho Site: Annual Offsite Groundwater		SSON#:		Field Filtered Sample (Yes or No)		Preservation Codes:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BTP=tissue, A=air)	Special Instructions/Note:	
RW-8284P-20230720	7/20/23	1035	G	W			
RW-2076F-20230721	7/21/23	1135	G	W			
RW-2172H-20230721	7/21/23	1340	G	W			
RW-8048P-20230721	7/21/23	1220	G	W			
RW-8012P-20230721	7/21/23	1410	G	W			
RW-7677P-20230721	7/21/23	1530	G	W			
RW-2213F-20230721	7/21/23	1525	G	W			
RW-7773P-20230721	7/21/23	1020	G	W			
RW-7549P-20230721	7/21/23	1040	G	W			
PA-4-100-110-20230722	7/22/23	1100	G	W			
TB-02-20230723	7/23/23	2100	G	W			
Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Polson B ☐ Unknown ☐ Radiological							
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:		Date/Time:		Received by:		Company:	
Relinquished by:		Date/Time:		Received by:		Company:	
Relinquished by:		Date/Time:		Received by:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) and Other Remarks: 3.9°C 8.0°C 12.0°C		Date/Time: 7-25-23 0945 Company: Bleniulis	

8/9/2023 4:24 PM

Login Sample Receipt Checklist

Client: CDM Smith Inc

Job Number: 280-179478-1

Login Number: 179478
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	False	Narrative to indicate if headspace container used for analysis.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix F

Time Series Plots

Chlorinated Ethenes and Geochemistry Time Series Plots -

Data filters

This report is filtered to only include:

- **MW-116S** from **Offsite Monitoring Well**
- Results from **01 January 2002** to **30 July 2023**

Graph notes

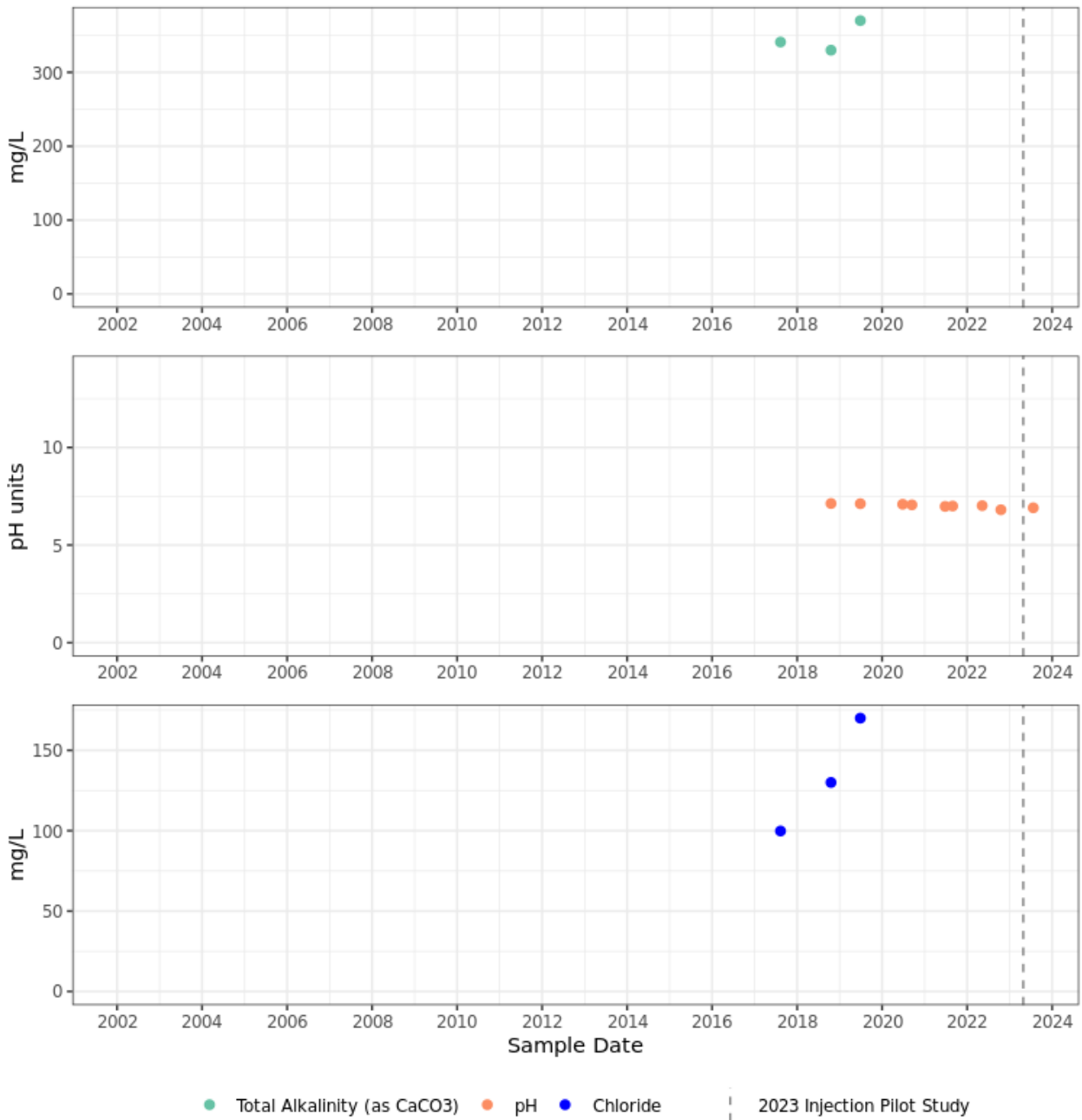
- When only the year is shown in the x-axis label, this represents the start of the year
- The molar concentration graphs only plot detected data
- ORP values that are negative cannot be put in to a log10 scale graph and will not show.

Well summaries

MW-116S

Water Quality

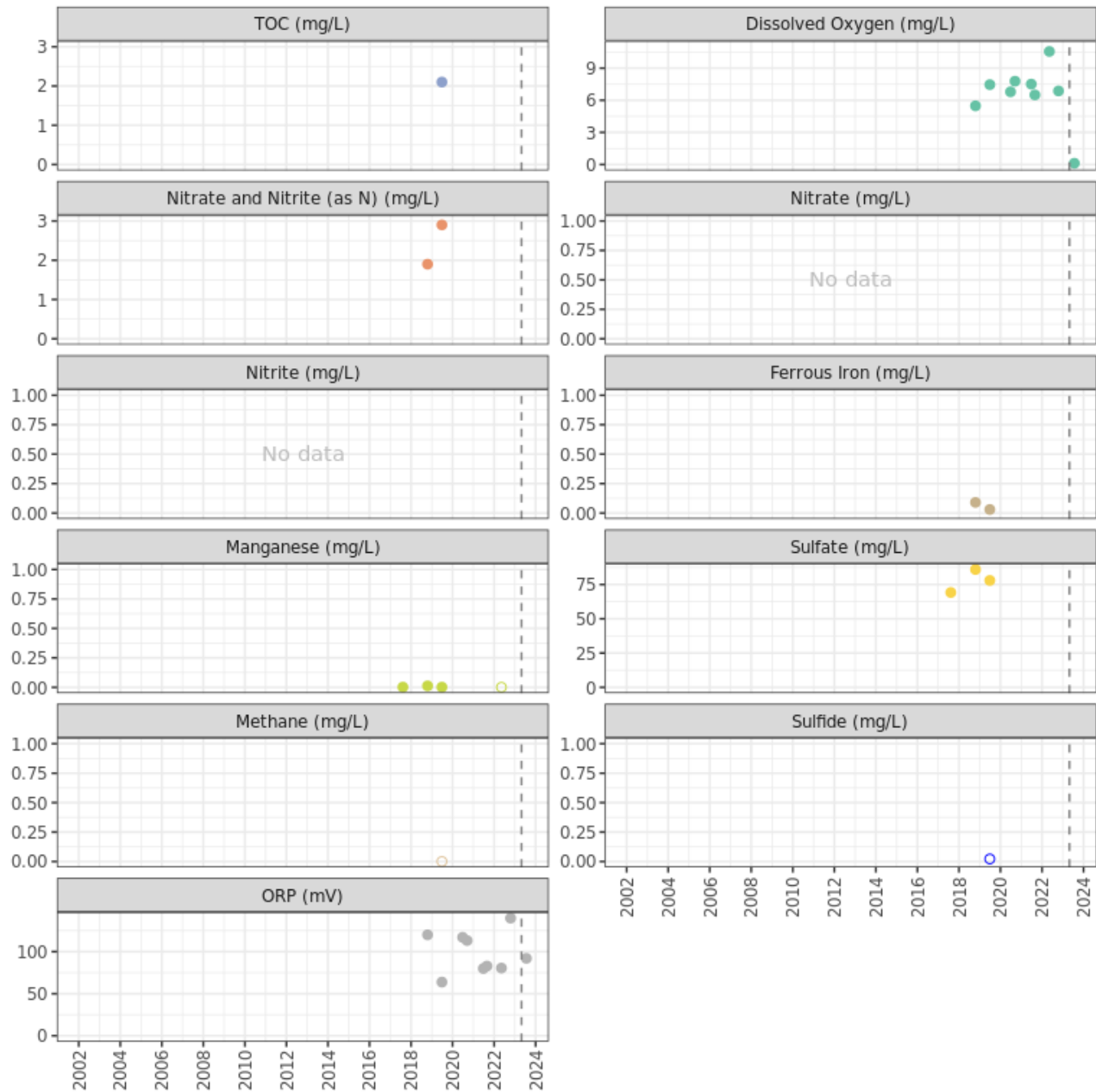
MW-116S Water Quality Parameters



TOC and Redox Parameters

MW-116S TOC and Redox Parameters

Mass Concentrations

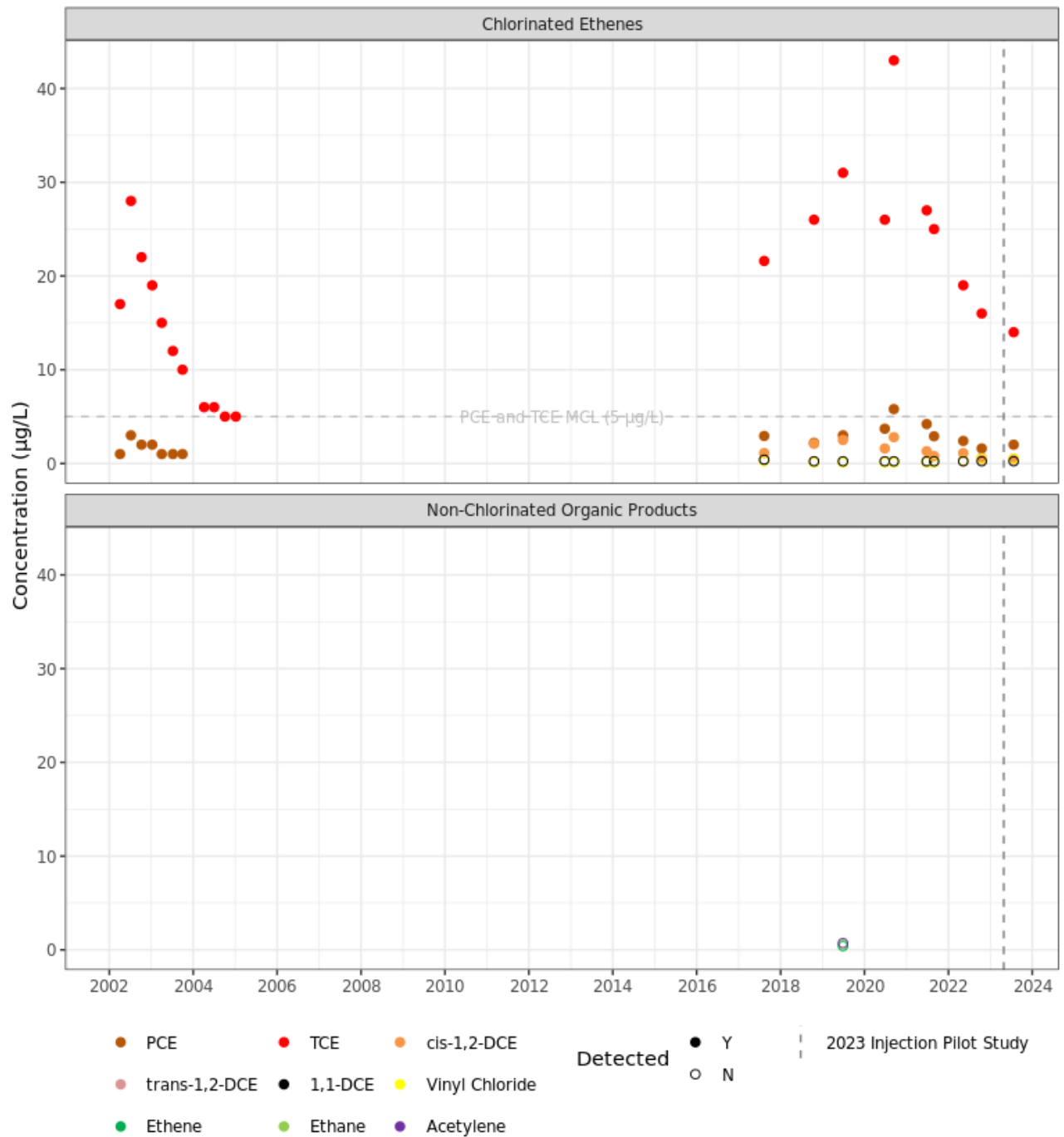


Detected ● Y ○ N

2023 Injection Pilot Study

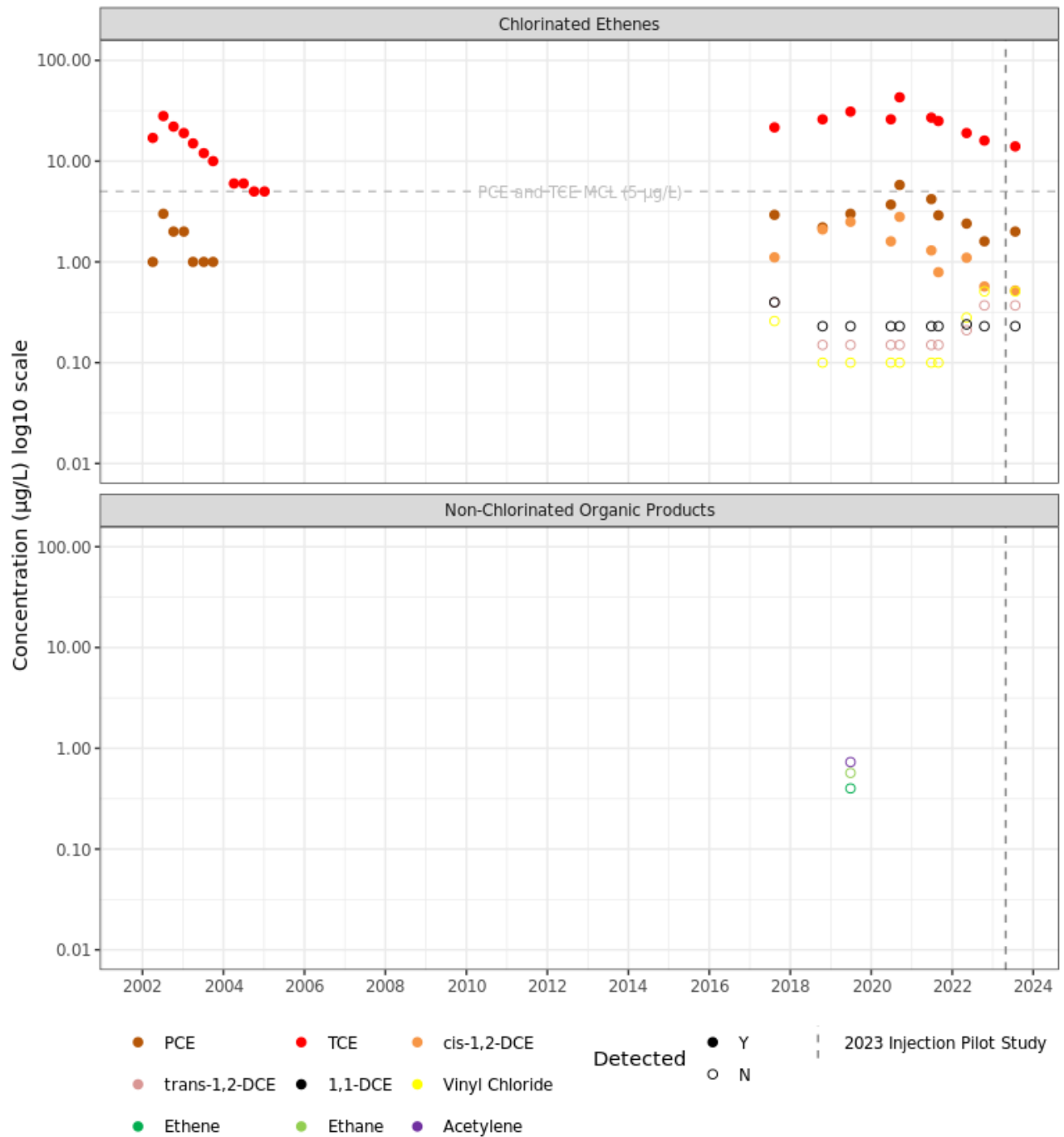
Chlorinated Ethene and Daughter Product Mass

MW-116S Chlorinated Ethene and Daughter Product



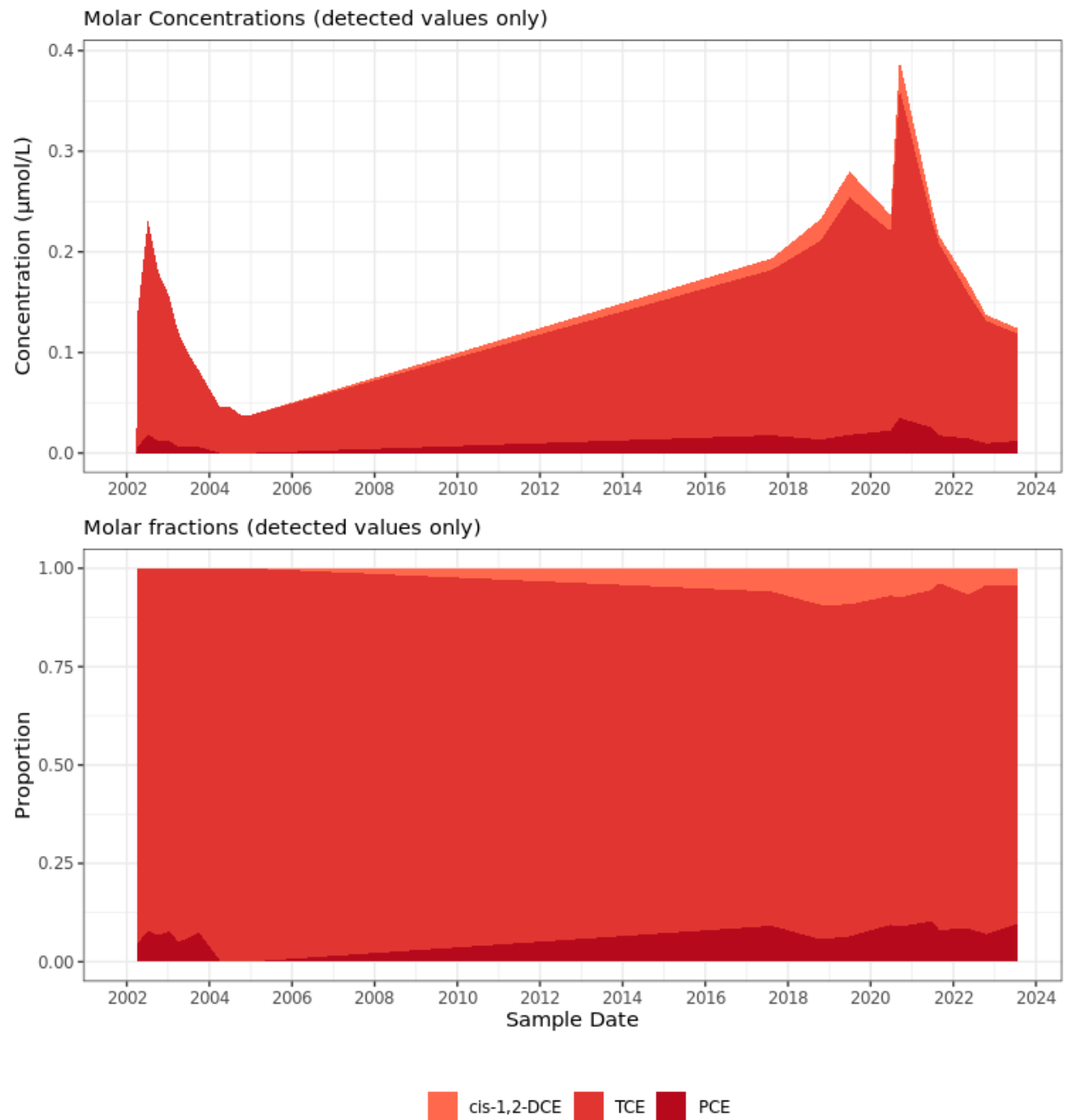
Chlorinated Ethene and Daughter Product Mass (log10)

MW-116S Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

MW-116S Chlorinated Ethene and Daughter Product



Chlorinated Ethenes and Geochemistry Time Series Plots -

Data filters

This report is filtered to only include:

- **PA-1-128.5-148.5, PA-3-47.5-67.5, PA-4-99.5-109.5, and PA-8-77-87** from **Pocatello City Monitoring Well**
- Results from **01 January 2002** to **30 July 2023**

Graph notes

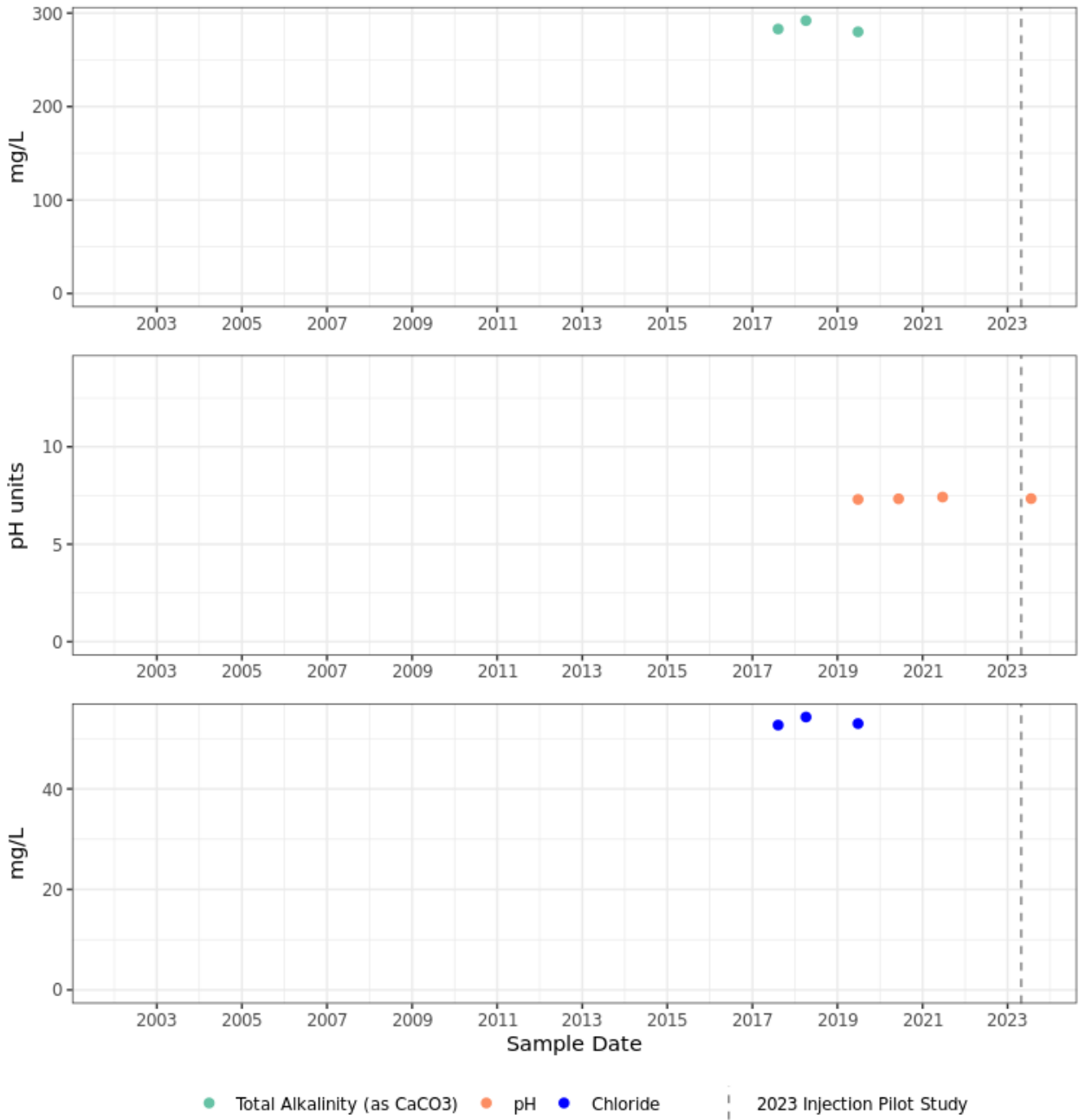
- When only the year is shown in the x-axis label, this represents the start of the year
- The molar concentration graphs only plot detected data
- ORP values that are negative cannot be put in to a log10 scale graph and will not show.

Well summaries

PA-1-128.5-148.5

Water Quality

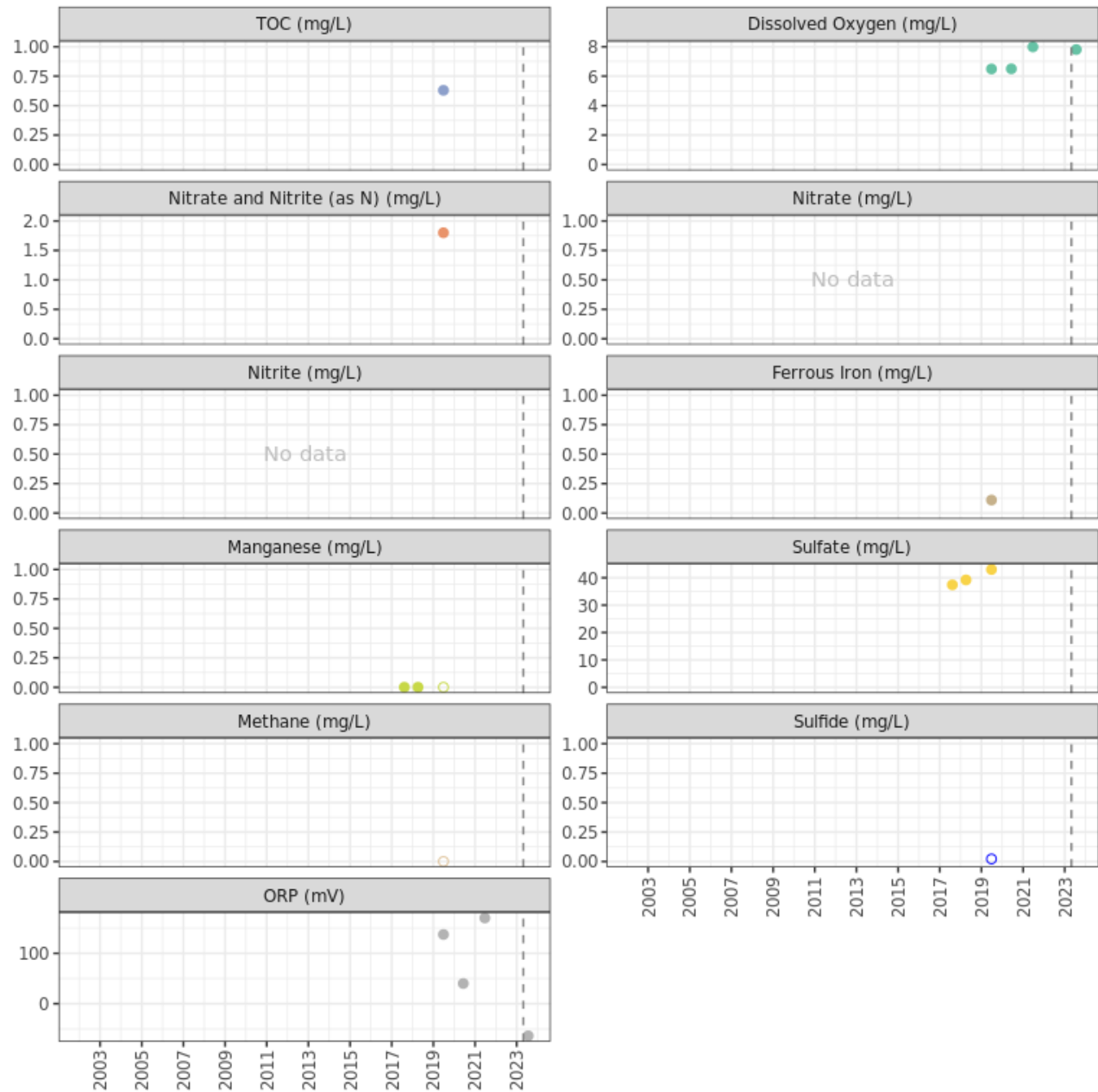
PA-1-128.5-148.5 Water Quality Parameters



TOC and Redox Parameters

PA-1-128.5-148.5 TOC and Redox Parameters

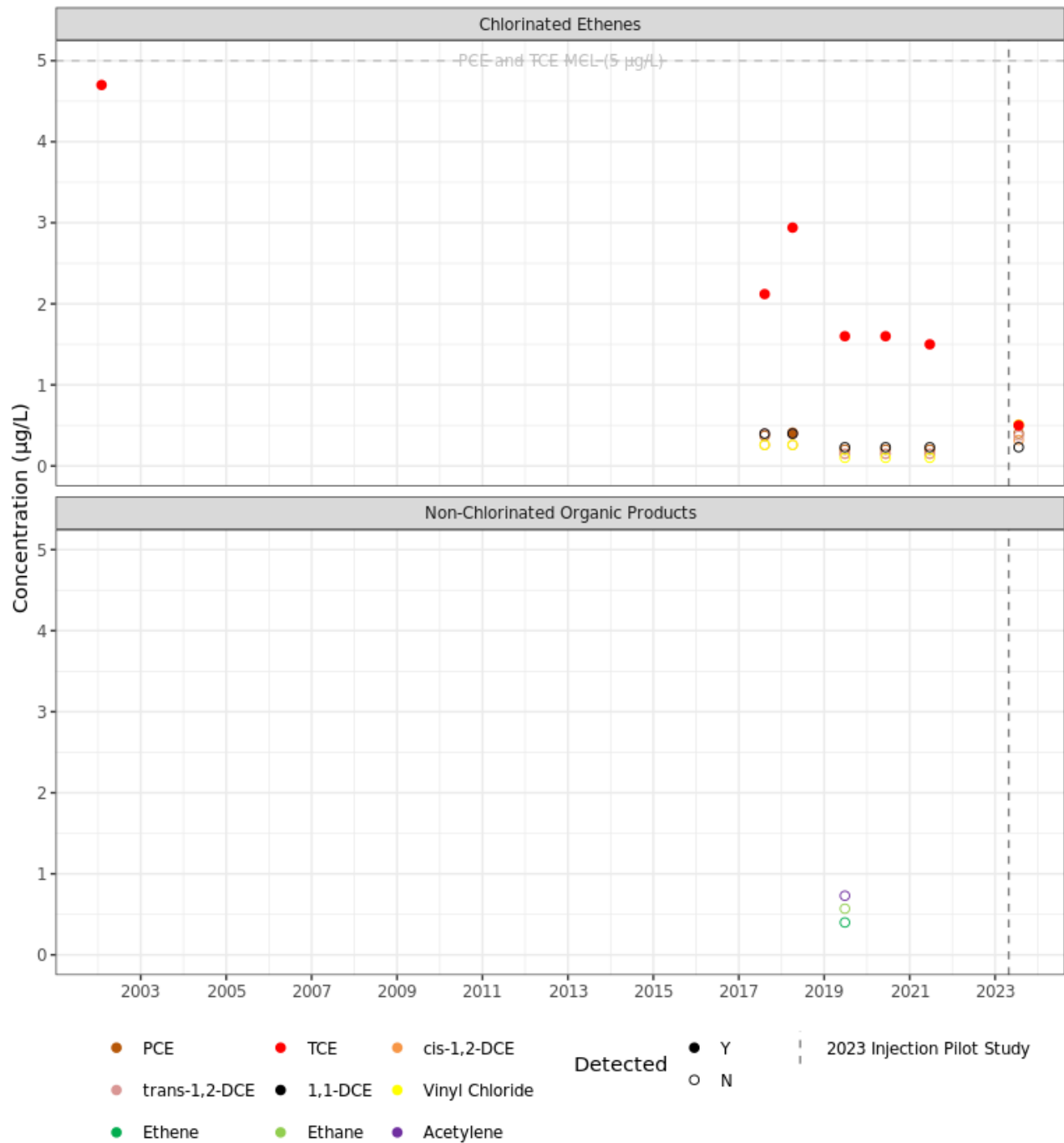
Mass Concentrations



Detected ● Y ○ N | 2023 Injection Pilot Study

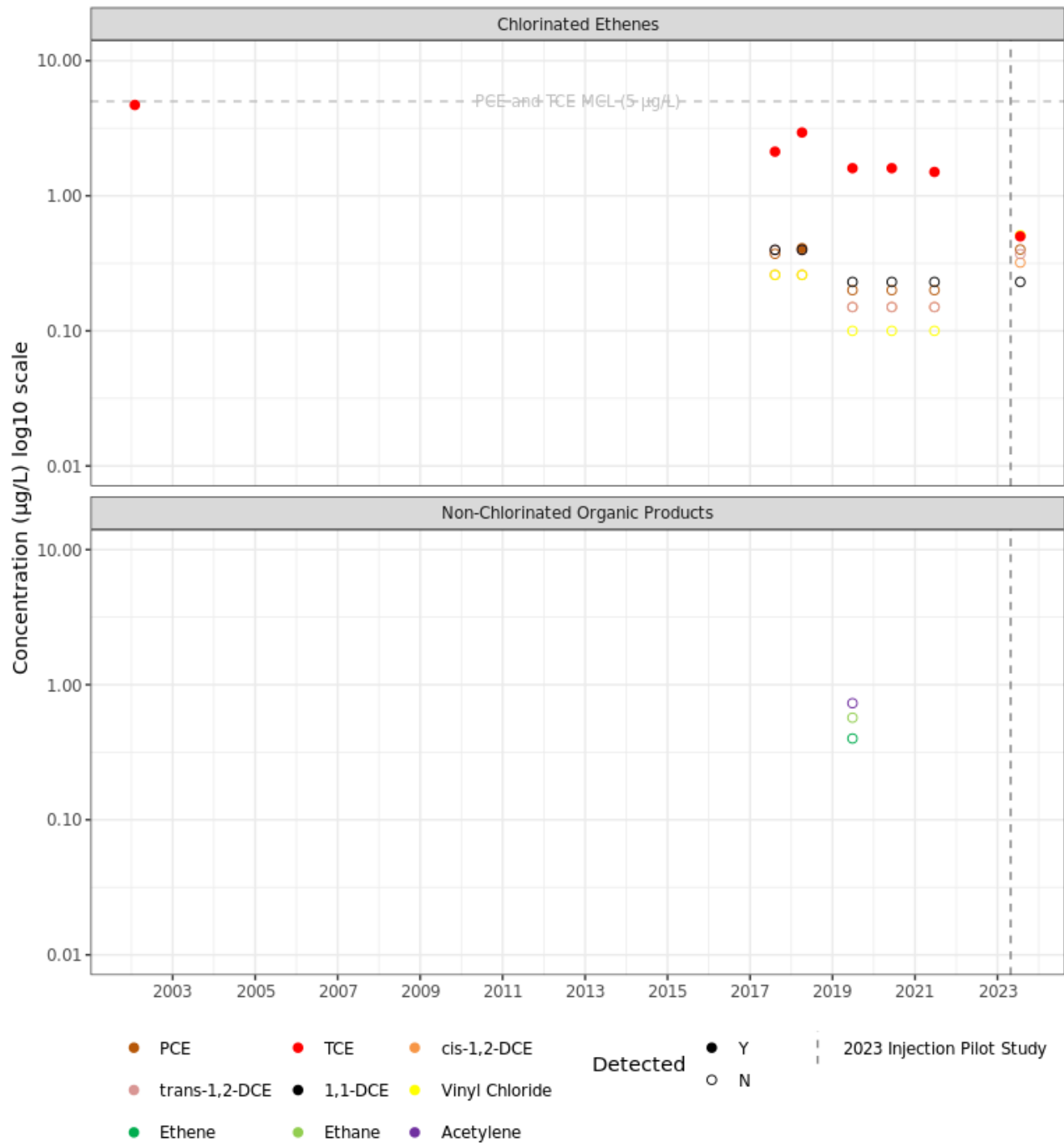
Chlorinated Ethene and Daughter Product Mass

PA-1-128.5-148.5 Chlorinated Ethene and Daughter Product



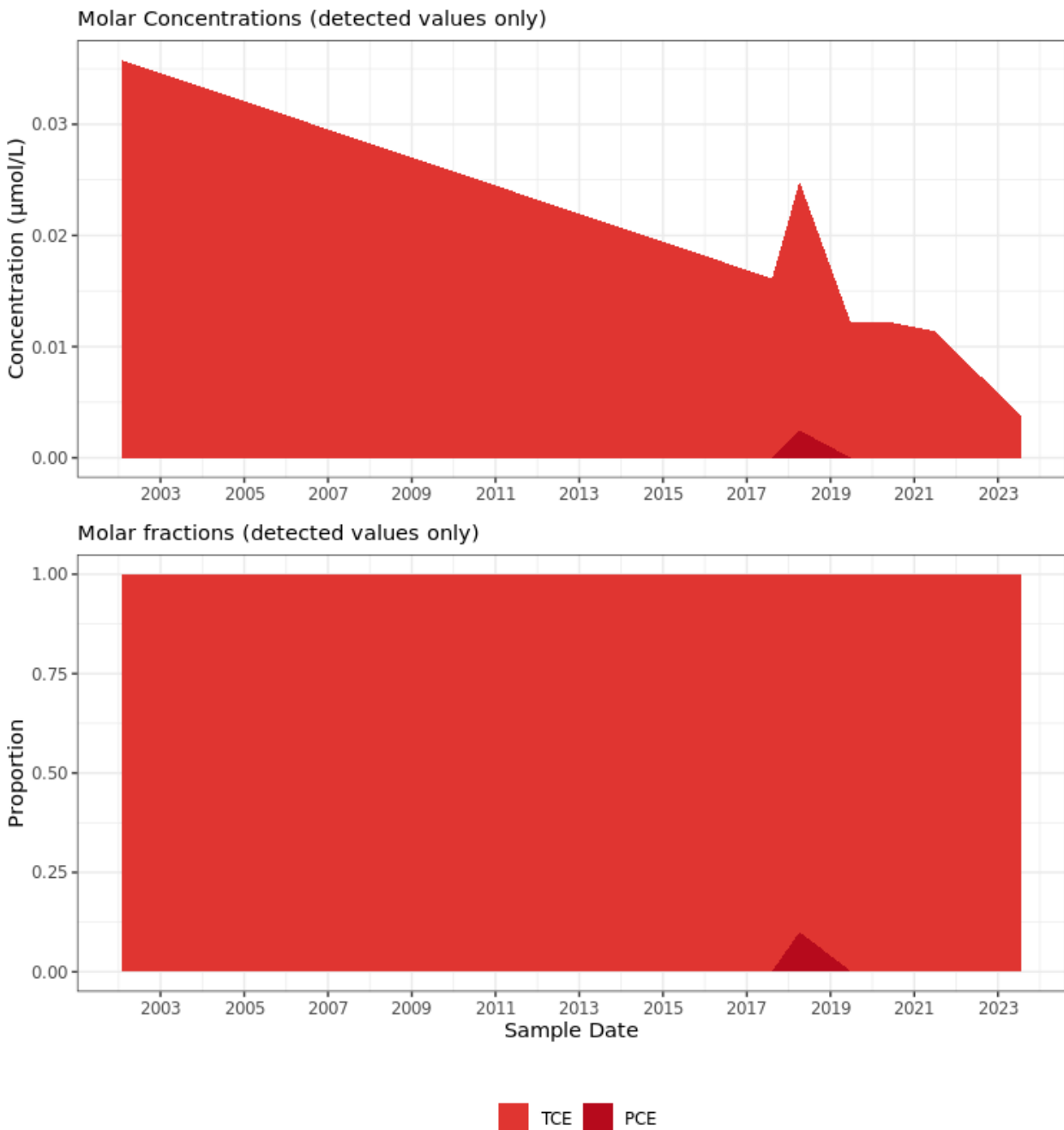
Chlorinated Ethene and Daughter Product Mass (log10)

PA-1-128.5-148.5 Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

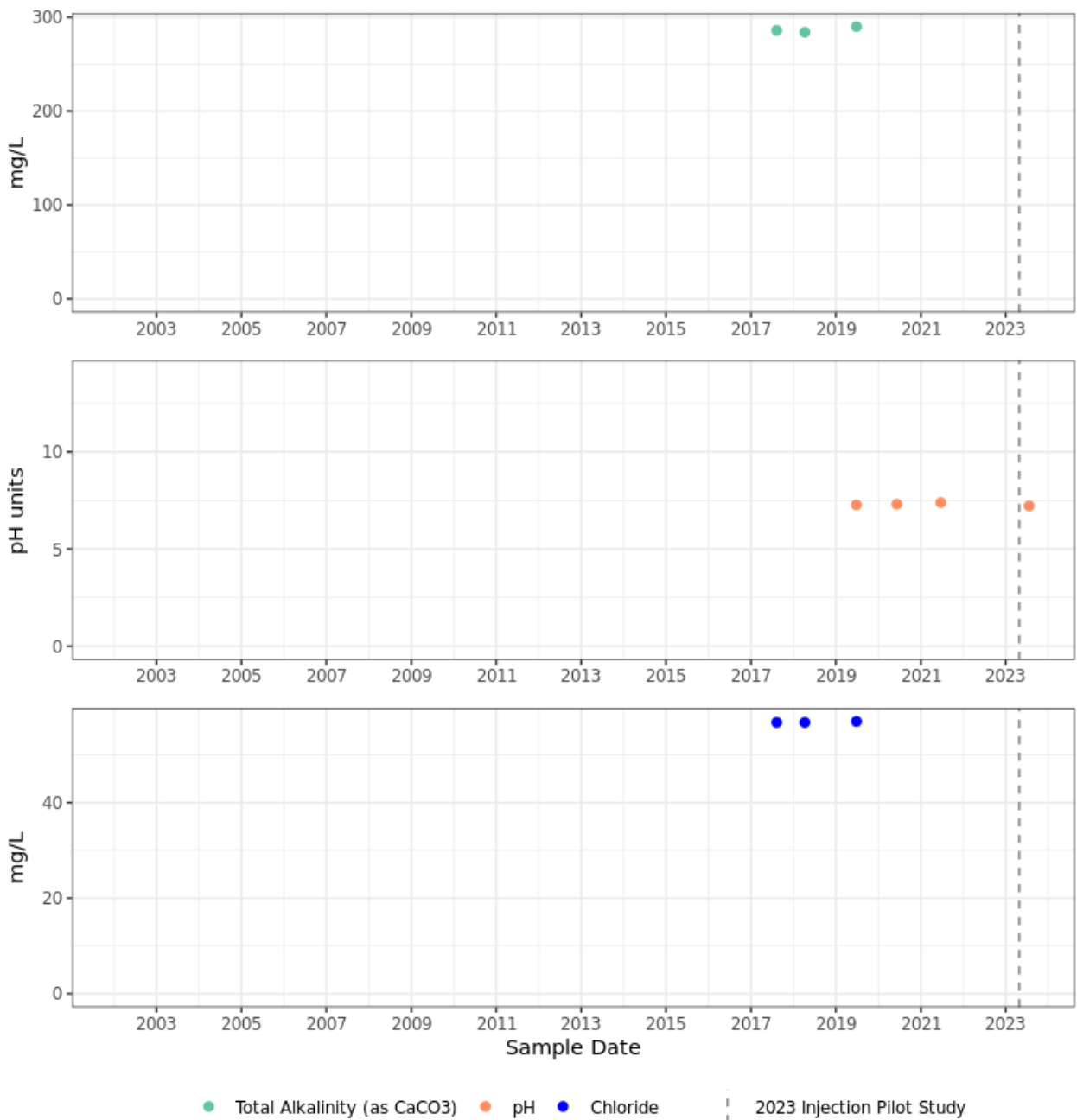
PA-1-128.5-148.5 Chlorinated Ethene and Daughter Product



PA-3-47.5-67.5

Water Quality

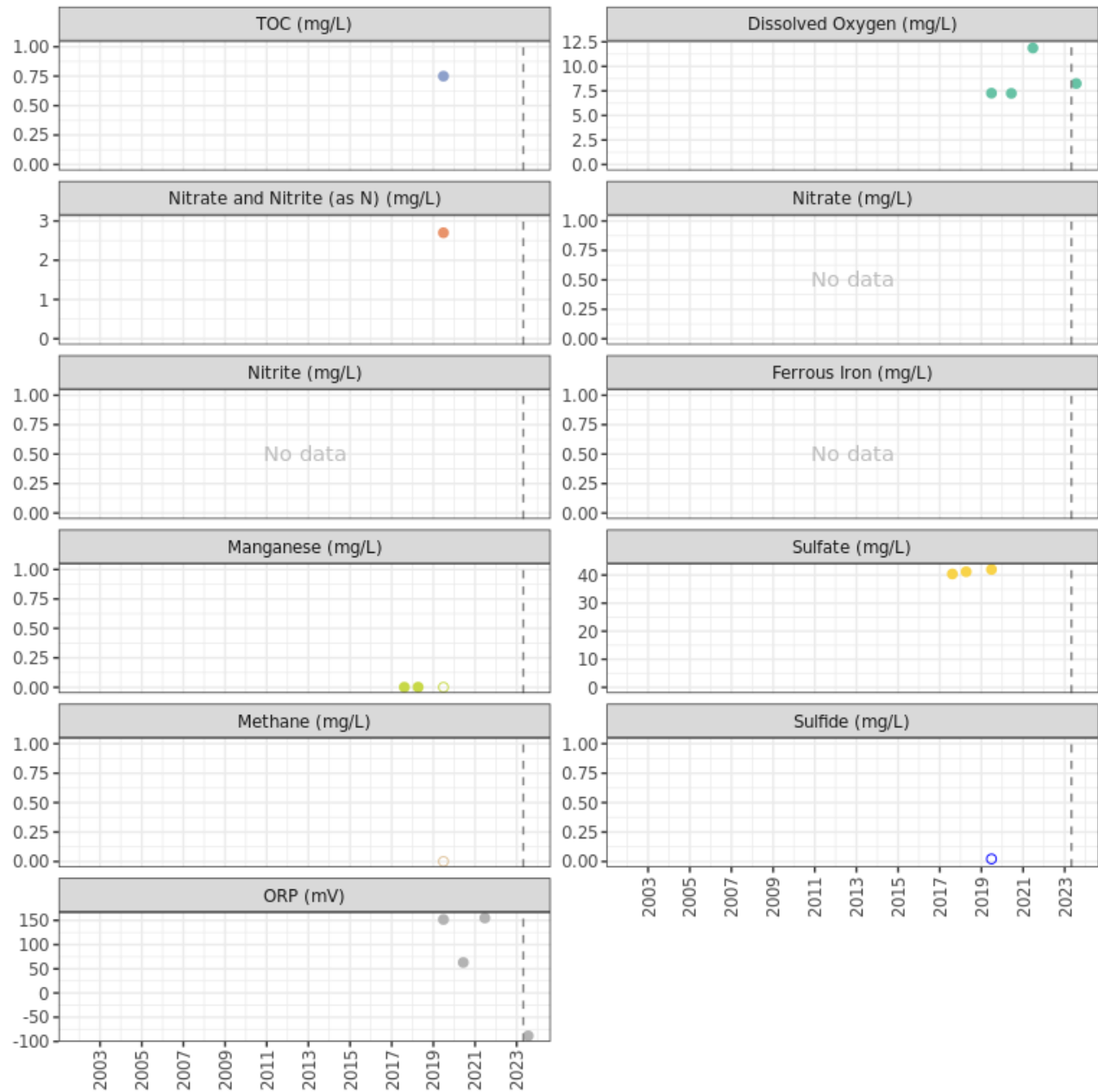
PA-3-47.5-67.5 Water Quality Parameters



TOC and Redox Parameters

PA-3-47.5-67.5 TOC and Redox Parameters

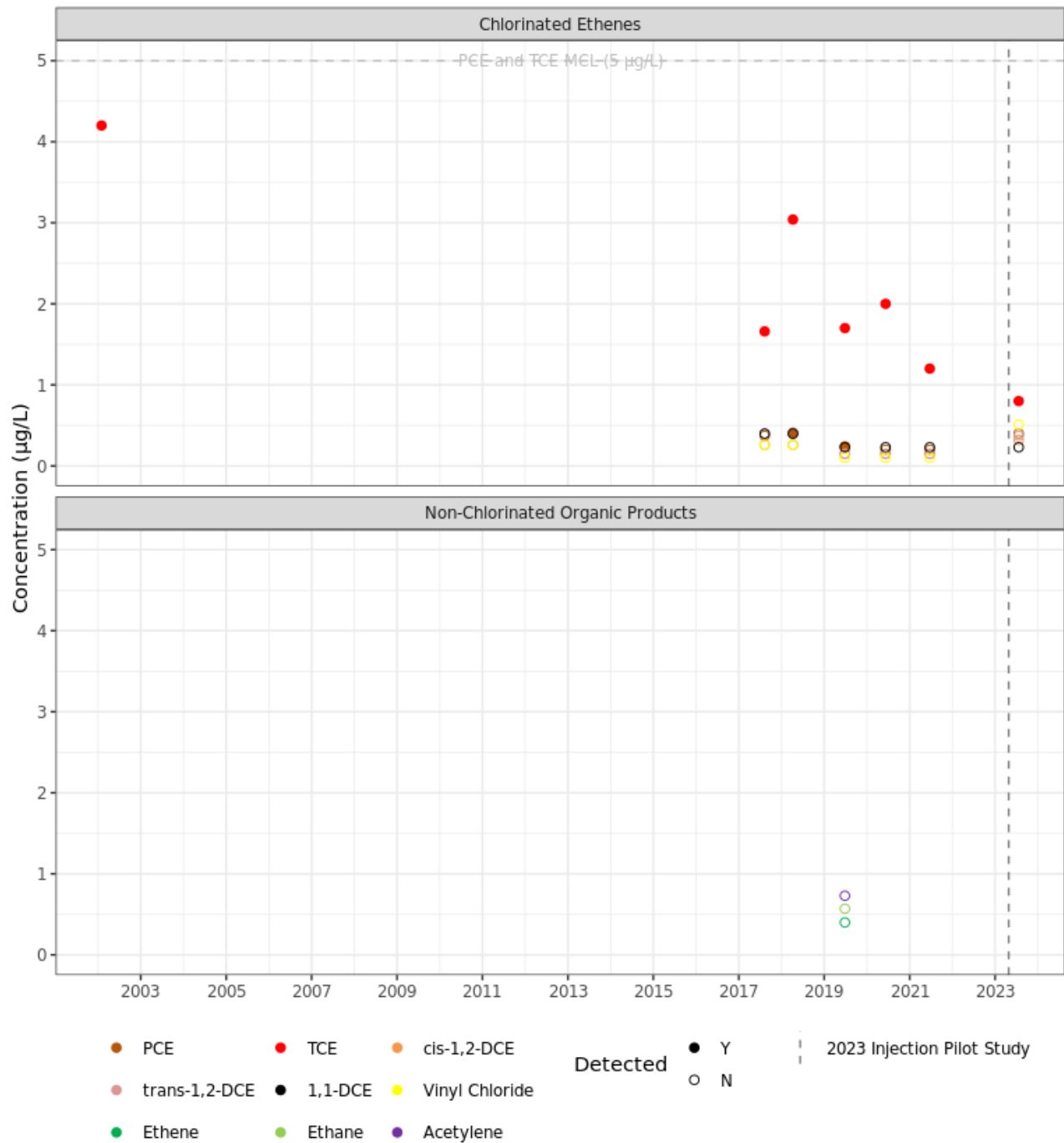
Mass Concentrations



Detected ● Y ○ N | 2023 Injection Pilot Study

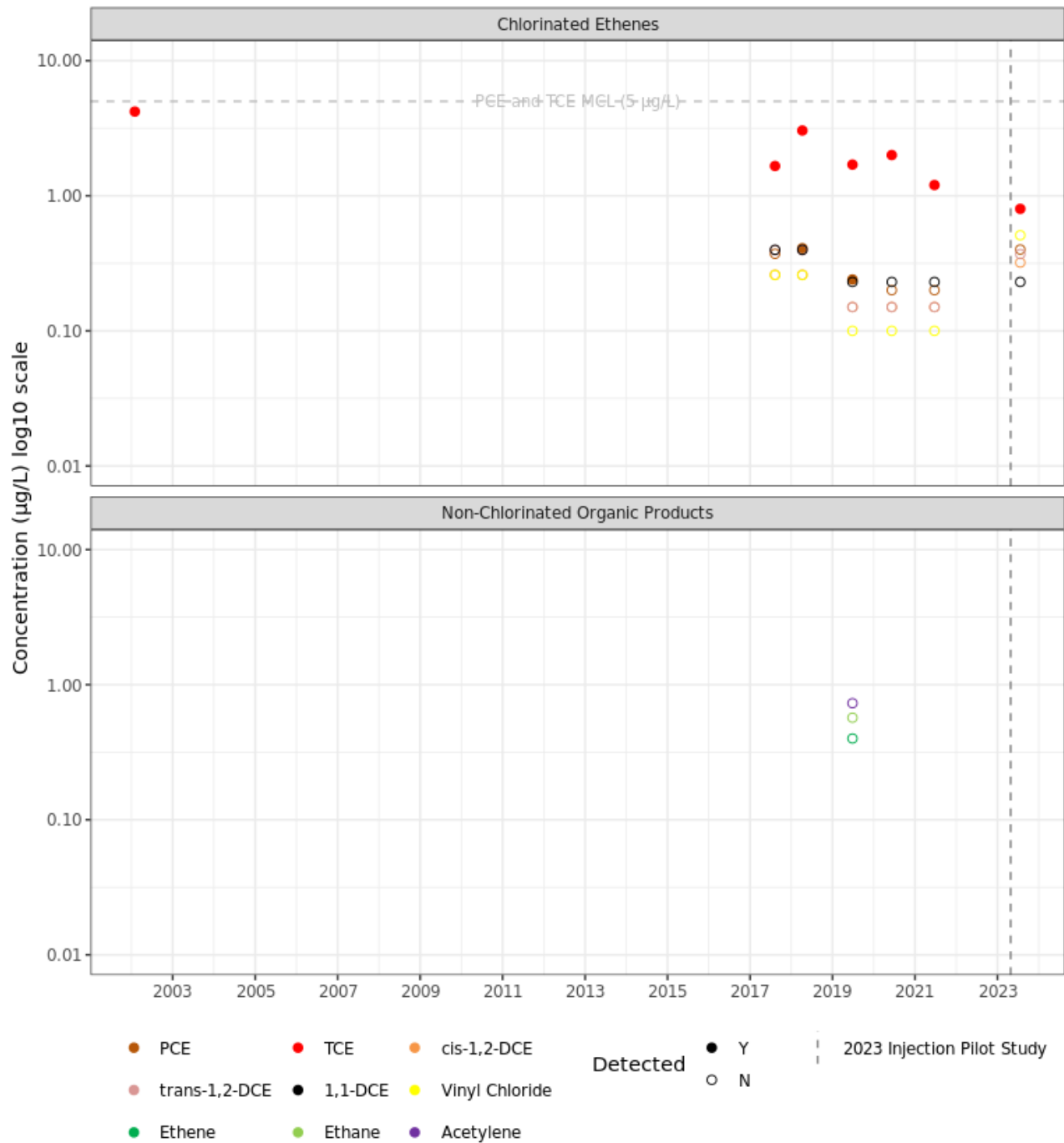
Chlorinated Ethene and Daughter Product Mass

PA-3-47.5-67.5 Chlorinated Ethene and Daughter Product



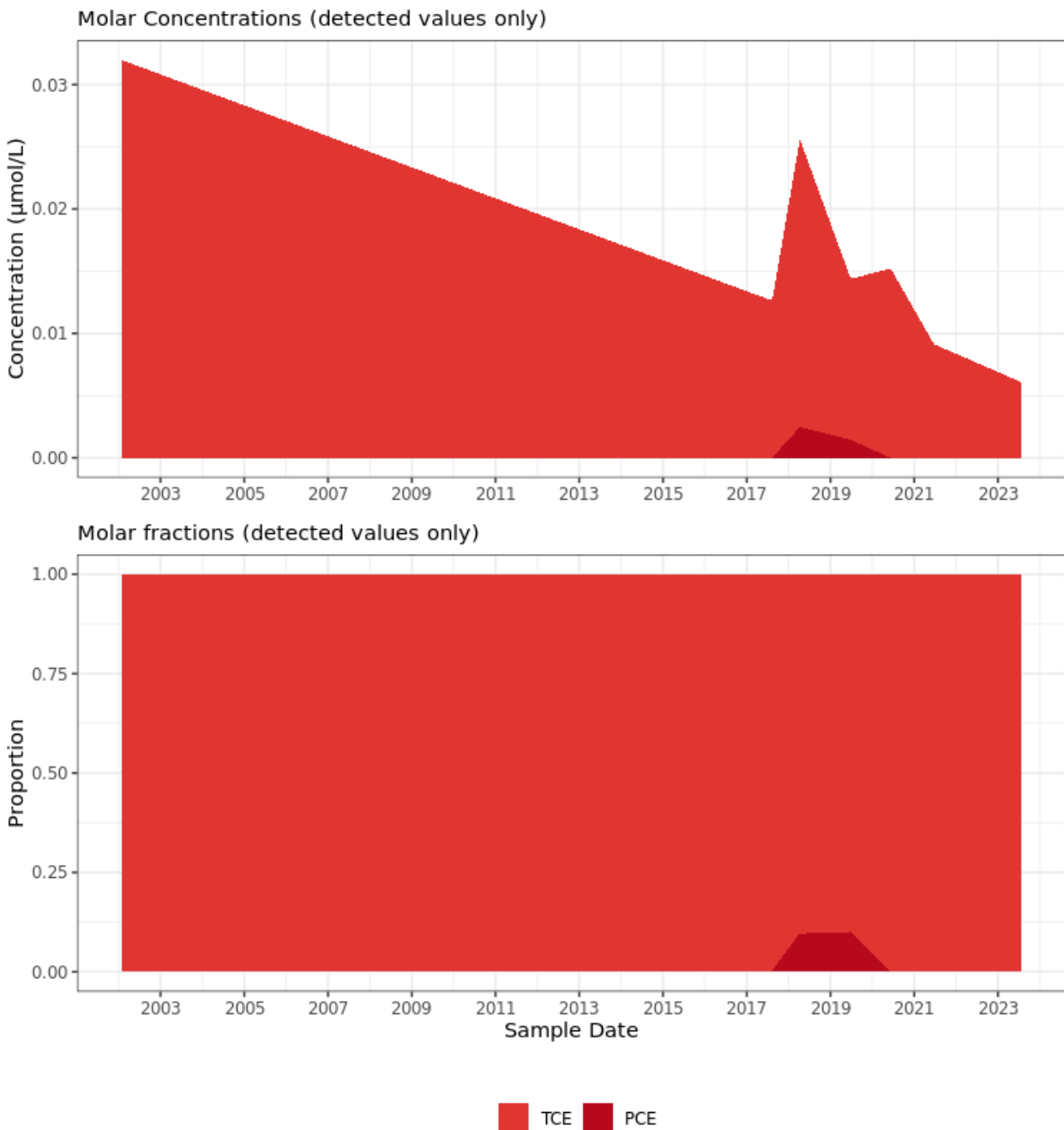
Chlorinated Ethene and Daughter Product Mass (log10)

PA-3-47.5-67.5 Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

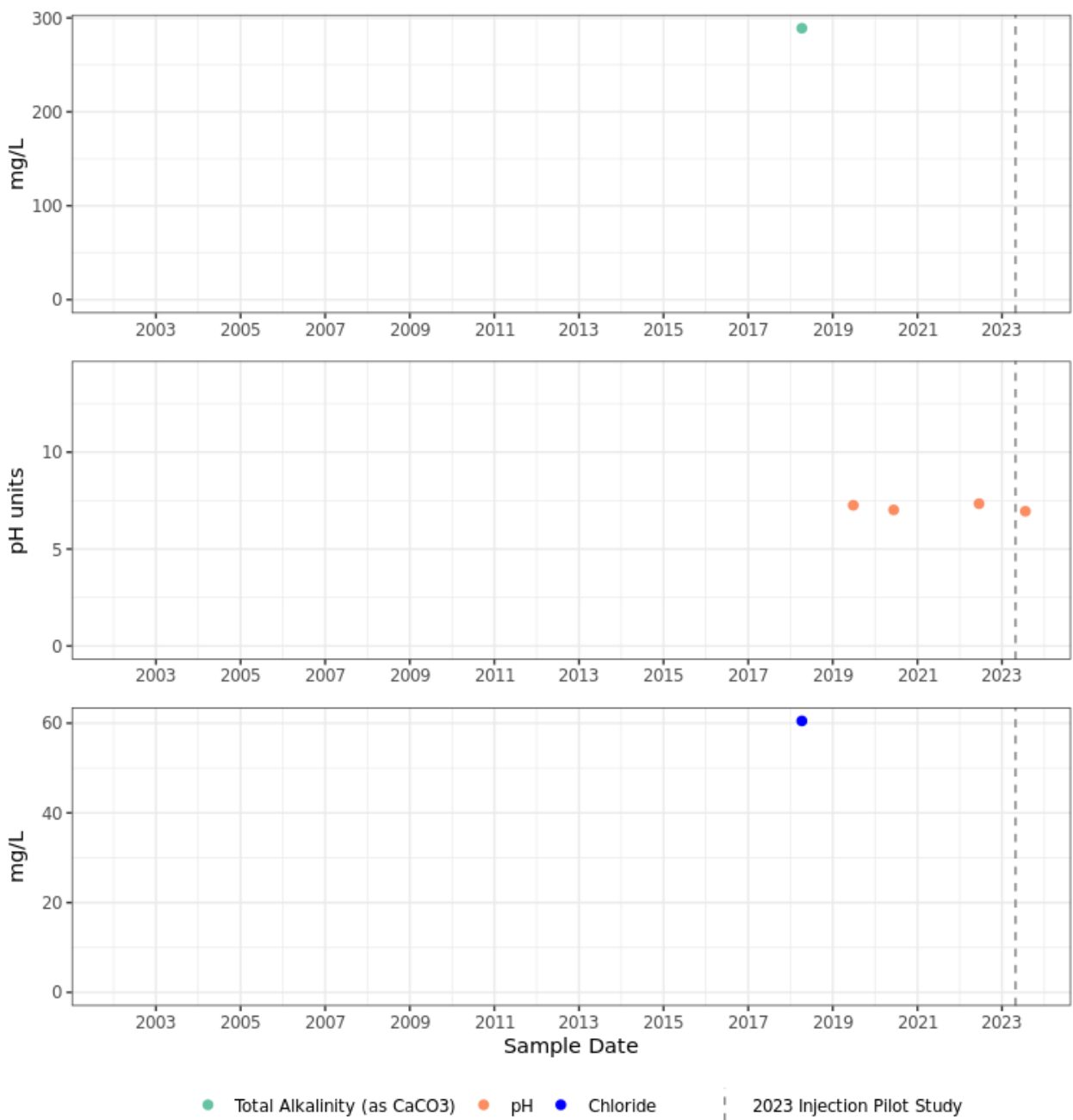
PA-3-47.5-67.5 Chlorinated Ethene and Daughter Product



PA-4-99.5-109.5

Water Quality

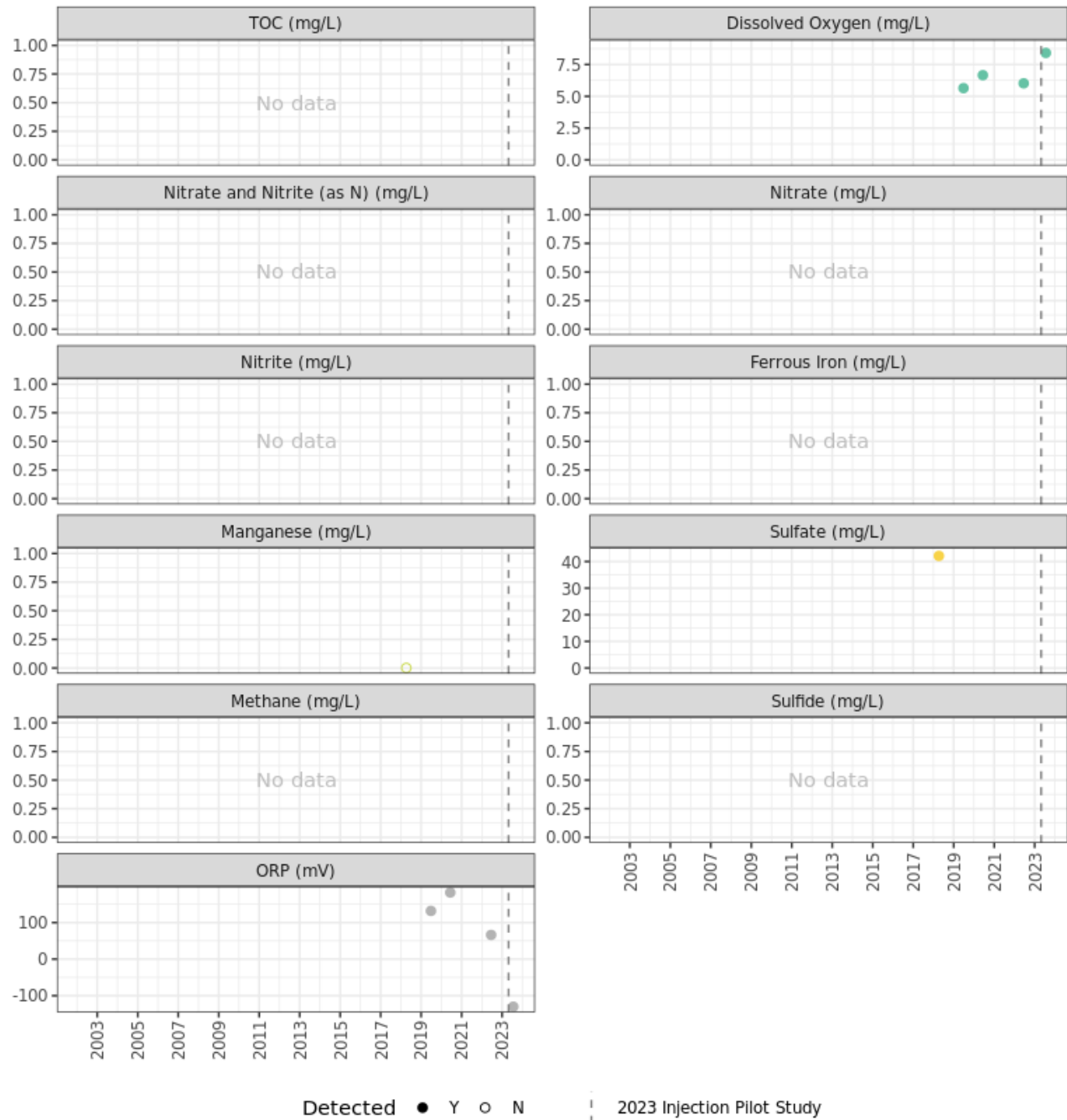
PA-4-99.5-109.5 Water Quality Parameters



TOC and Redox Parameters

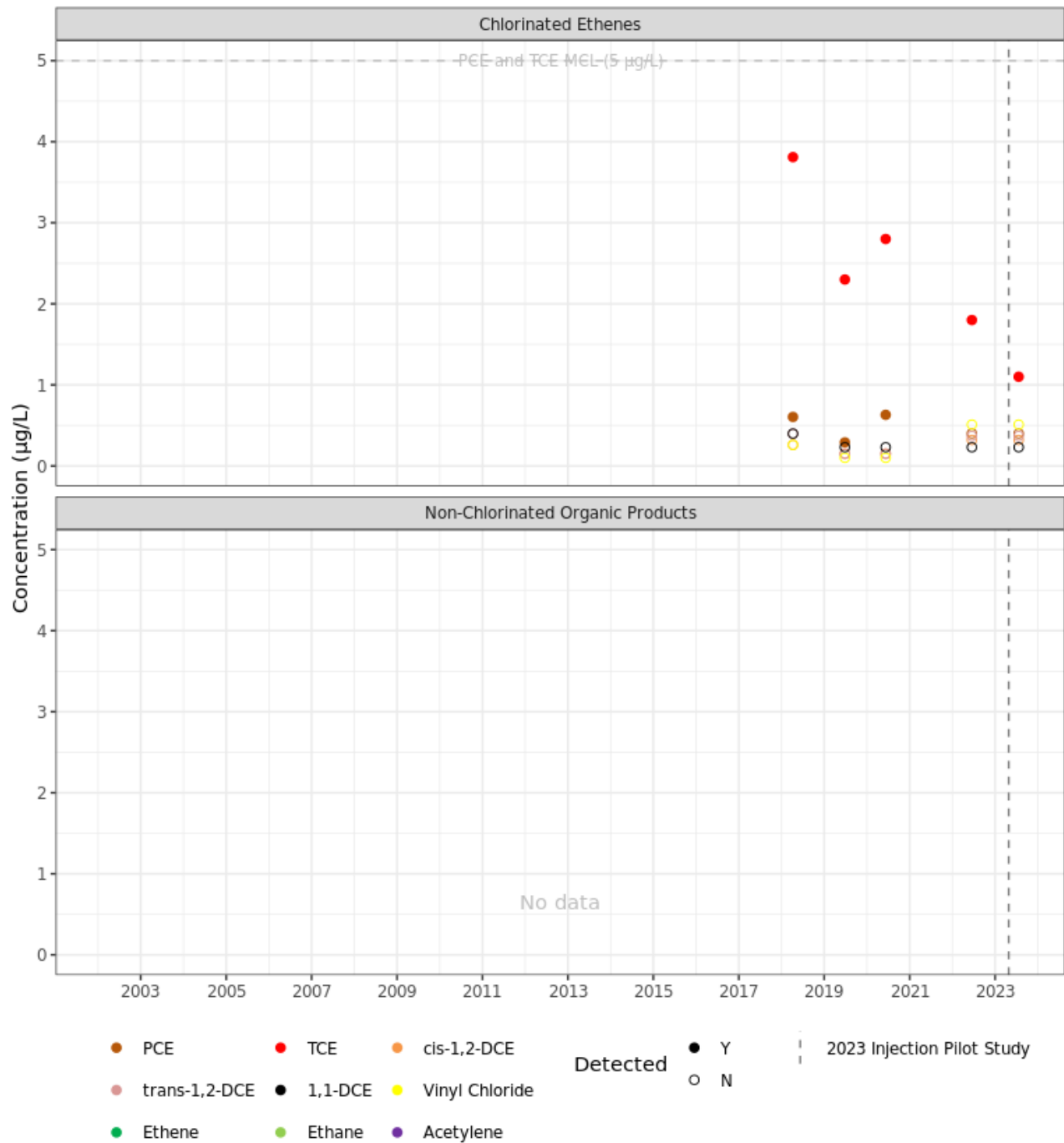
PA-4-99.5-109.5 TOC and Redox Parameters

Mass Concentrations

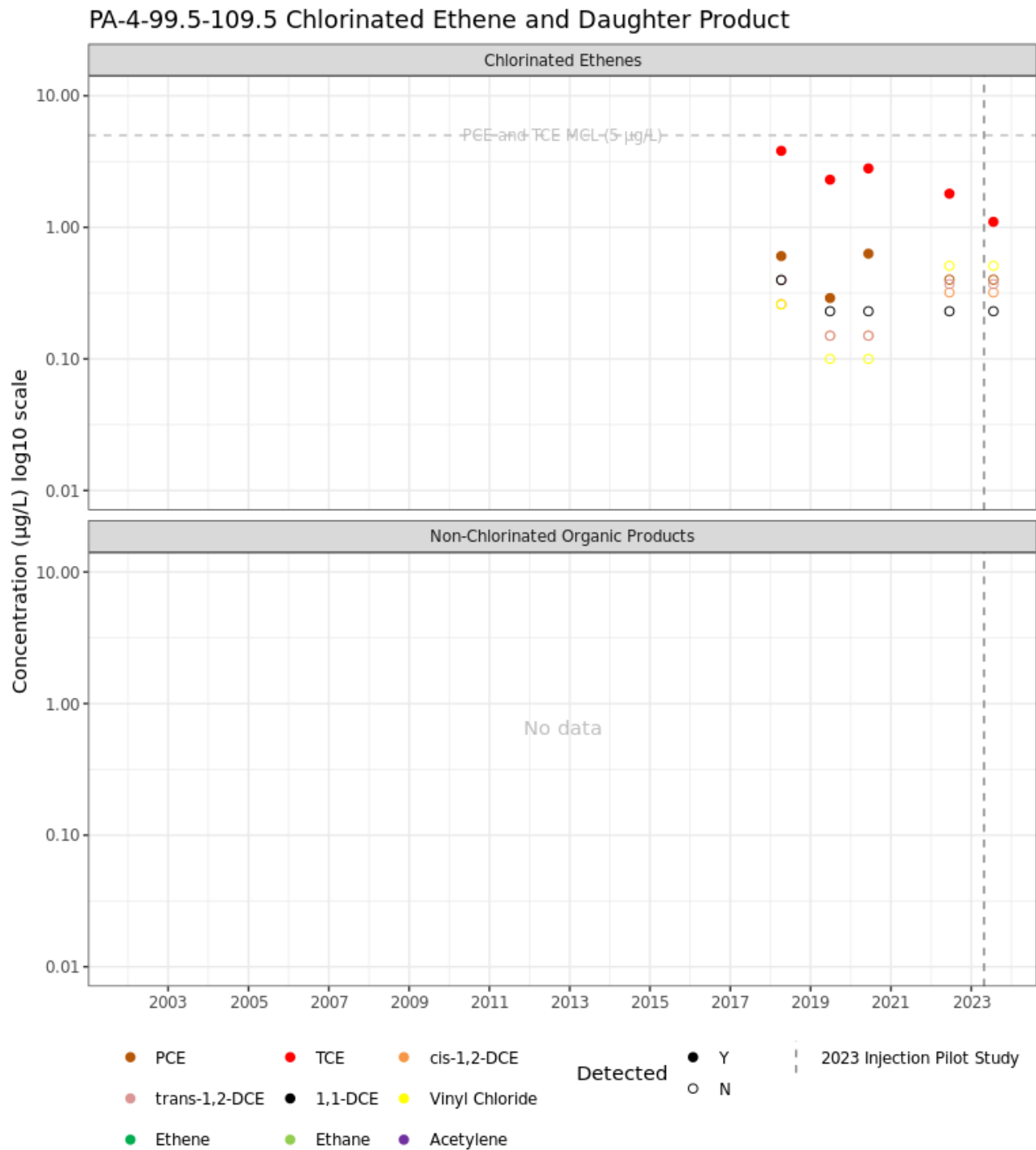


Chlorinated Ethene and Daughter Product Mass

PA-4-99.5-109.5 Chlorinated Ethene and Daughter Product

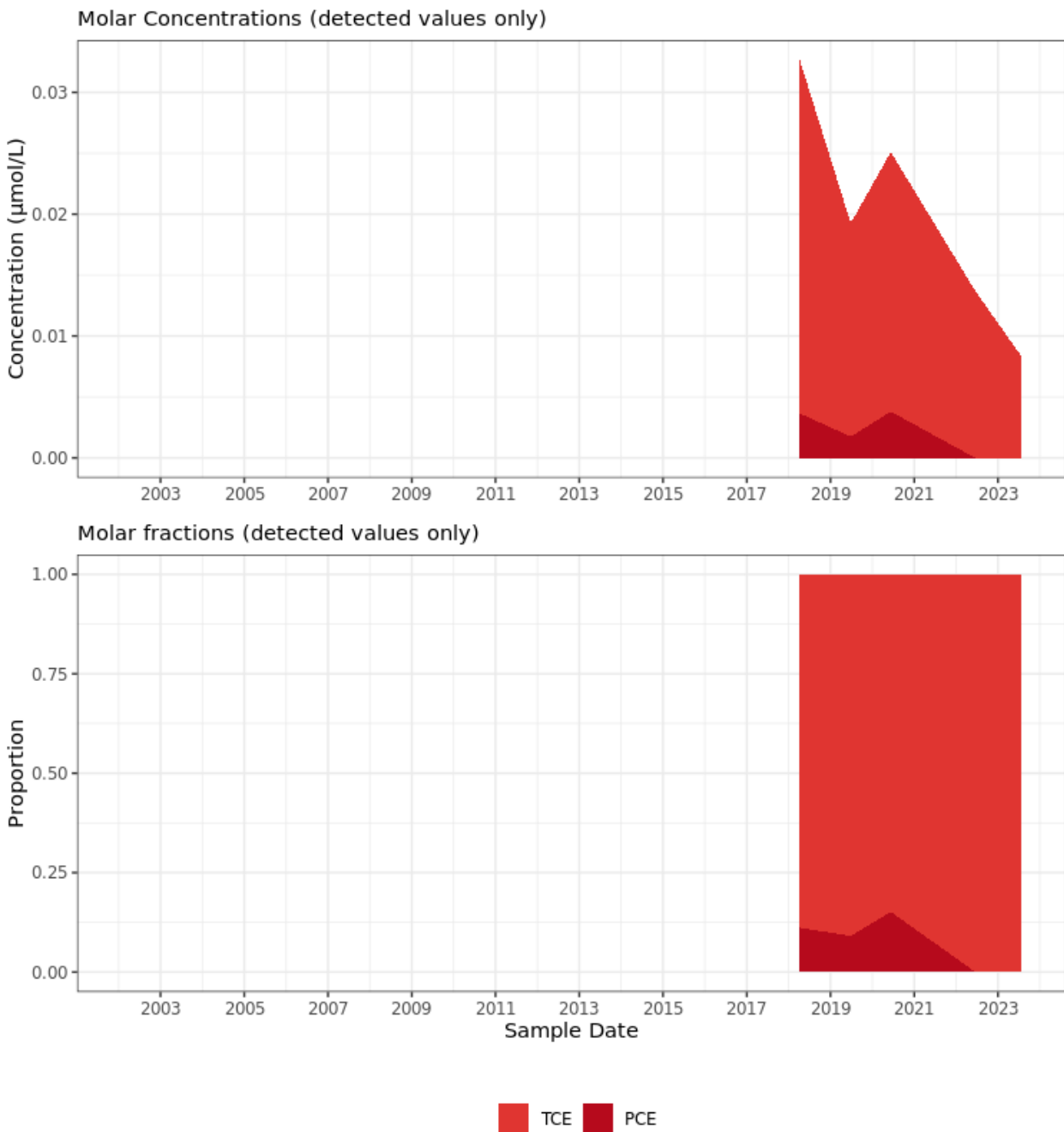


Chlorinated Ethene and Daughter Product Mass (log10)



Chlorinated Ethene and Daughter Product Concentration

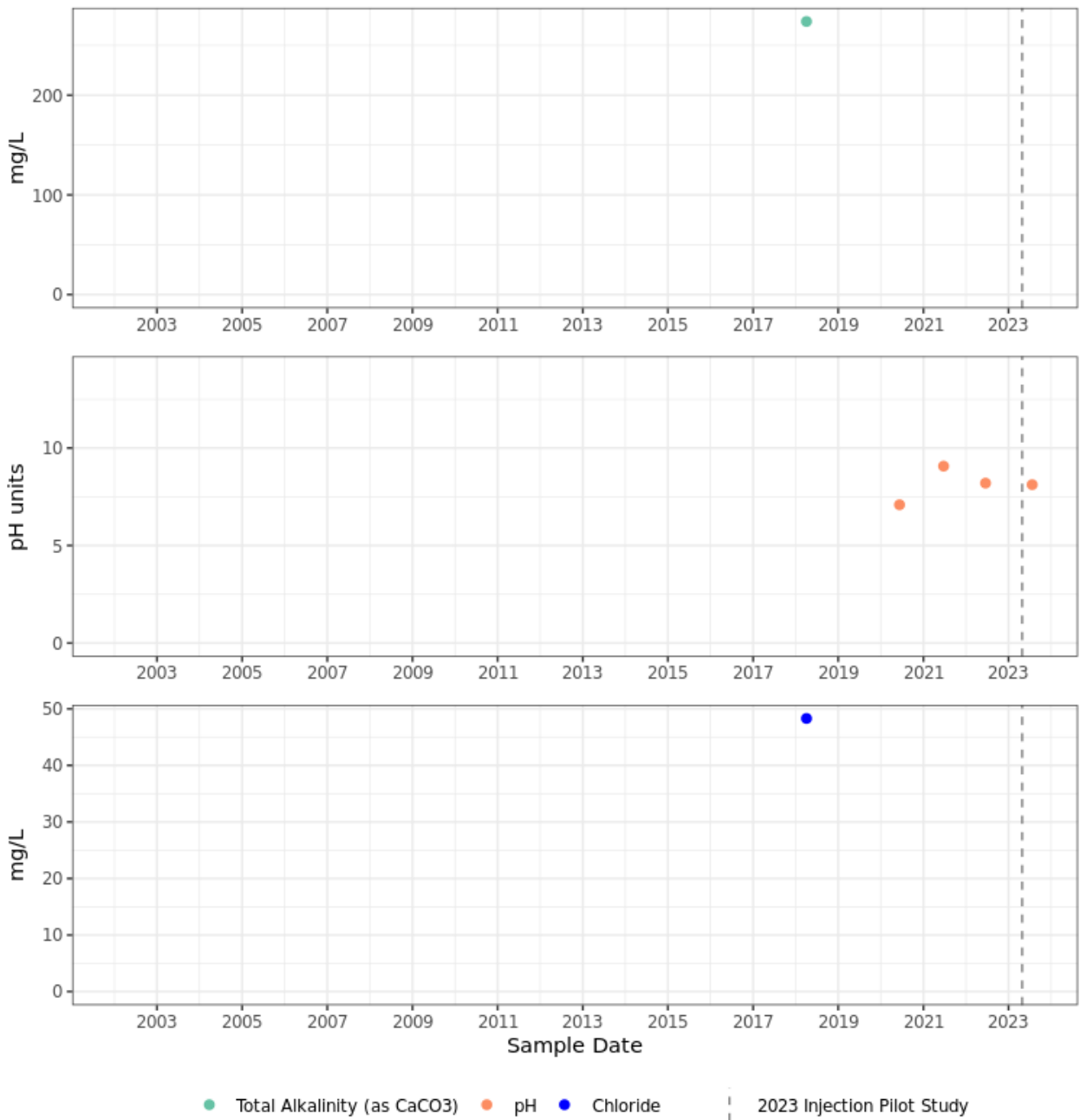
PA-4-99.5-109.5 Chlorinated Ethene and Daughter Product



PA-8-77-87

Water Quality

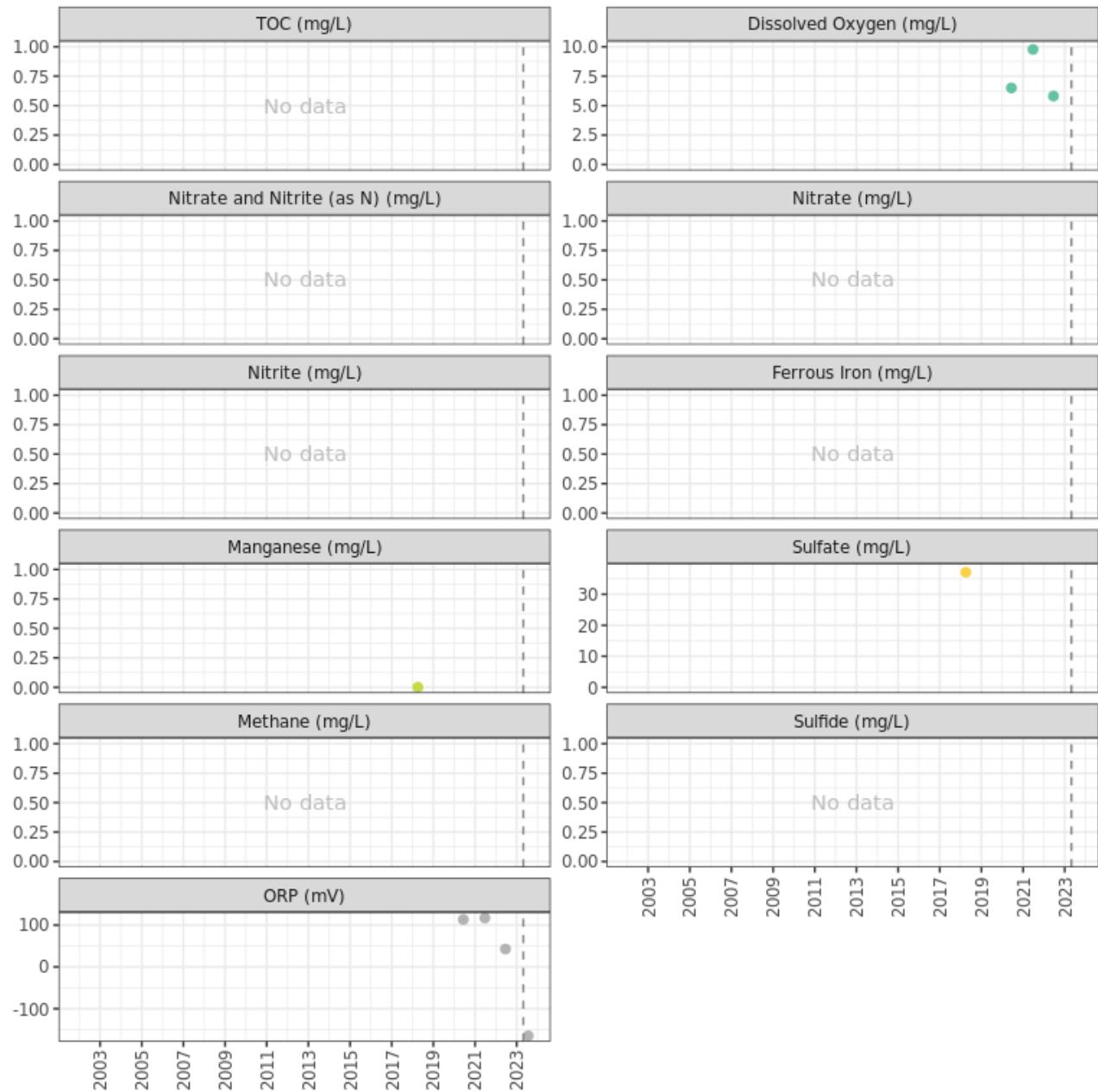
PA-8-77-87 Water Quality Parameters



TOC and Redox Parameters

PA-8-77-87 TOC and Redox Parameters

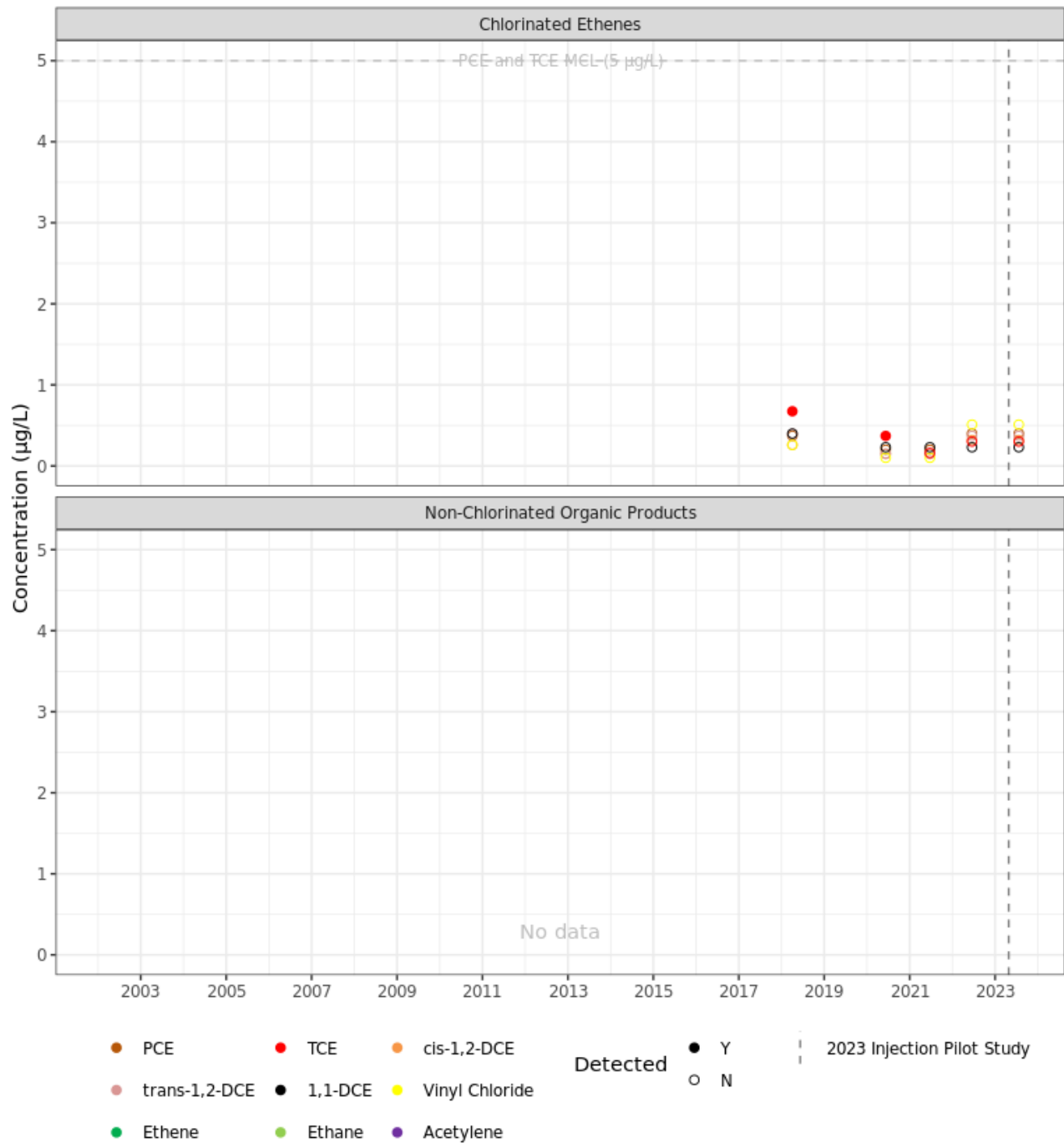
Mass Concentrations



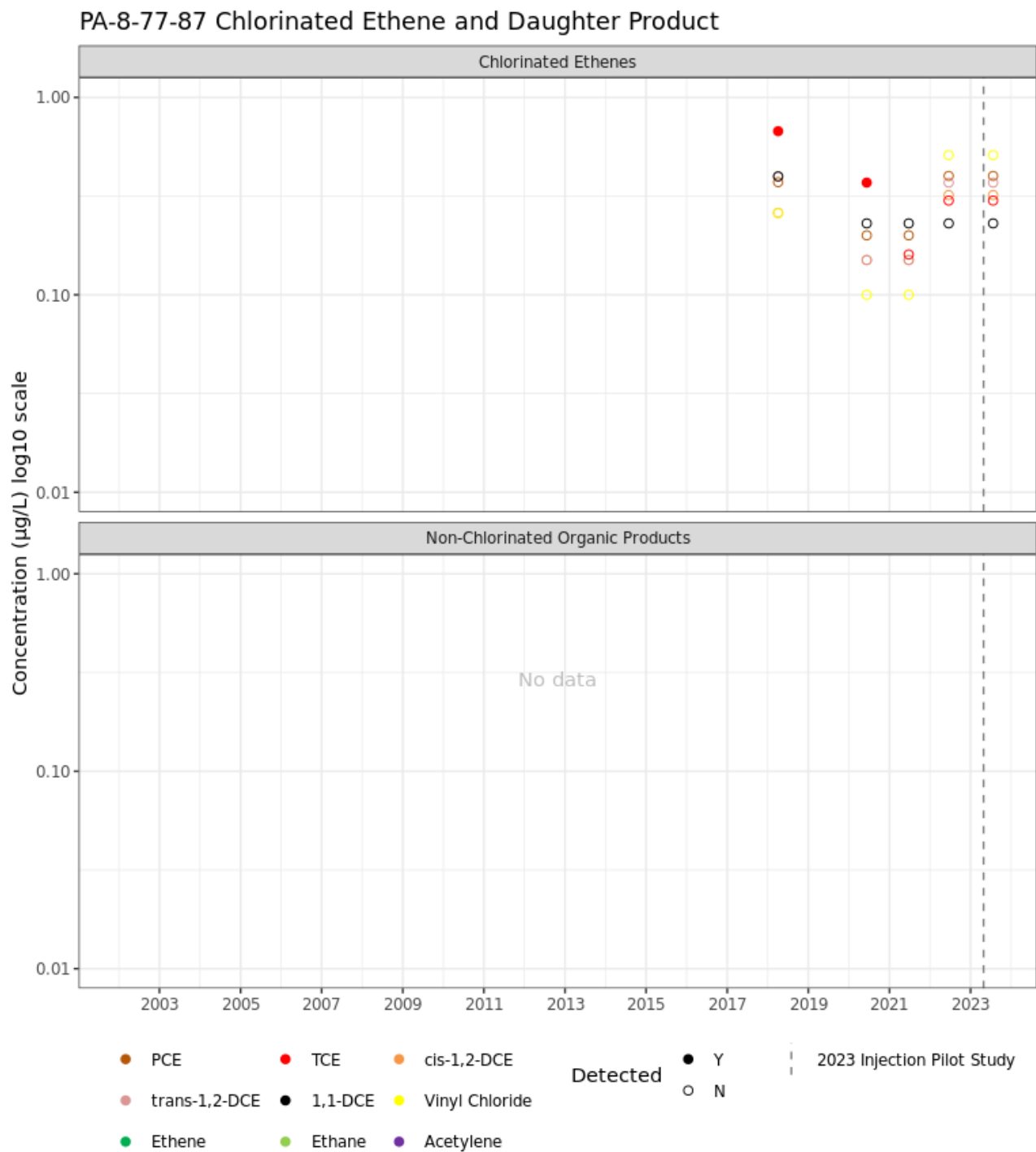
Detected • Y 2023 Injection Pilot Study

Chlorinated Ethene and Daughter Product Mass

PA-8-77-87 Chlorinated Ethene and Daughter Product

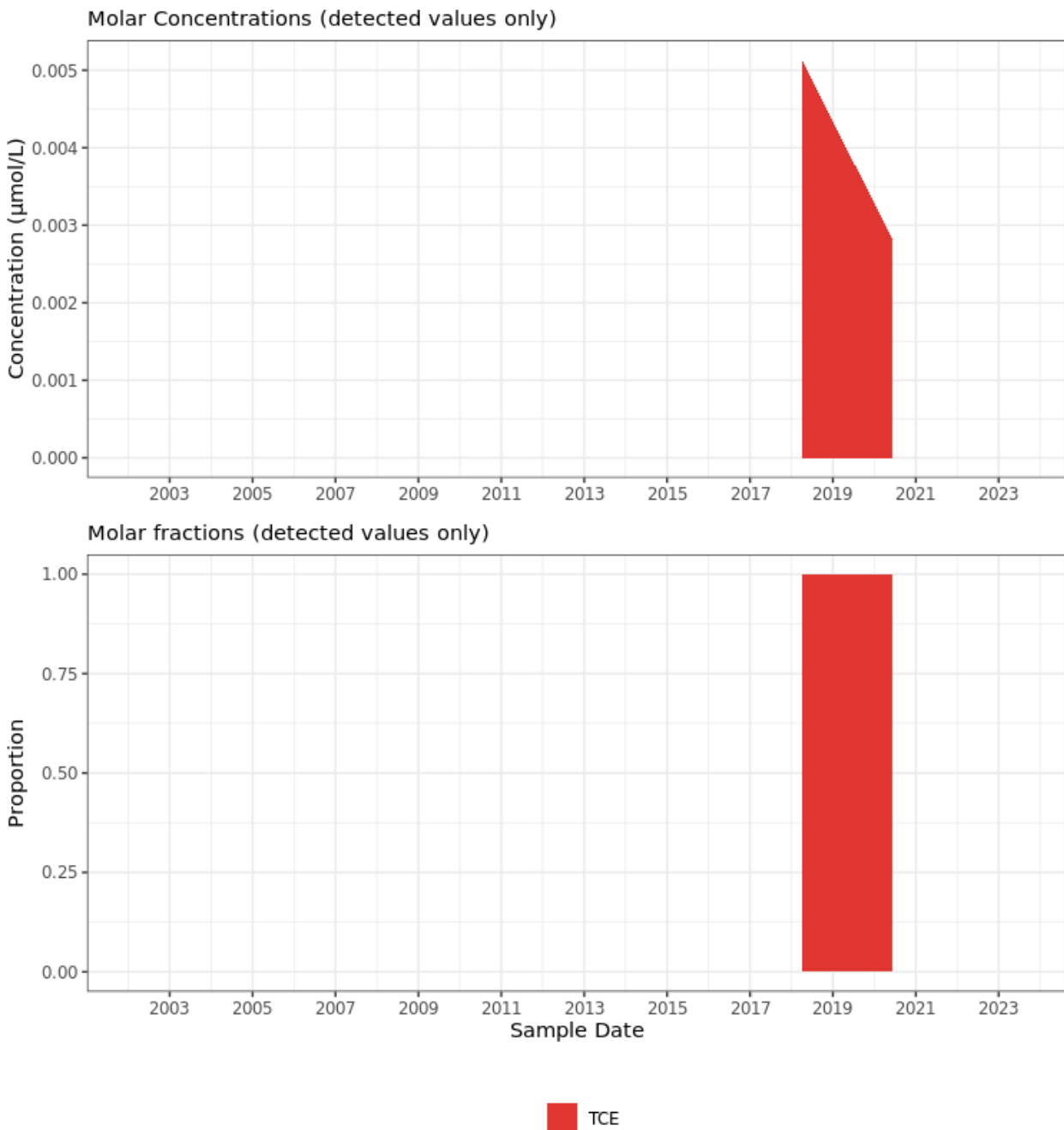


Chlorinated Ethene and Daughter Product Mass (log10)



Chlorinated Ethene and Daughter Product Concentration

PA-8-77-87 Chlorinated Ethene and Daughter Product



Chlorinated Ethenes and Geochemistry Time Series Plots -

Data filters

This report is filtered to only include:

- **RW-2076F, RW-2140H, RW-2151H, RW-2172F, RW-2172H, RW-2203H, RW-2213F, RW-2237H, RW-2879M, RW-7200P, RW-7505P, RW-7549P, RW-7677P, RW-7773P, RW-8012P, RW-8030P, RW-8048P, RW-8105PS, and RW-8284P** from **Residential Wells**
- Results from **01 January 2002** to **30 July 2023**

Graph notes

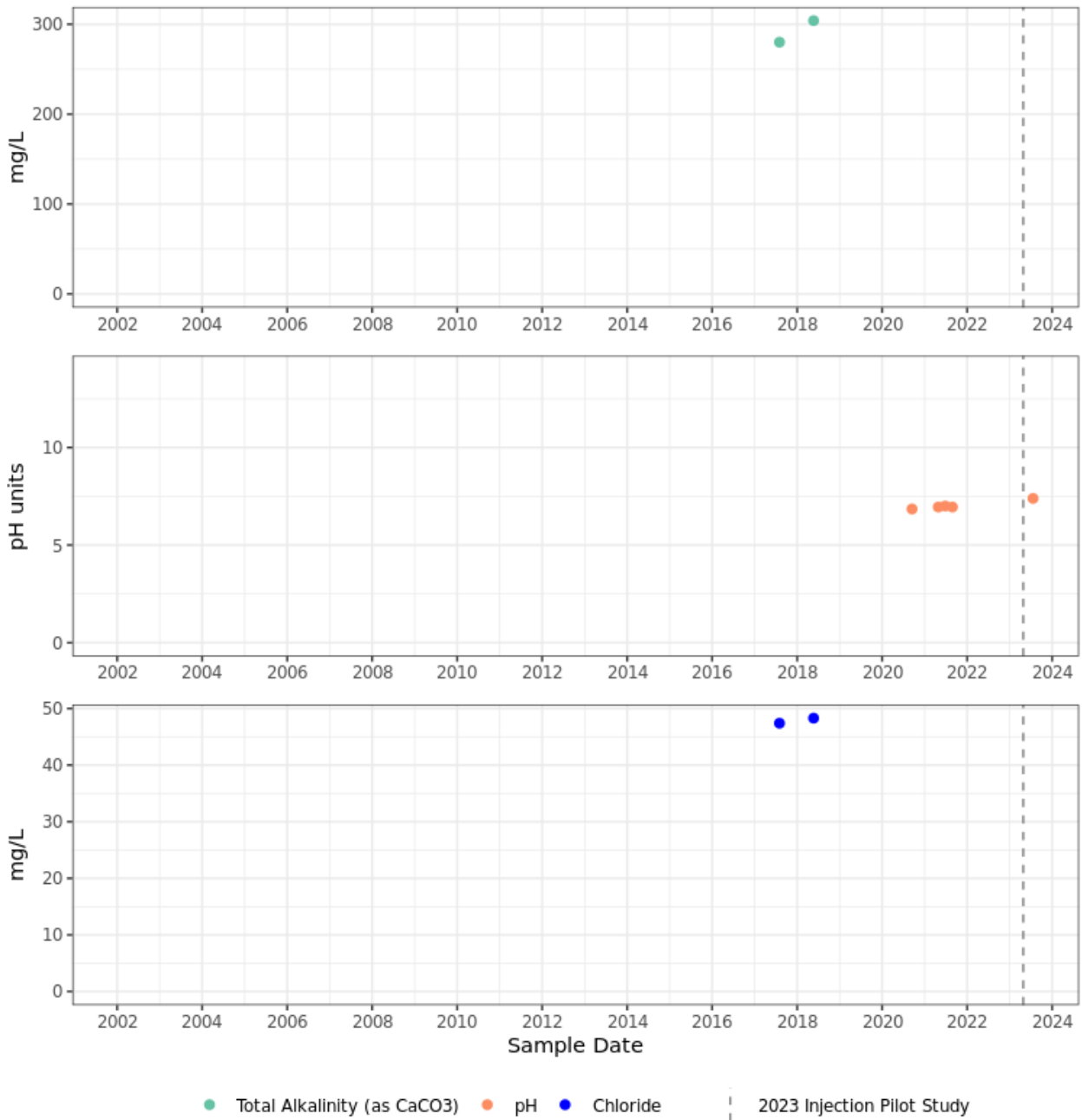
- When only the year is shown in the x-axis label, this represents the start of the year
- The molar concentration graphs only plot detected data
- ORP values that are negative cannot be put in to a log10 scale graph and will not show.

Well summaries

RW-2076F

Water Quality

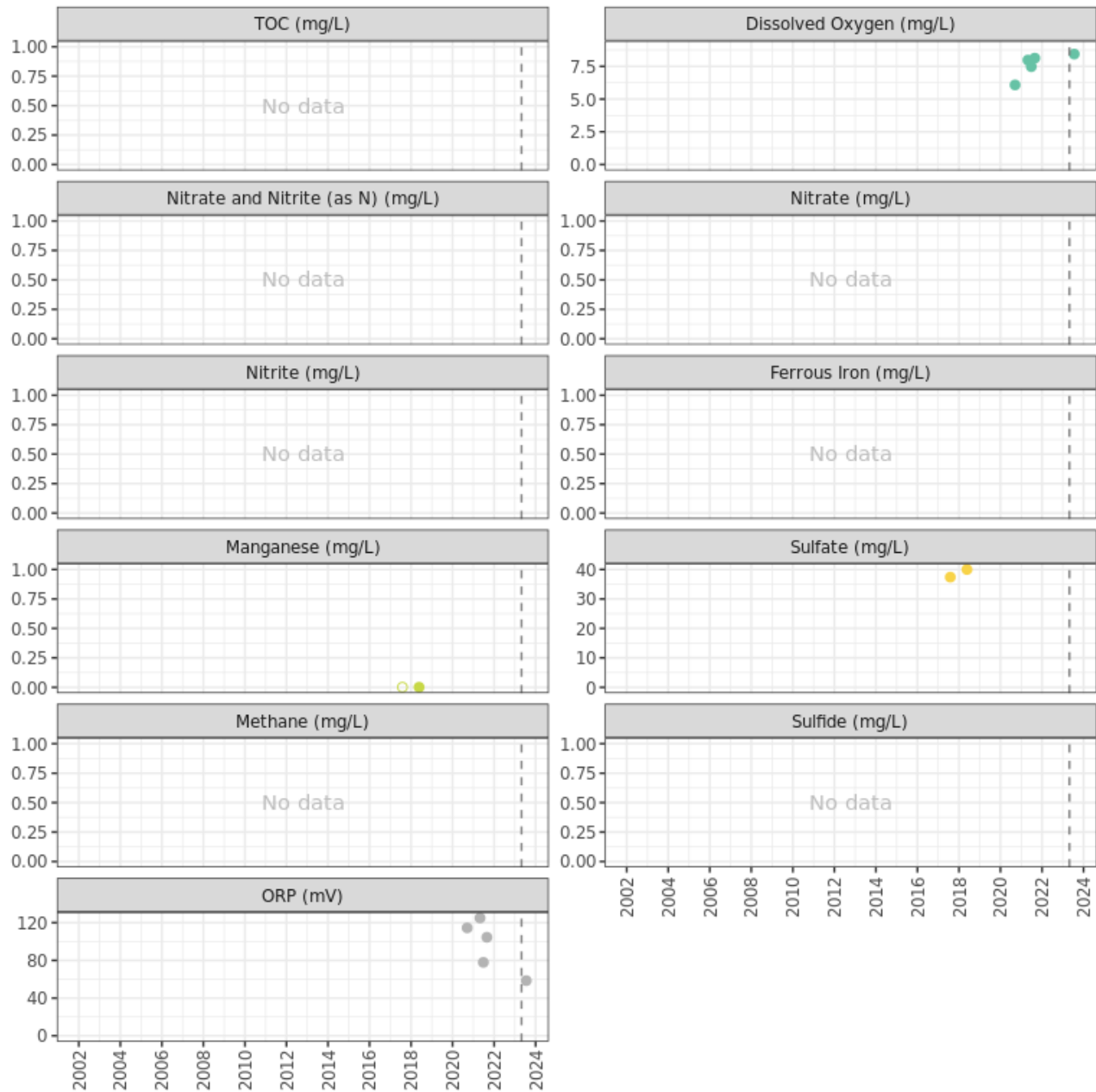
RW-2076F Water Quality Parameters



TOC and Redox Parameters

RW-2076F TOC and Redox Parameters

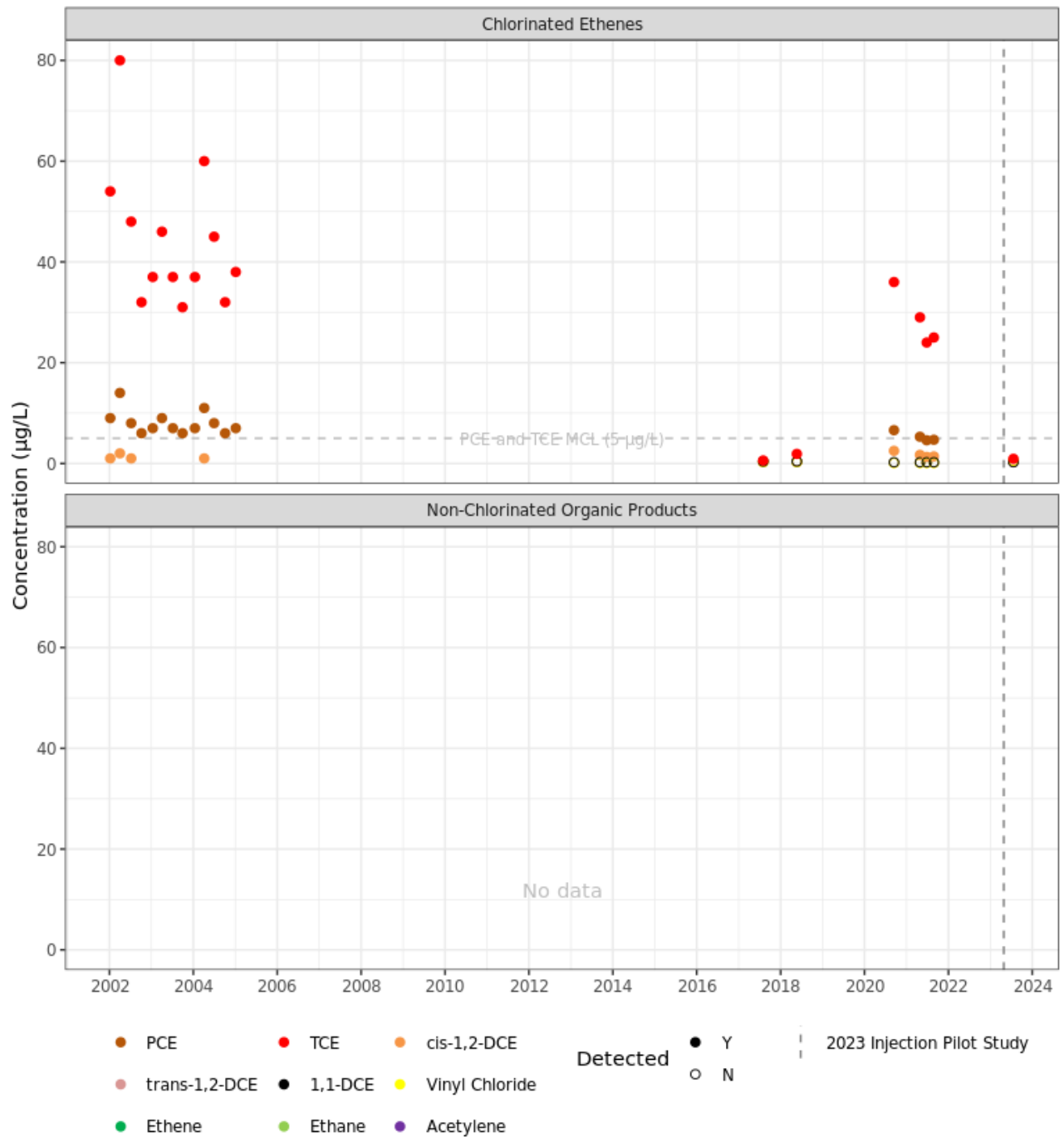
Mass Concentrations



Detected ● Y ○ N | 2023 Injection Pilot Study

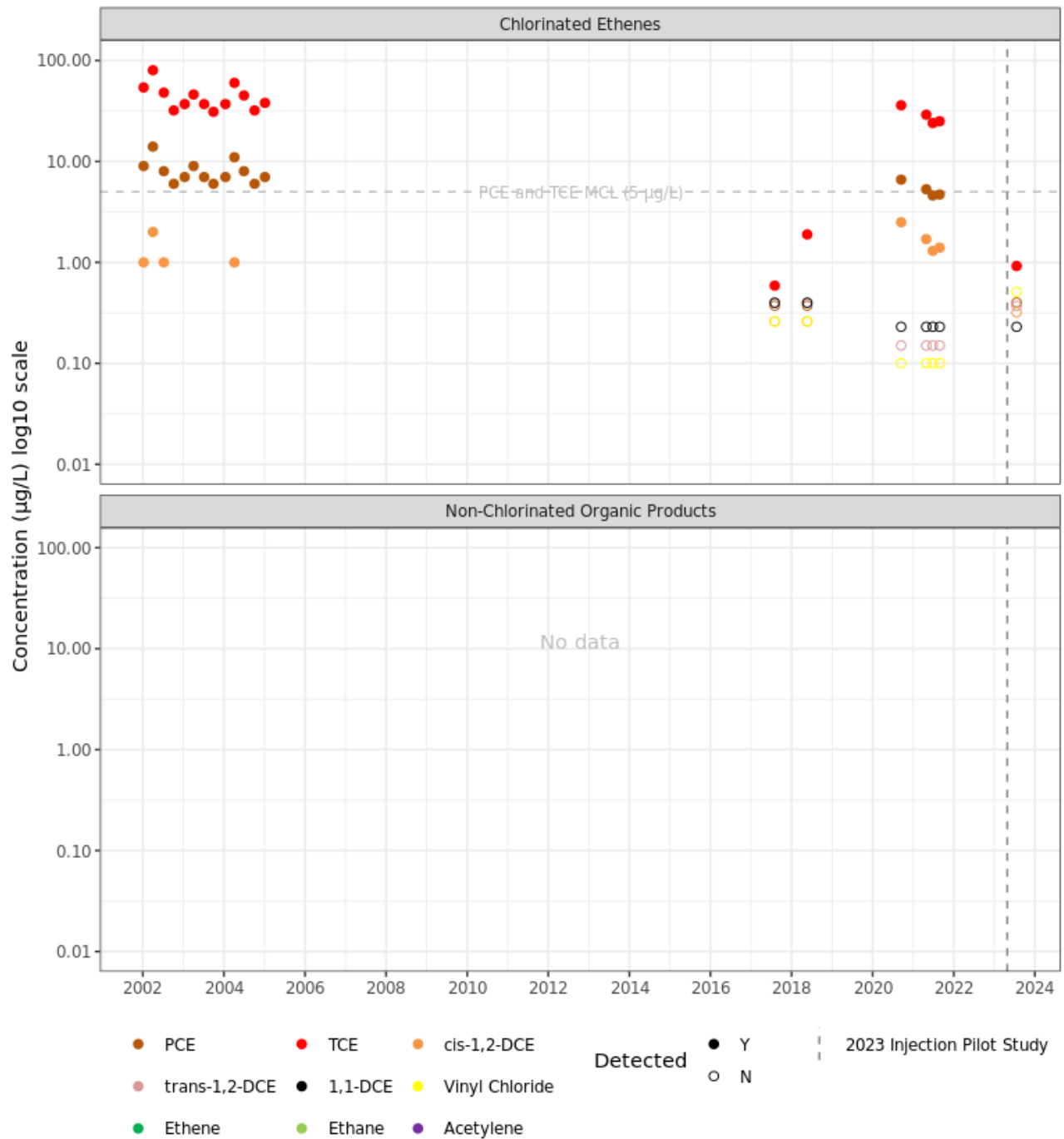
Chlorinated Ethene and Daughter Product Mass

RW-2076F Chlorinated Ethene and Daughter Product



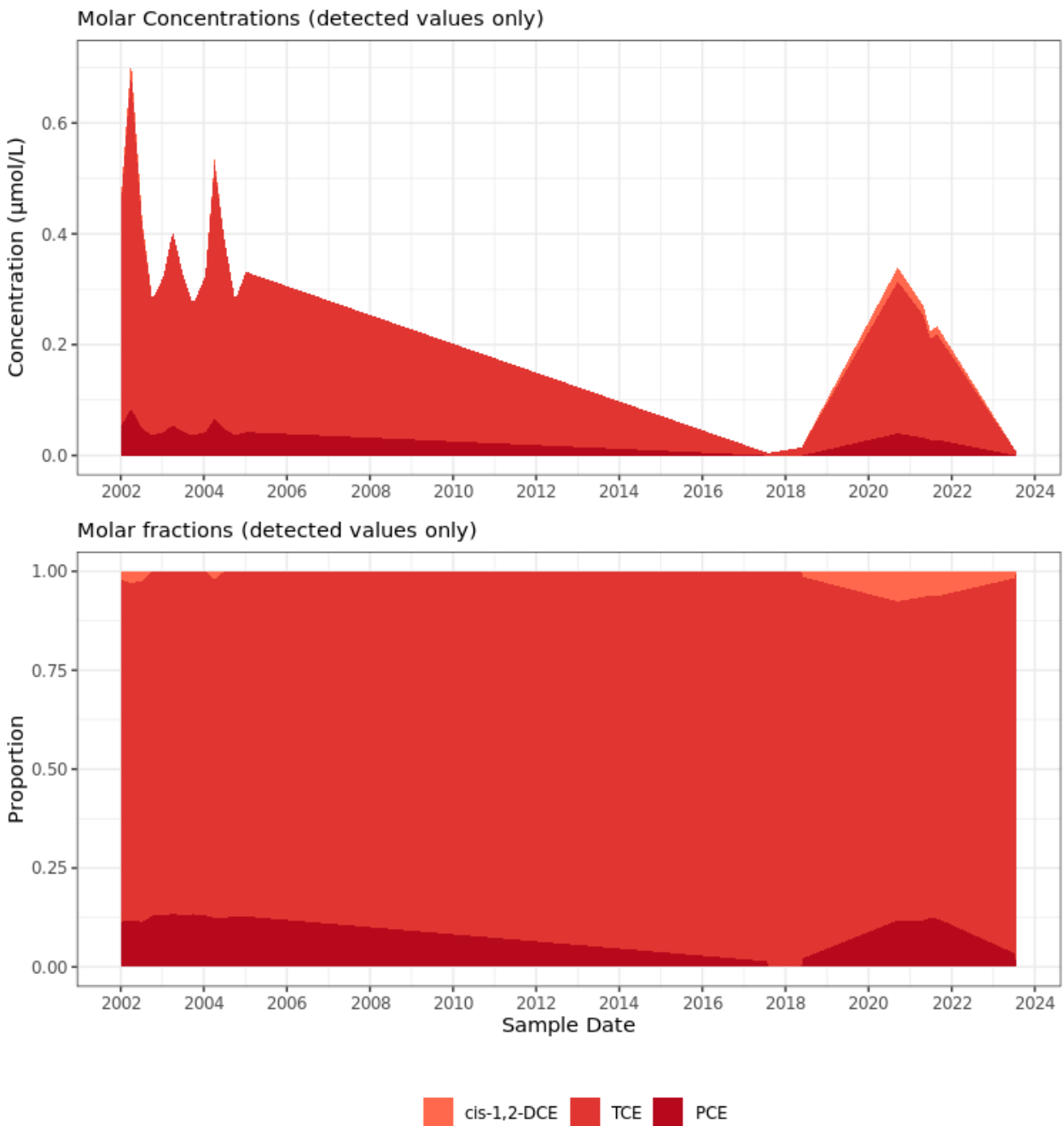
Chlorinated Ethene and Daughter Product Mass (log10)

RW-2076F Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

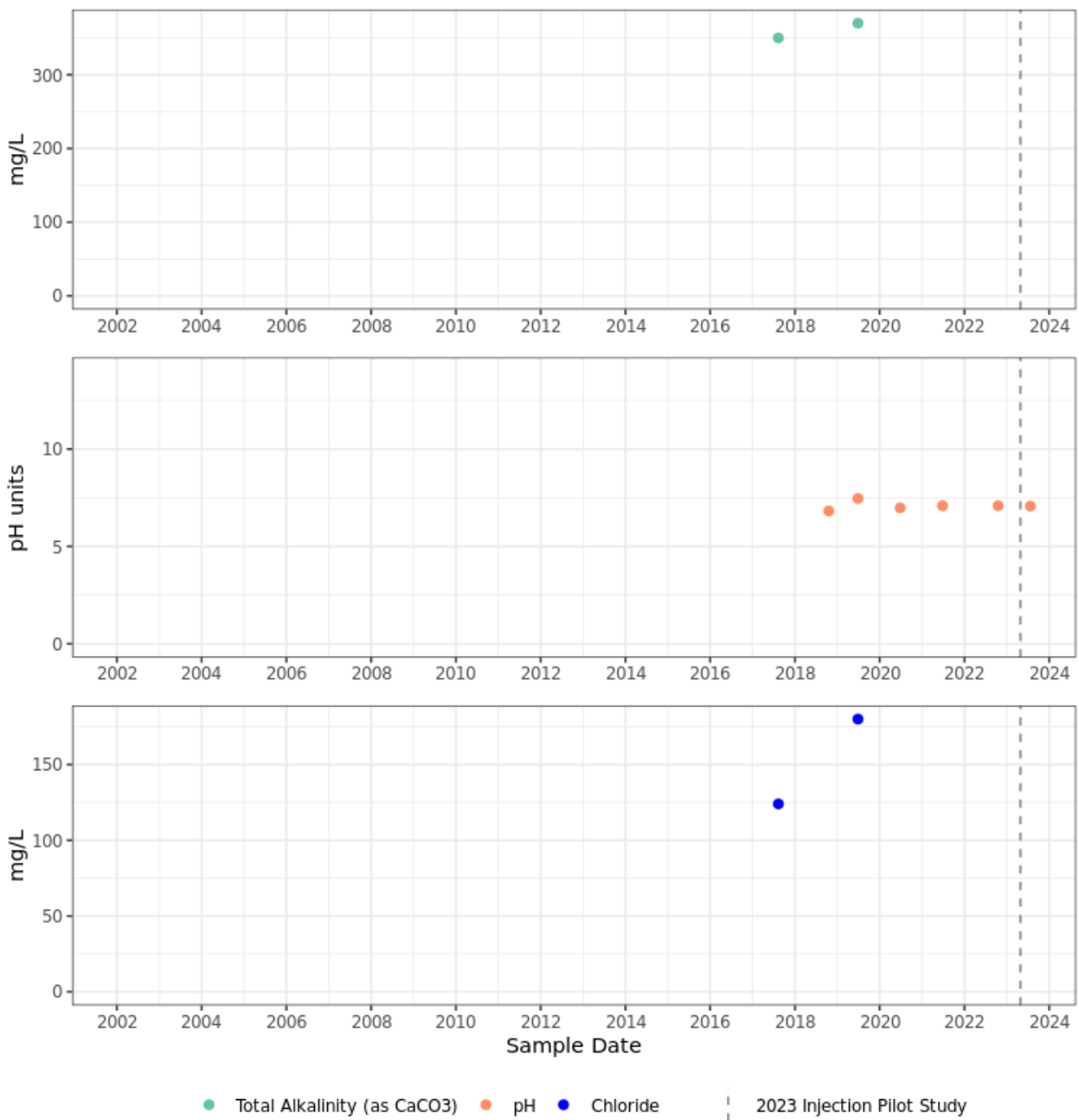
RW-2076F Chlorinated Ethene and Daughter Product



RW-2140H

Water Quality

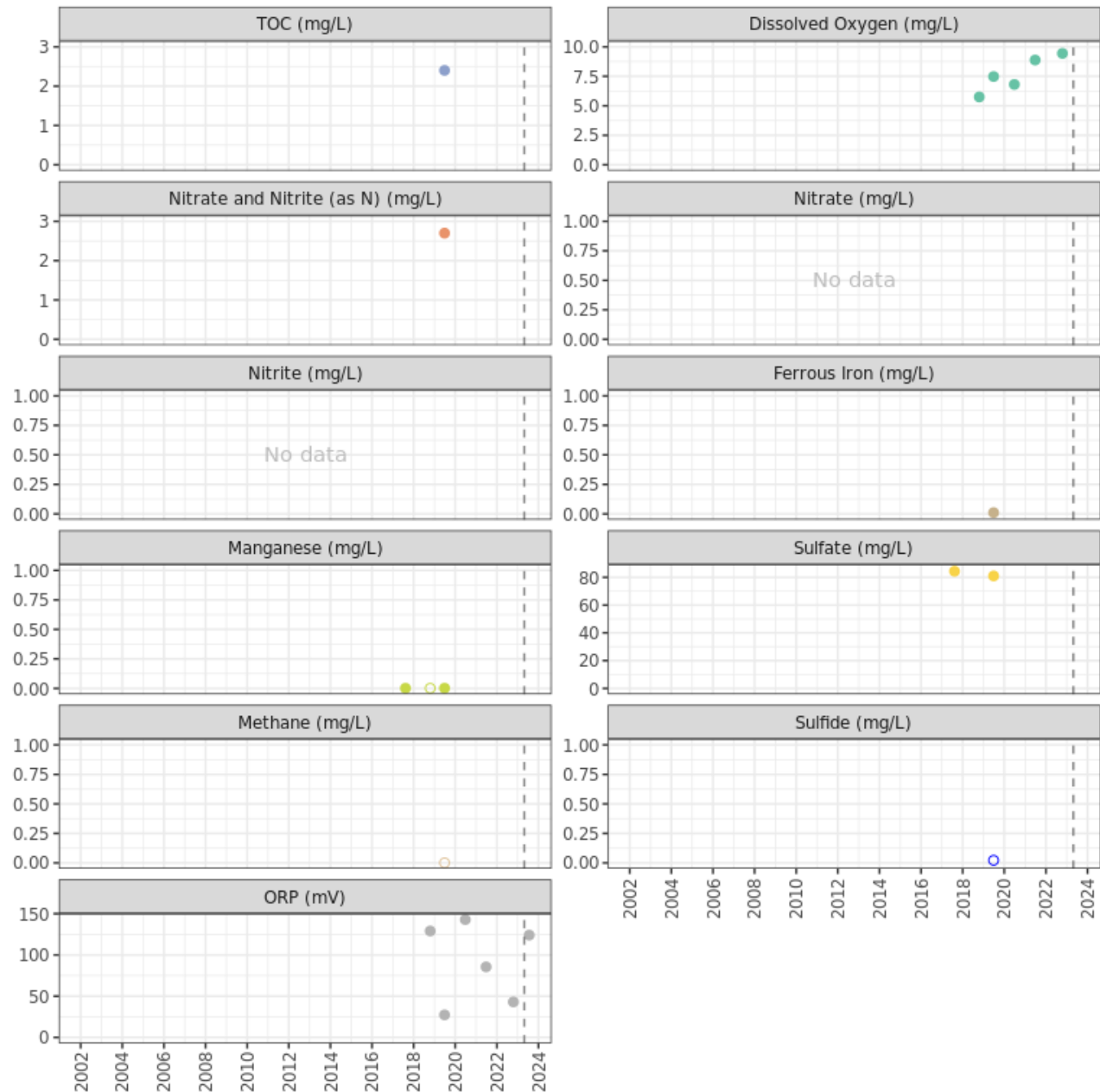
RW-2140H Water Quality Parameters



TOC and Redox Parameters

RW-2140H TOC and Redox Parameters

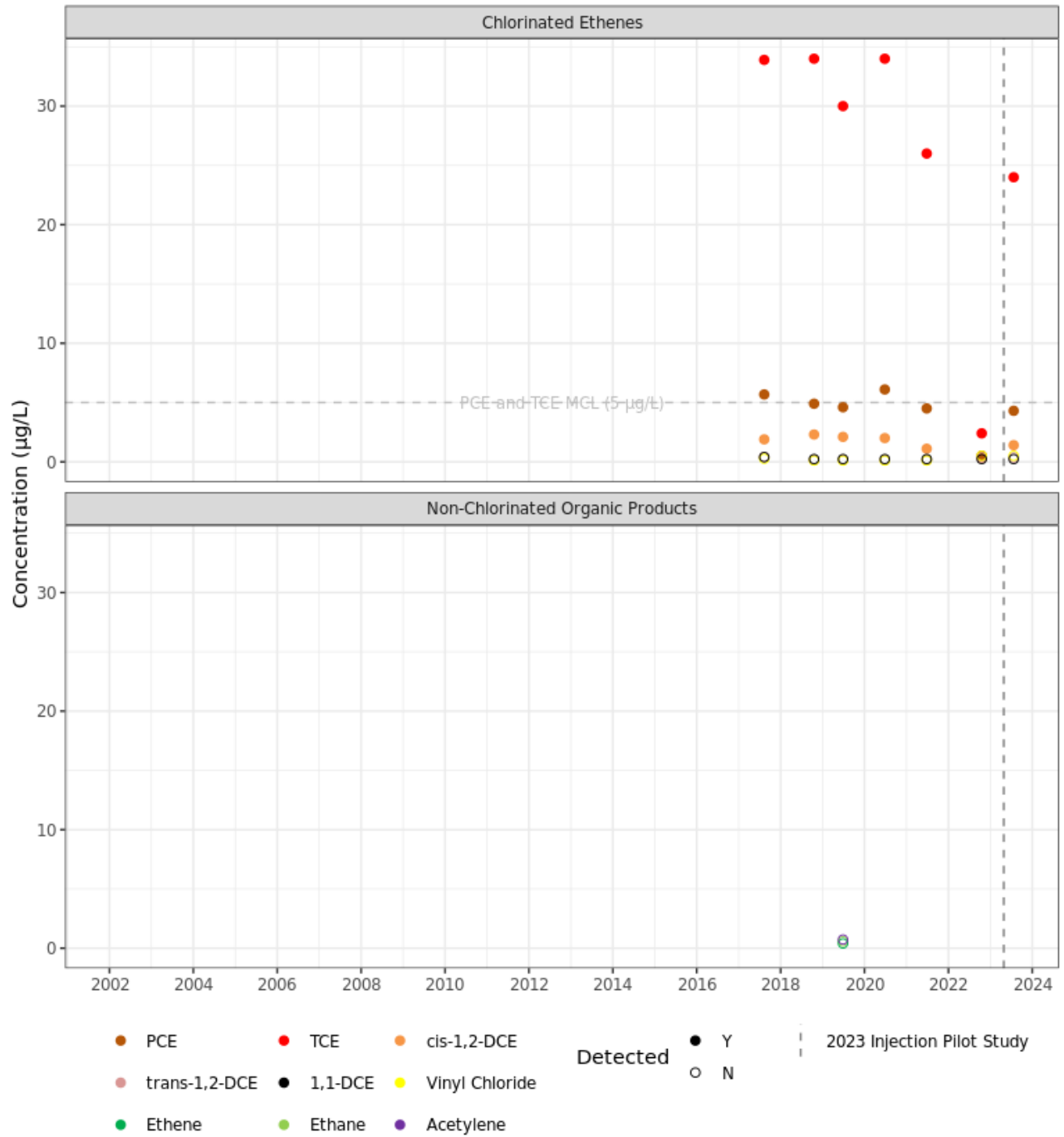
Mass Concentrations



Detected ● Y ○ N | 2023 Injection Pilot Study

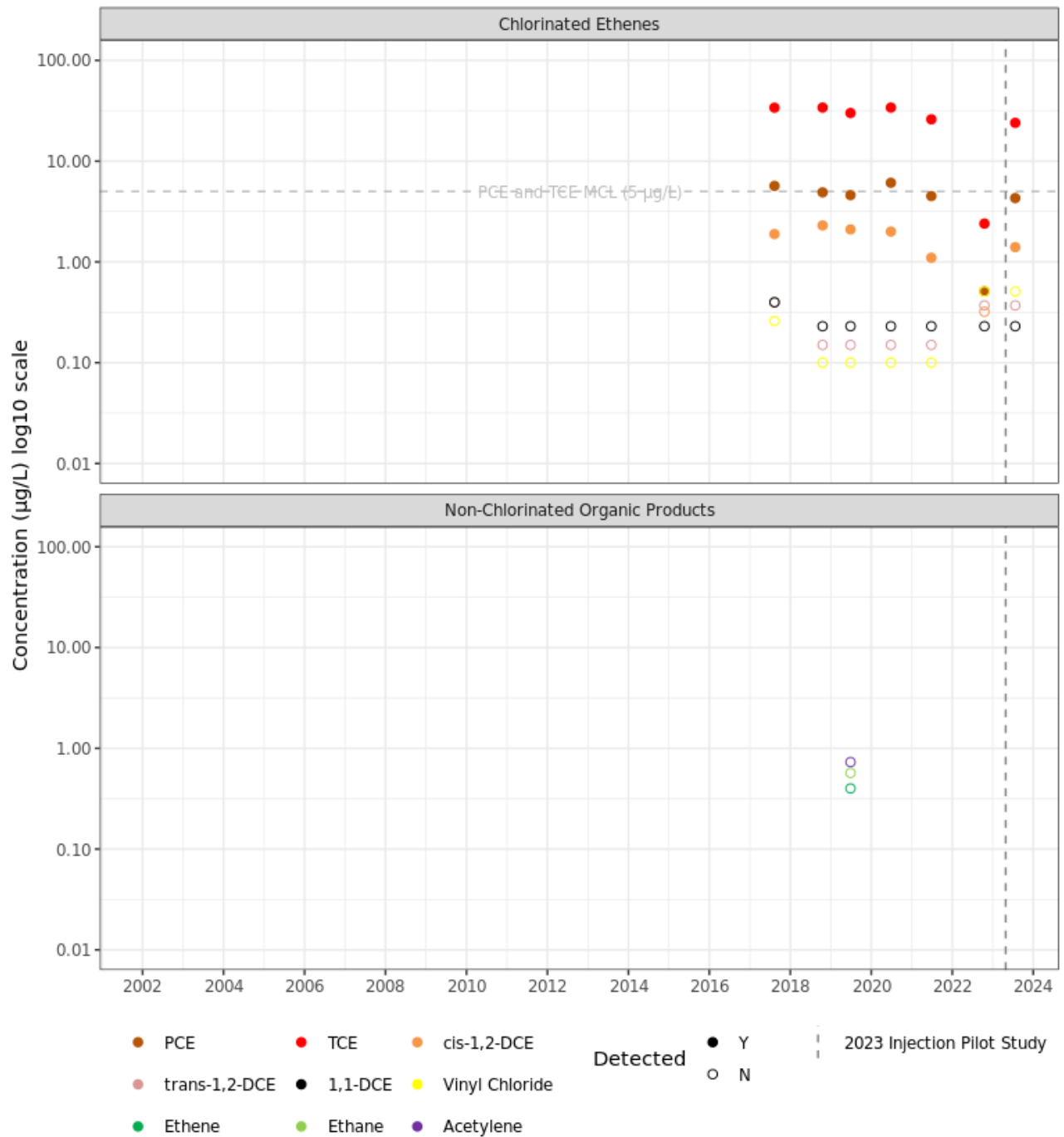
Chlorinated Ethene and Daughter Product Mass

RW-2140H Chlorinated Ethene and Daughter Product



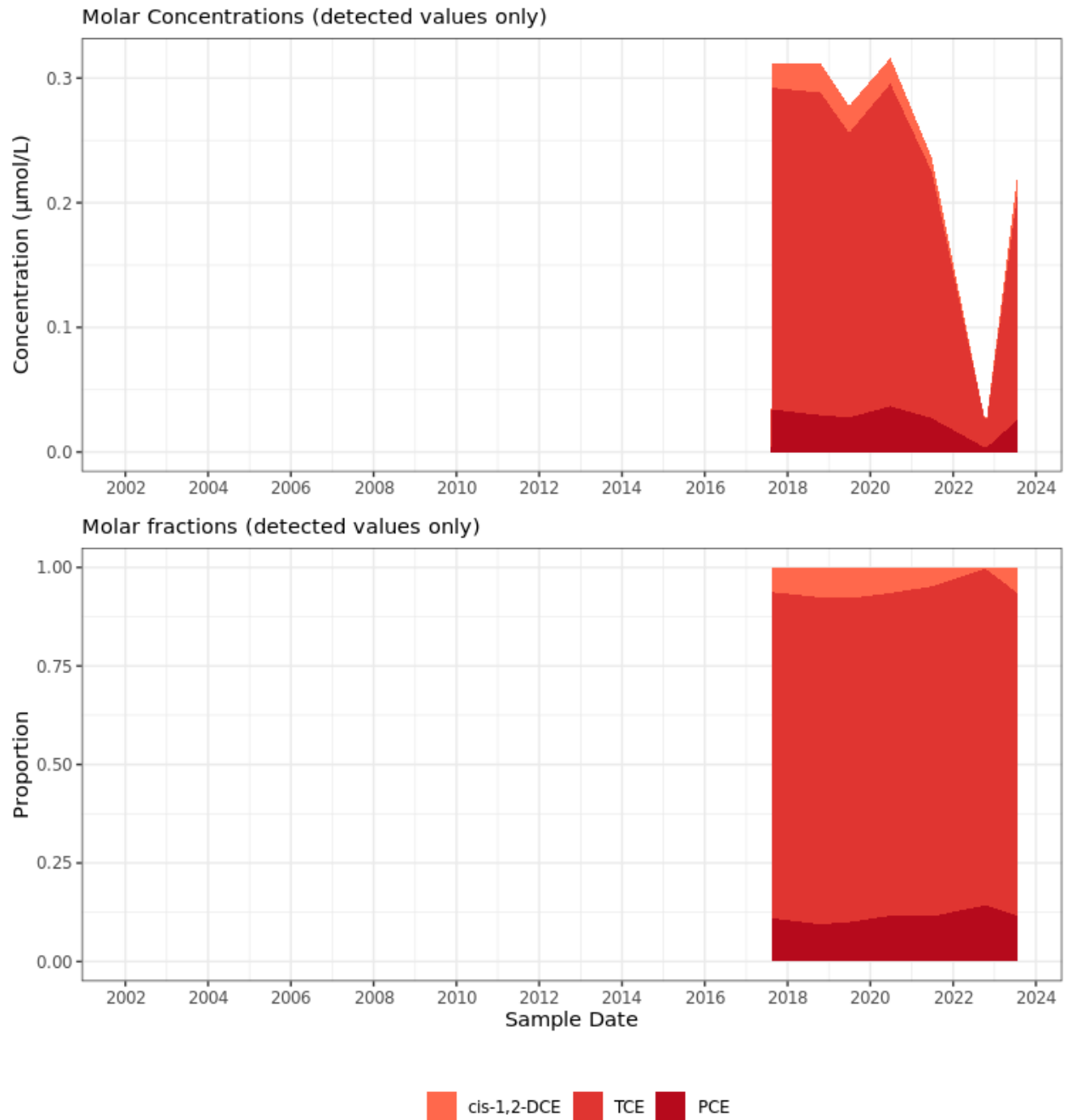
Chlorinated Ethene and Daughter Product Mass (log10)

RW-2140H Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

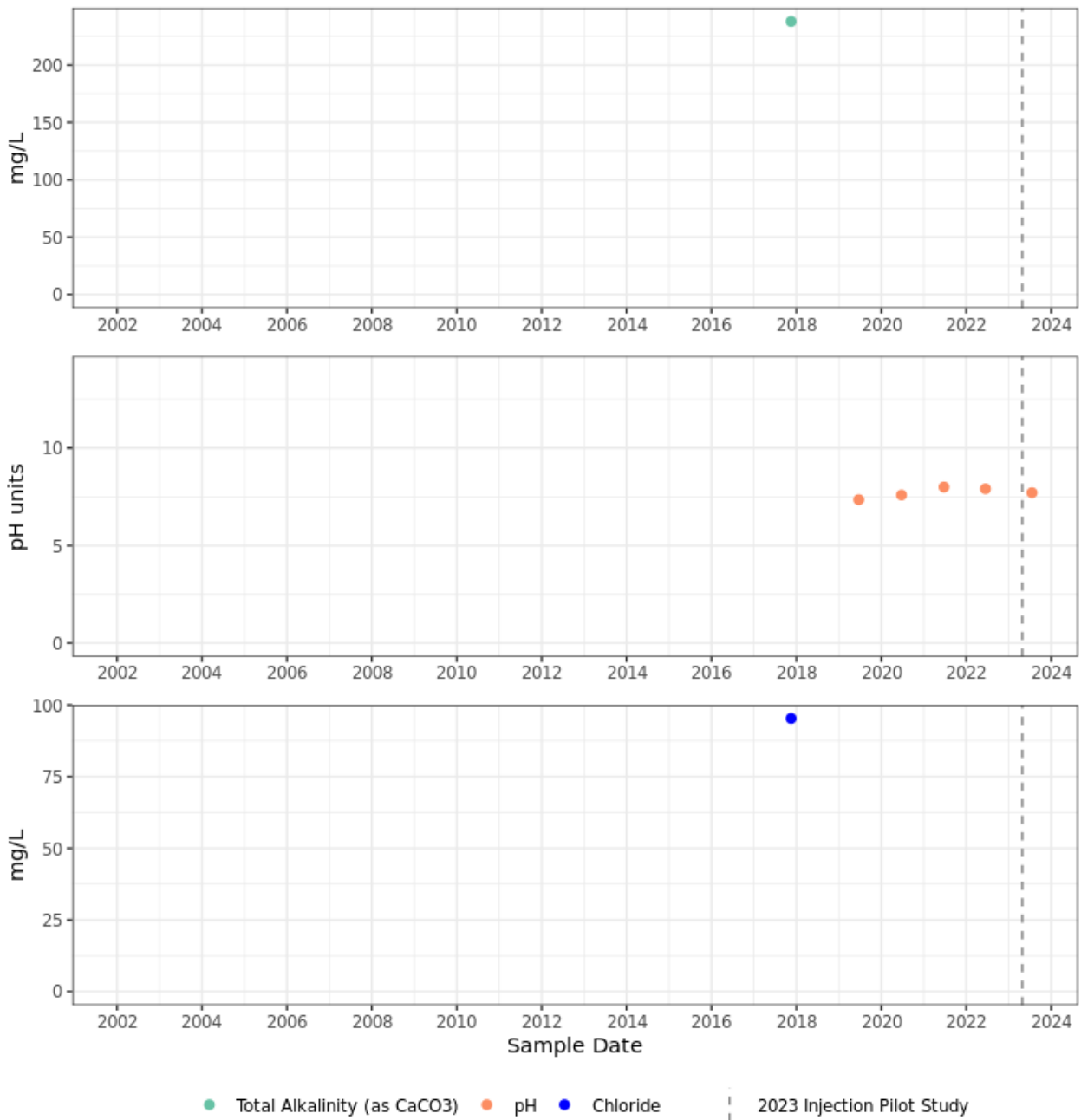
RW-2140H Chlorinated Ethene and Daughter Product



RW-2151H

Water Quality

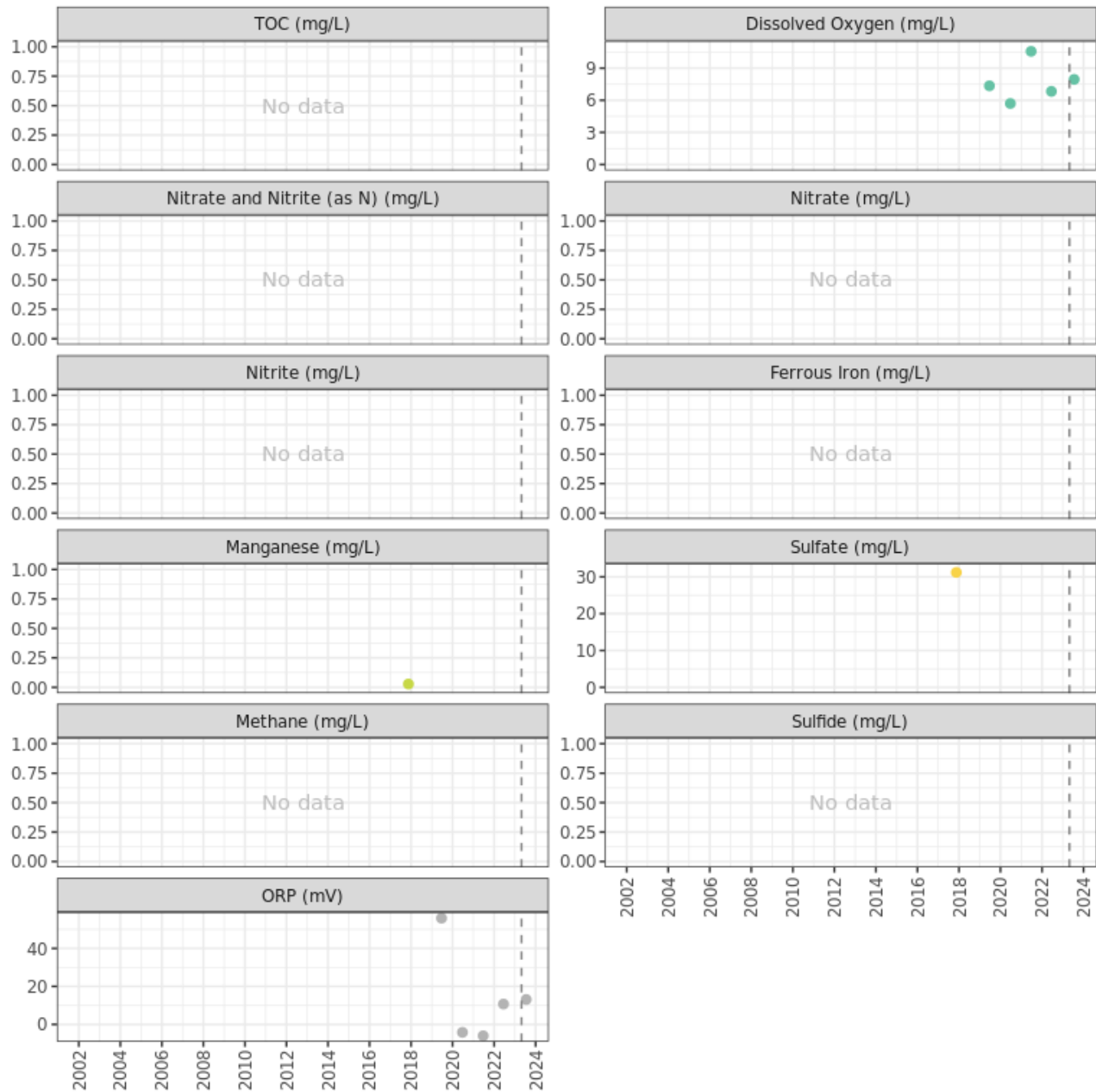
RW-2151H Water Quality Parameters



TOC and Redox Parameters

RW-2151H TOC and Redox Parameters

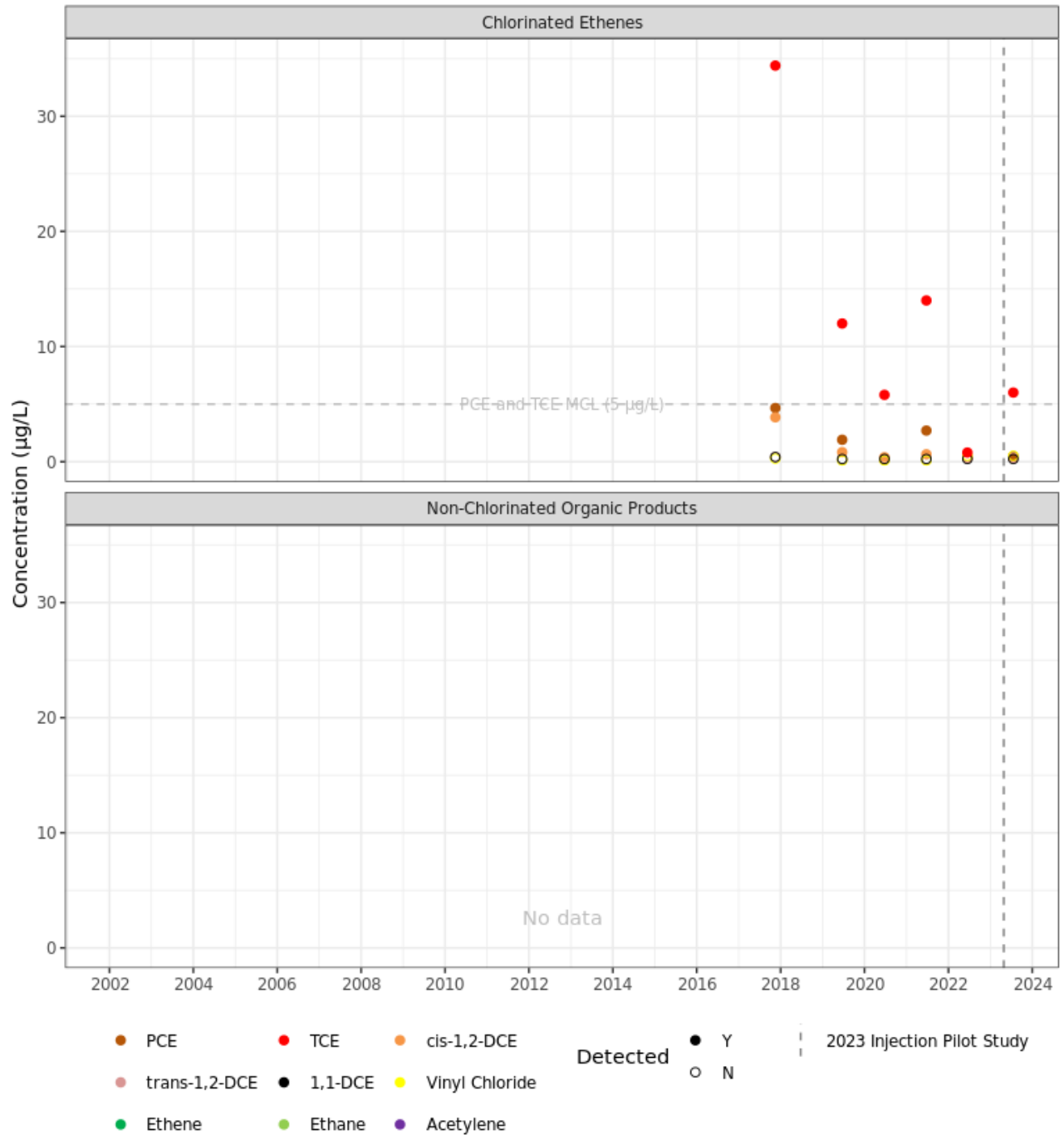
Mass Concentrations



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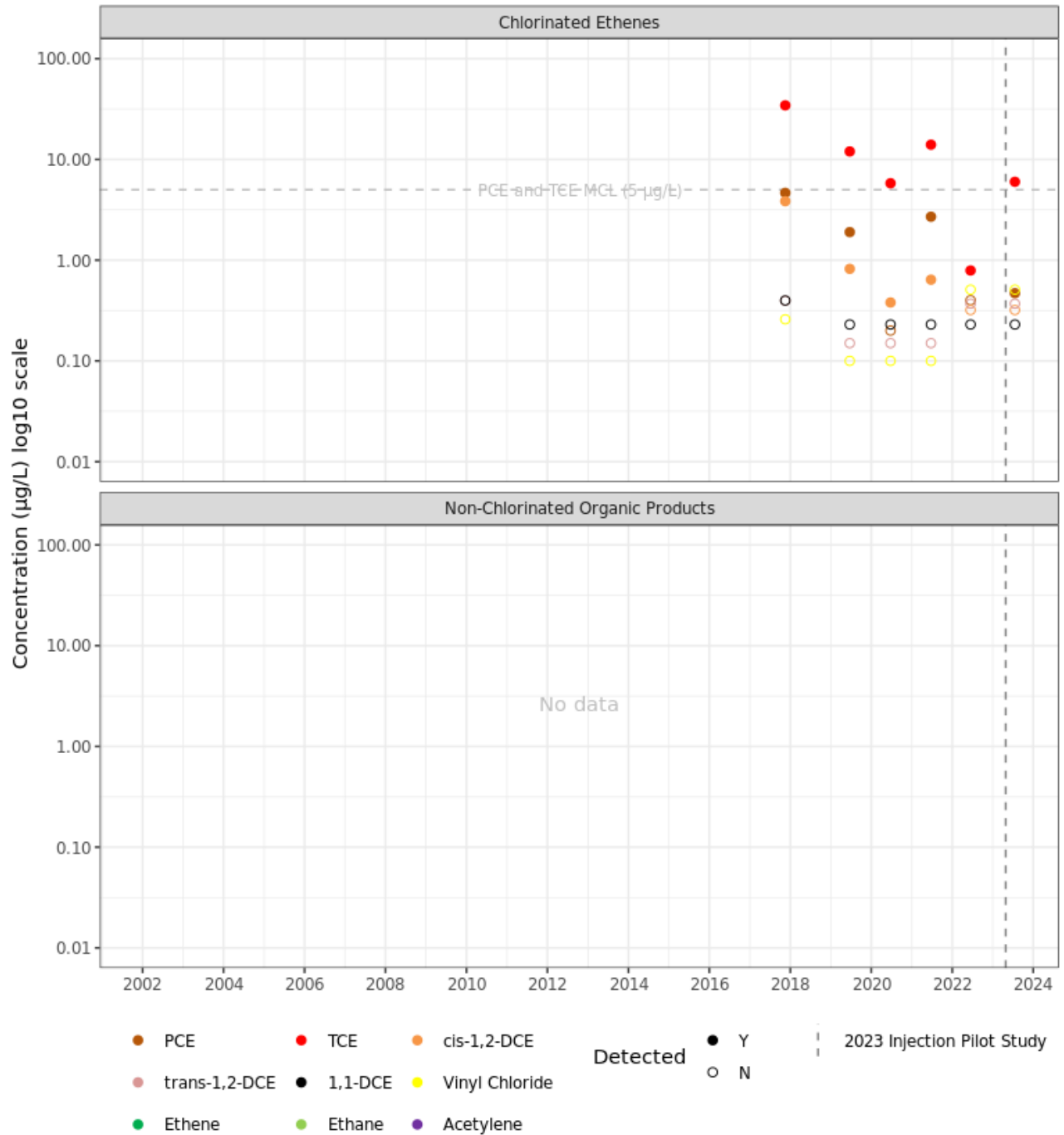
Chlorinated Ethene and Daughter Product Mass

RW-2151H Chlorinated Ethene and Daughter Product



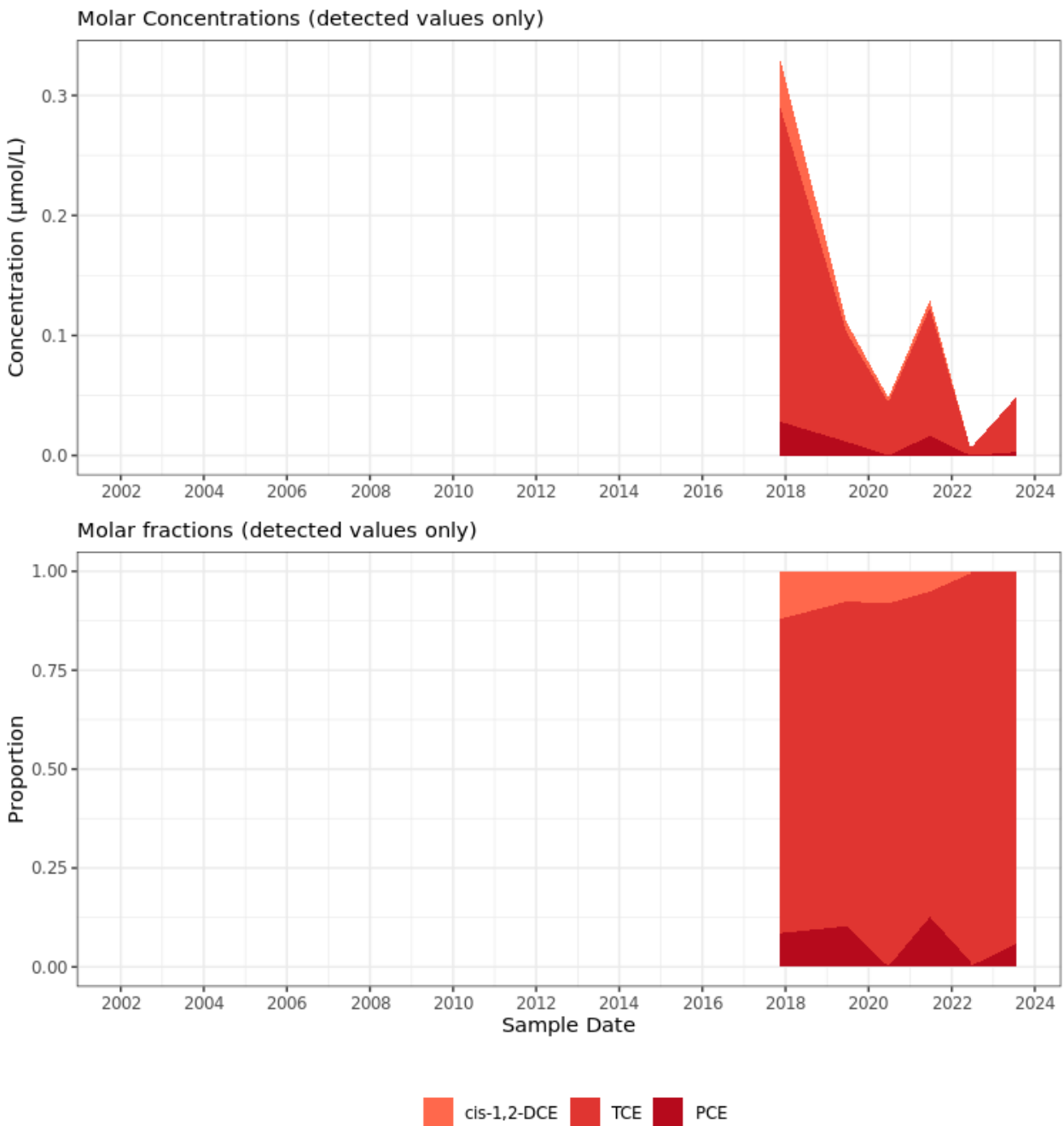
Chlorinated Ethene and Daughter Product Mass (log10)

RW-2151H Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

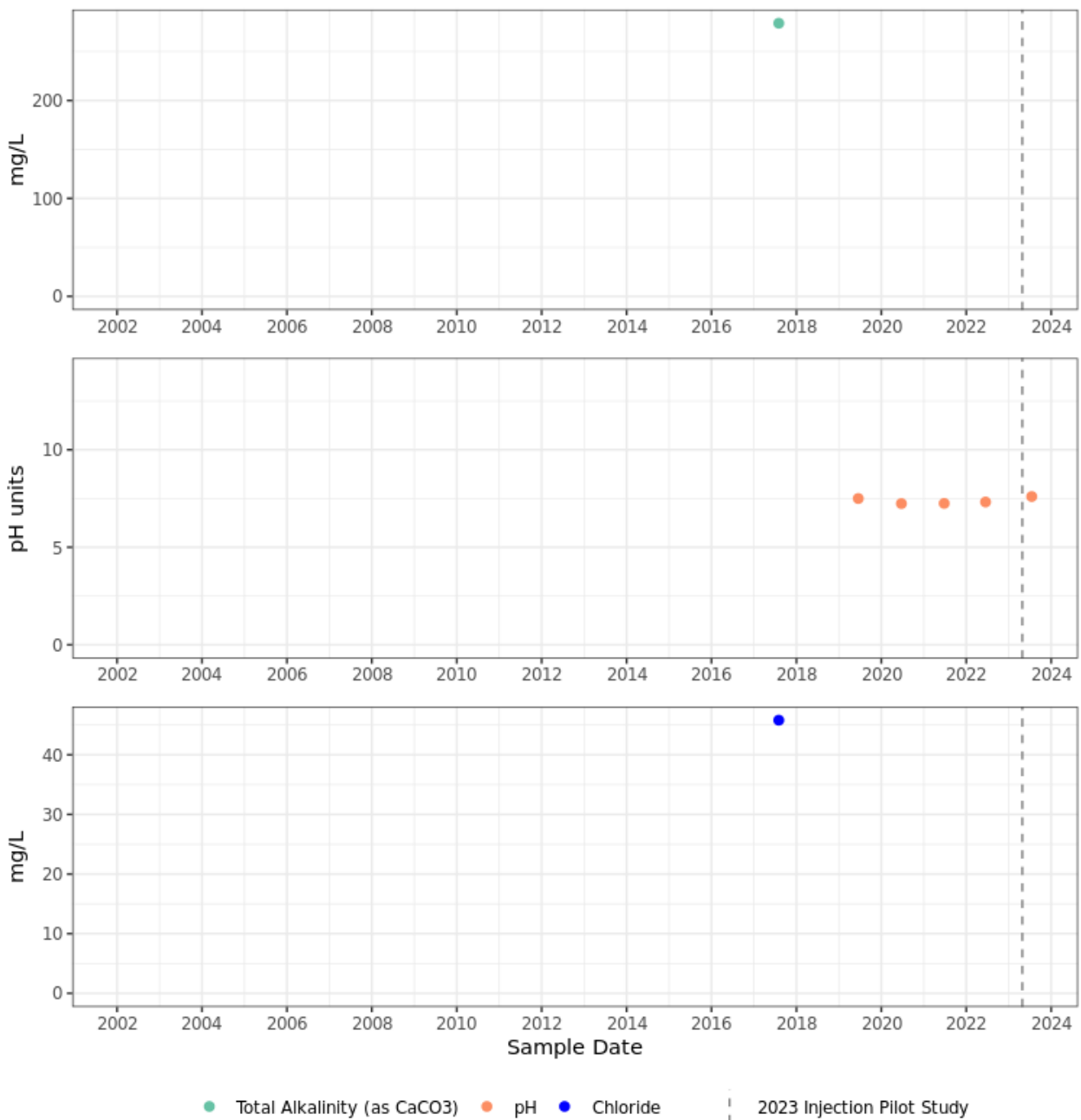
RW-2151H Chlorinated Ethene and Daughter Product



RW-2172F

Water Quality

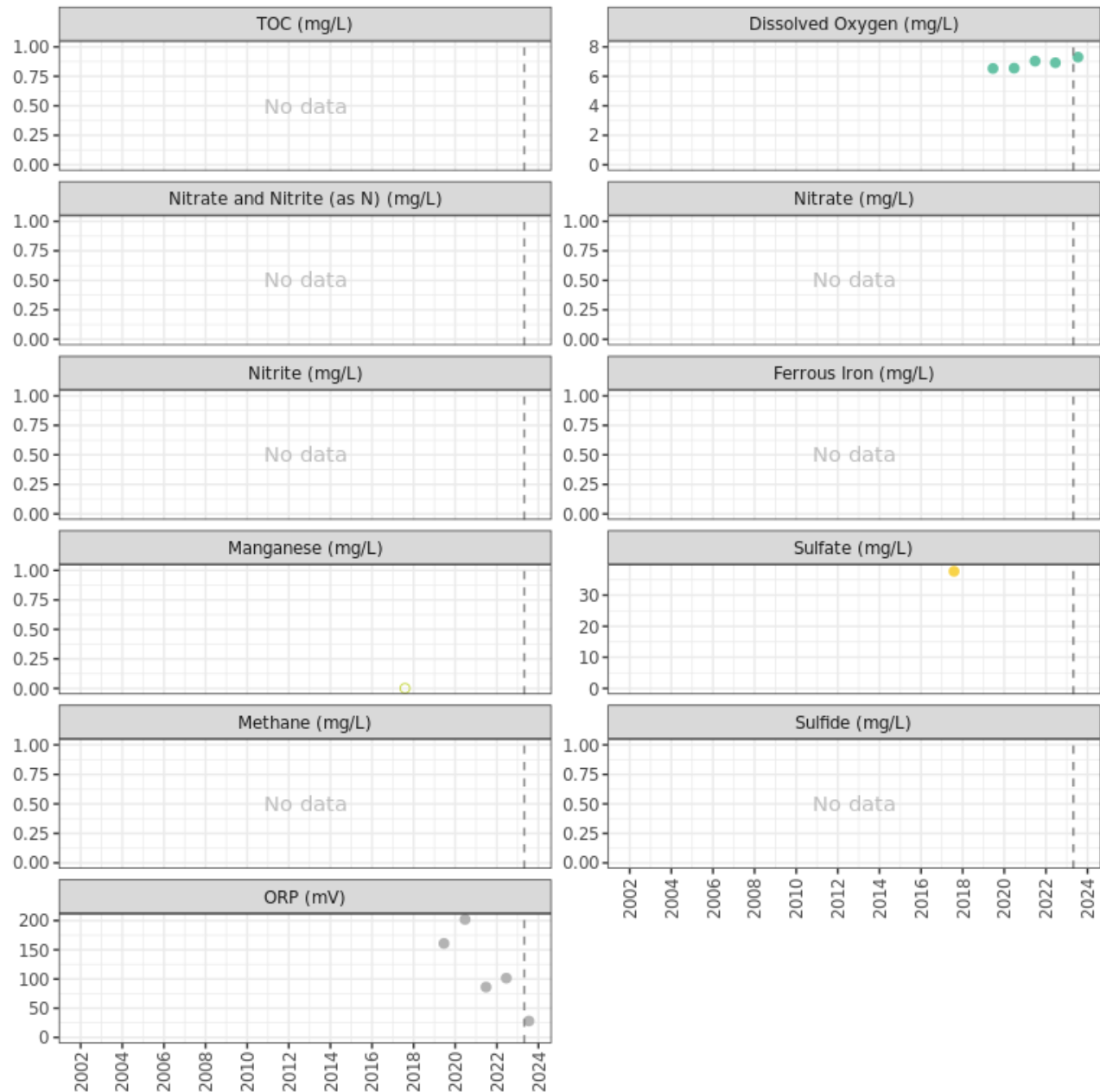
RW-2172F Water Quality Parameters



TOC and Redox Parameters

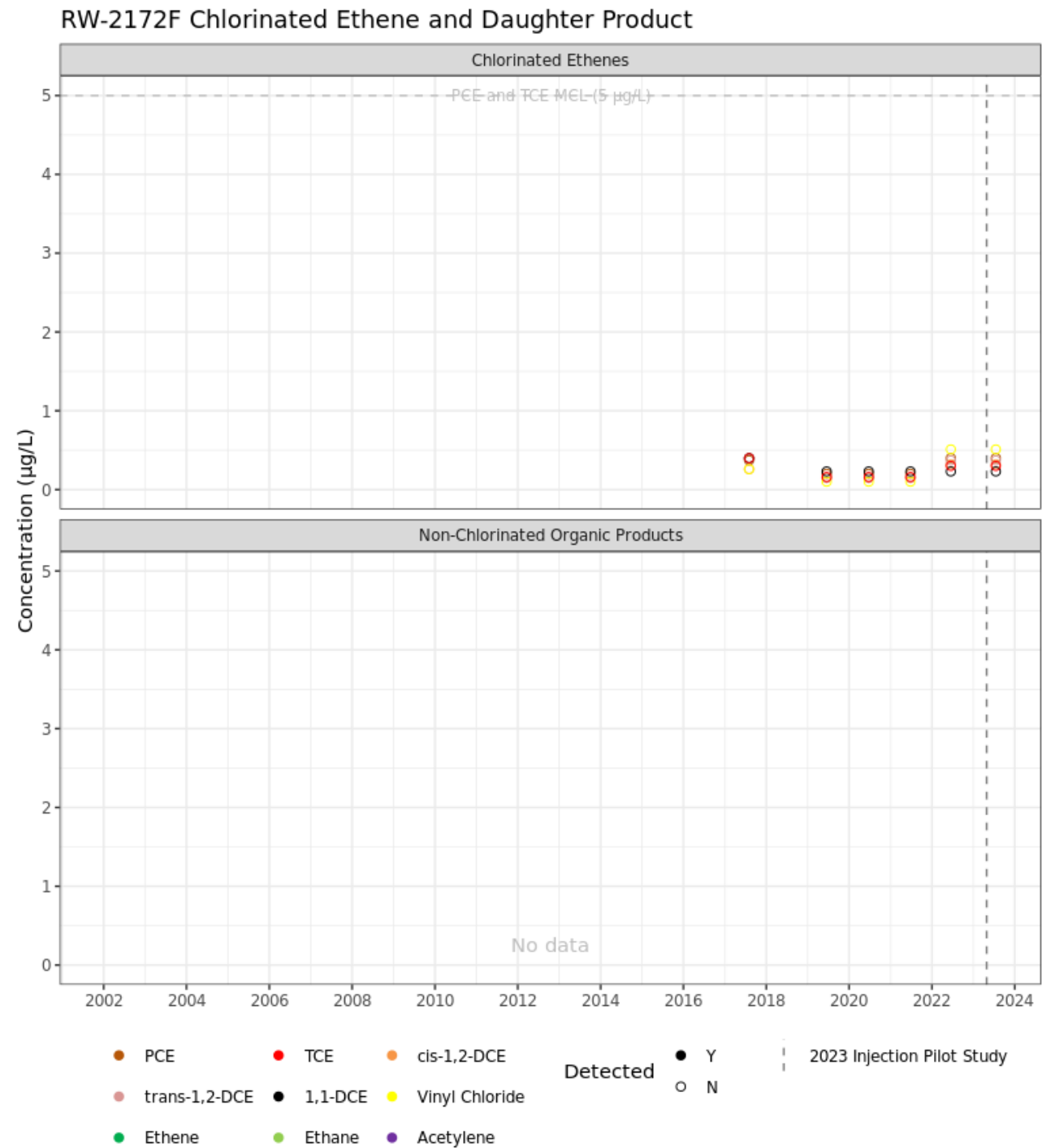
RW-2172F TOC and Redox Parameters

Mass Concentrations

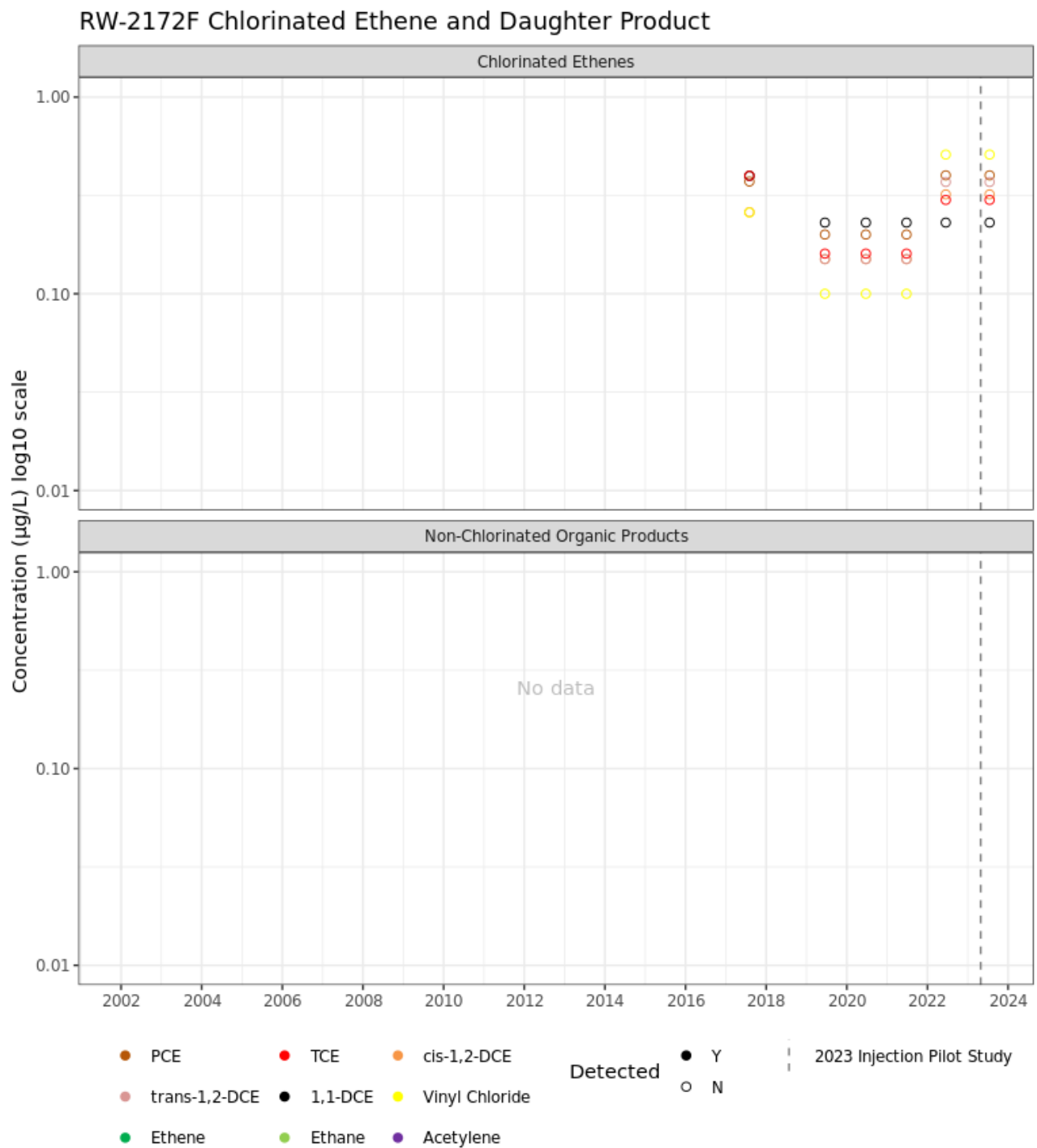


Detected ● Y ○ N | 2023 Injection Pilot Study

Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)



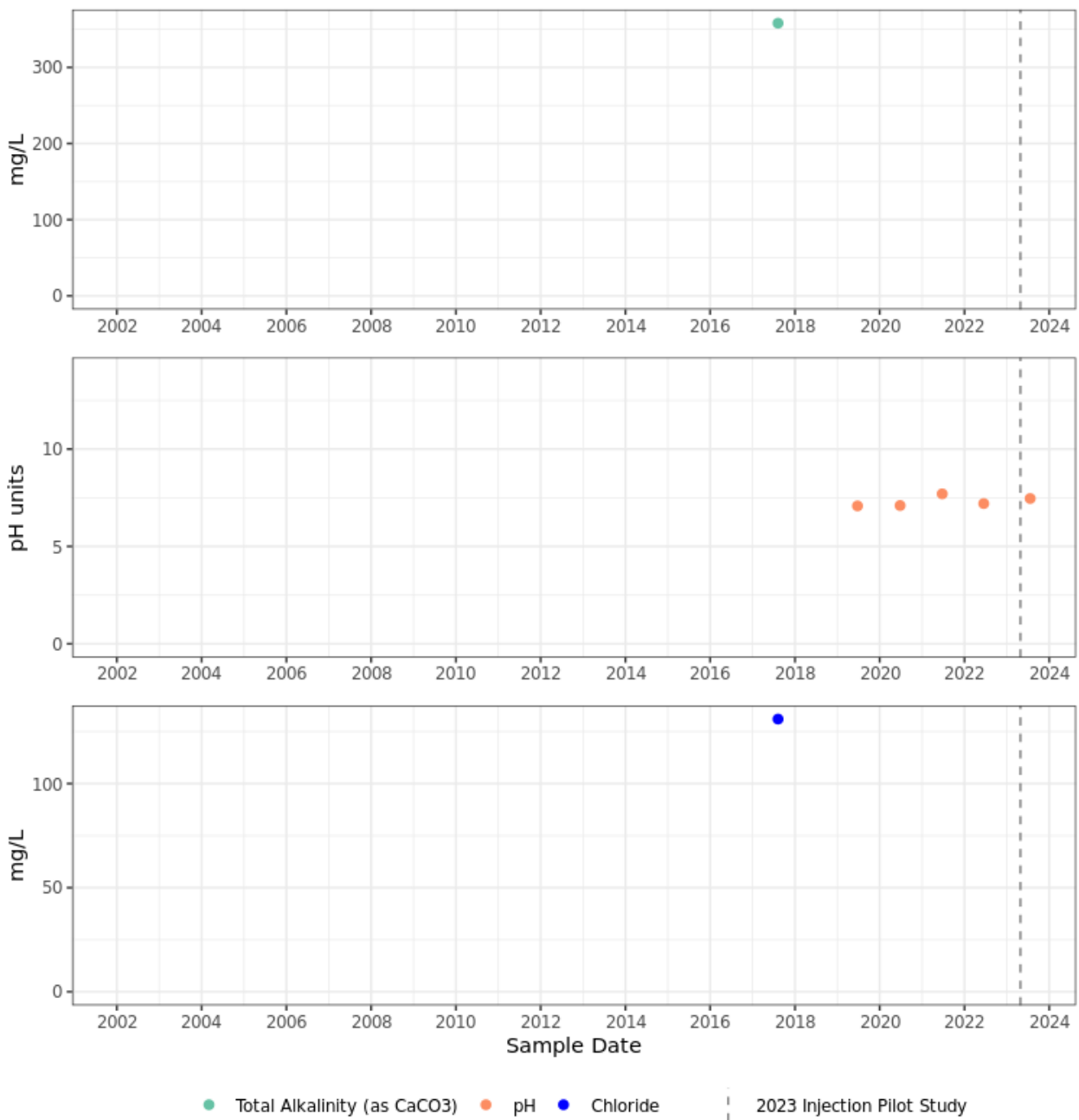
Chlorinated Ethene and Daughter Product Concentration

			No data				

RW-2172H

Water Quality

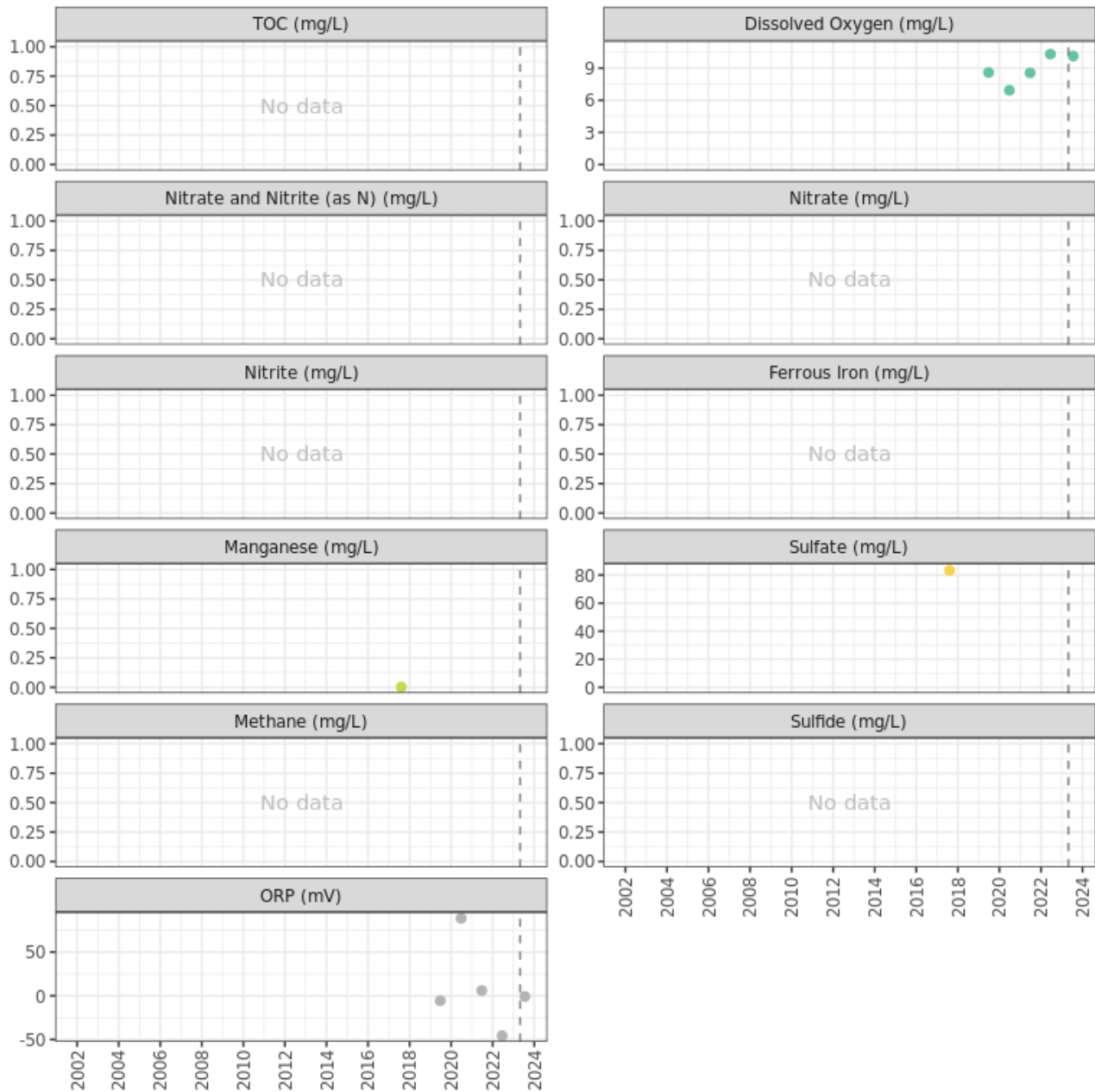
RW-2172H Water Quality Parameters



TOC and Redox Parameters

RW-2172H TOC and Redox Parameters

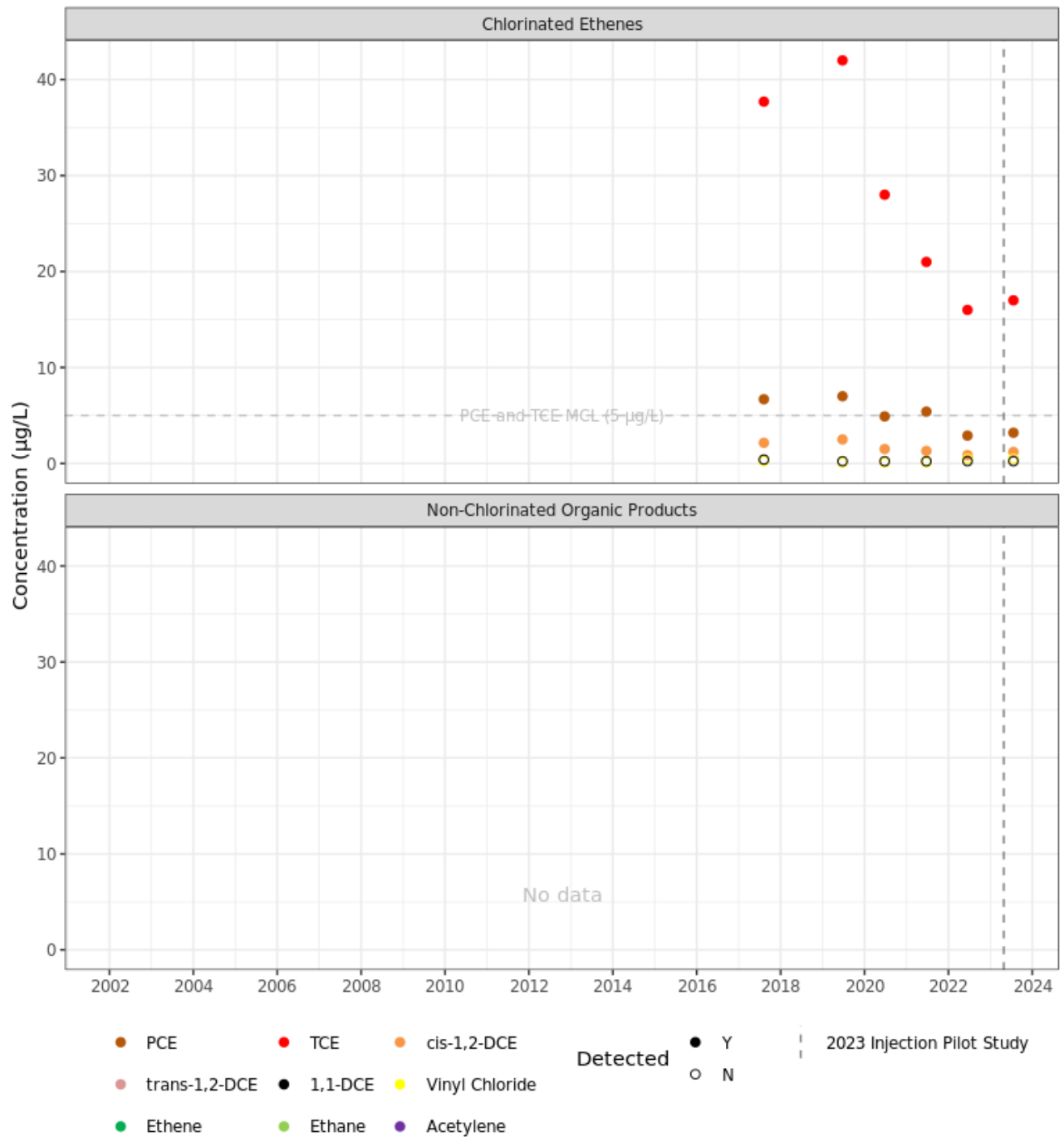
Mass Concentrations



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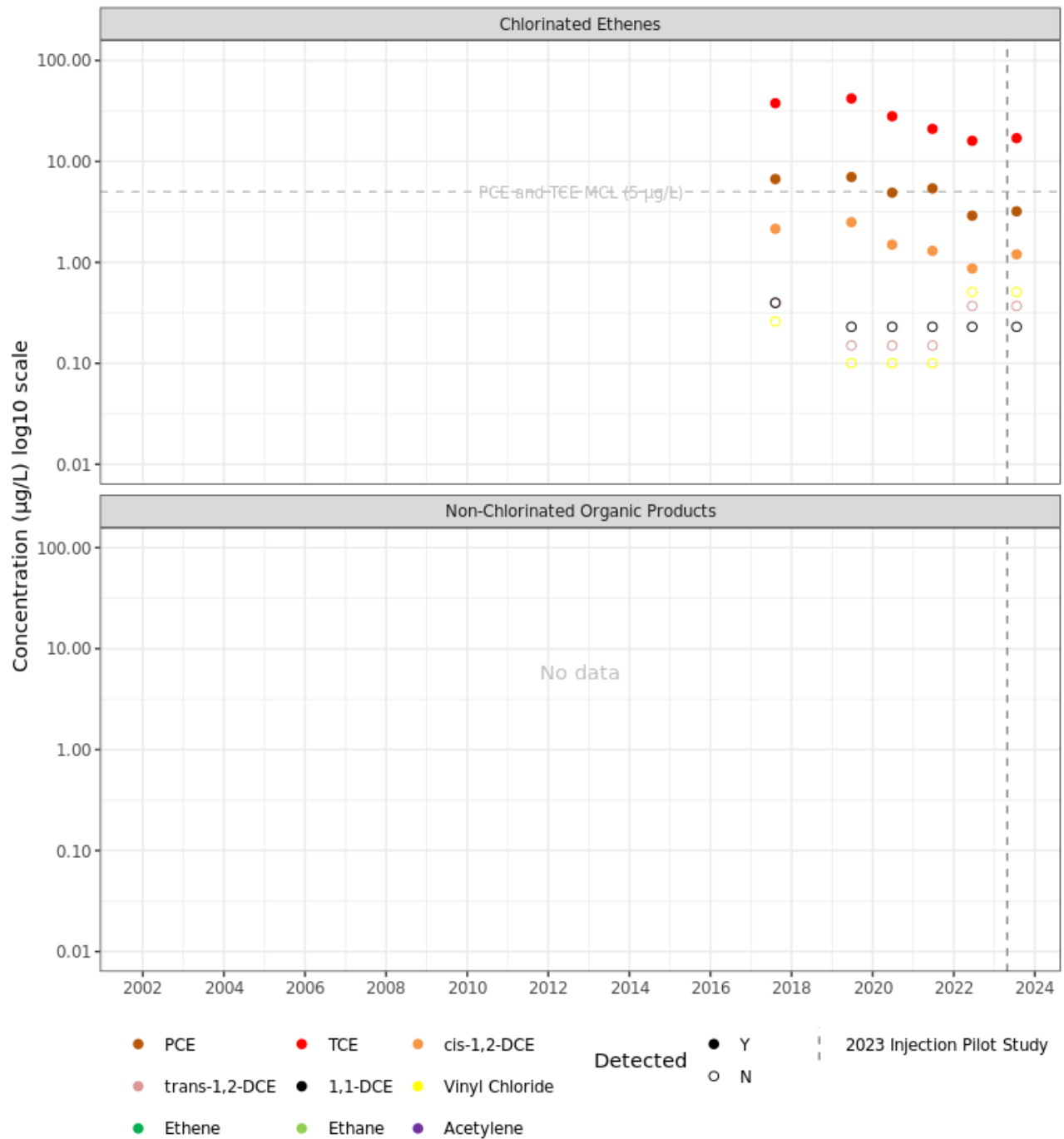
Chlorinated Ethene and Daughter Product Mass

RW-2172H Chlorinated Ethene and Daughter Product



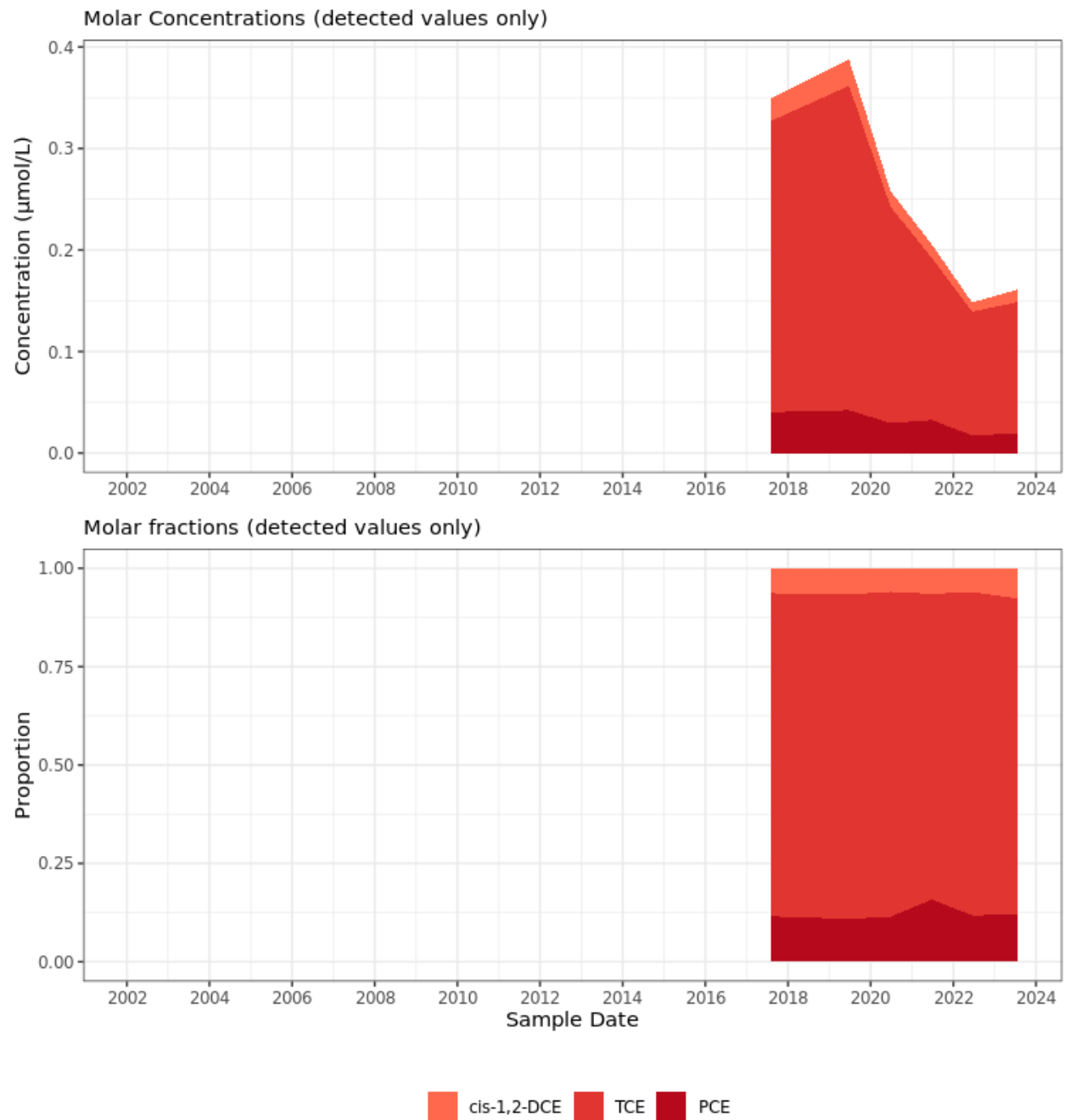
Chlorinated Ethene and Daughter Product Mass (log10)

RW-2172H Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

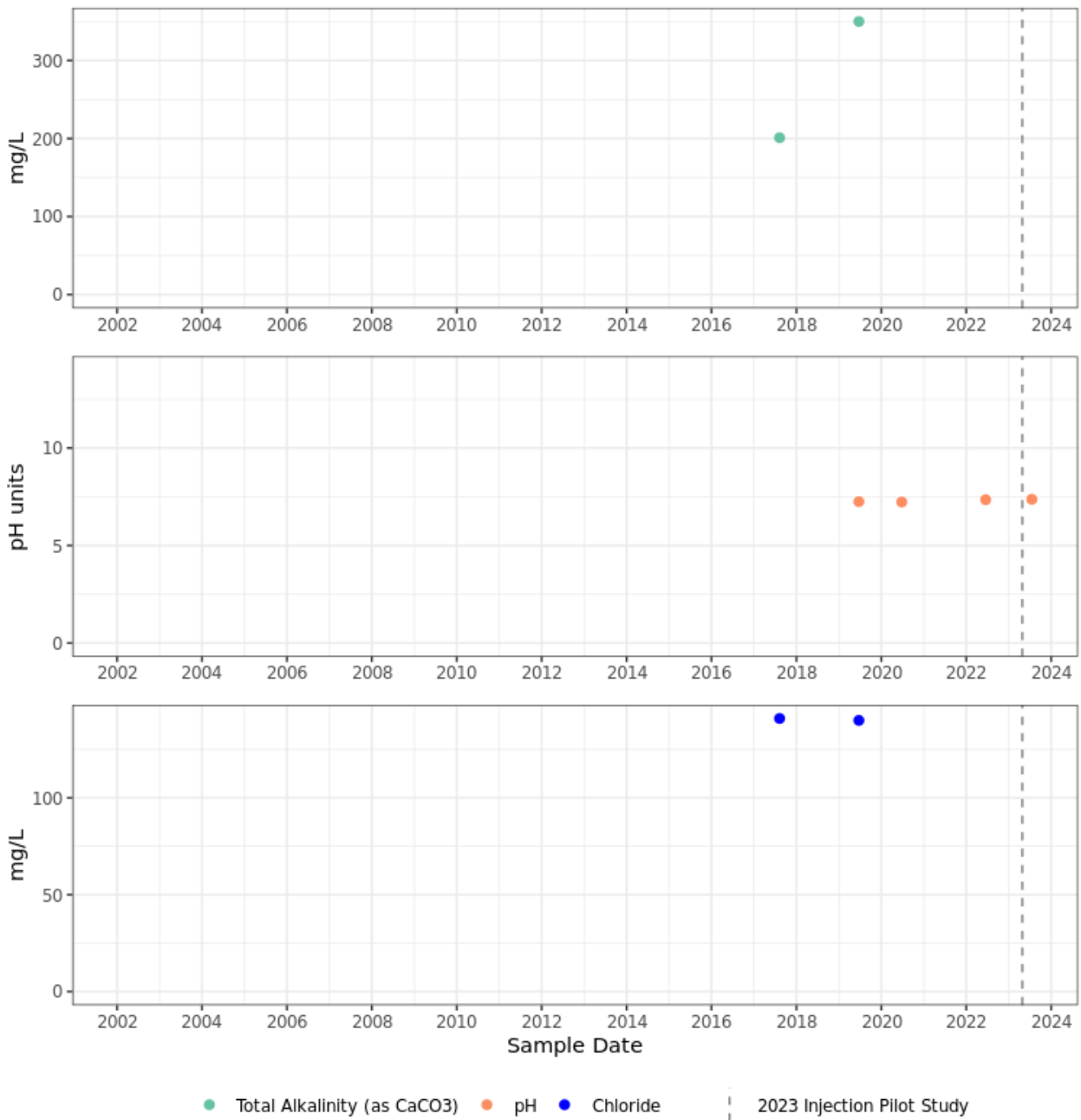
RW-2172H Chlorinated Ethene and Daughter Product



RW-2203H

Water Quality

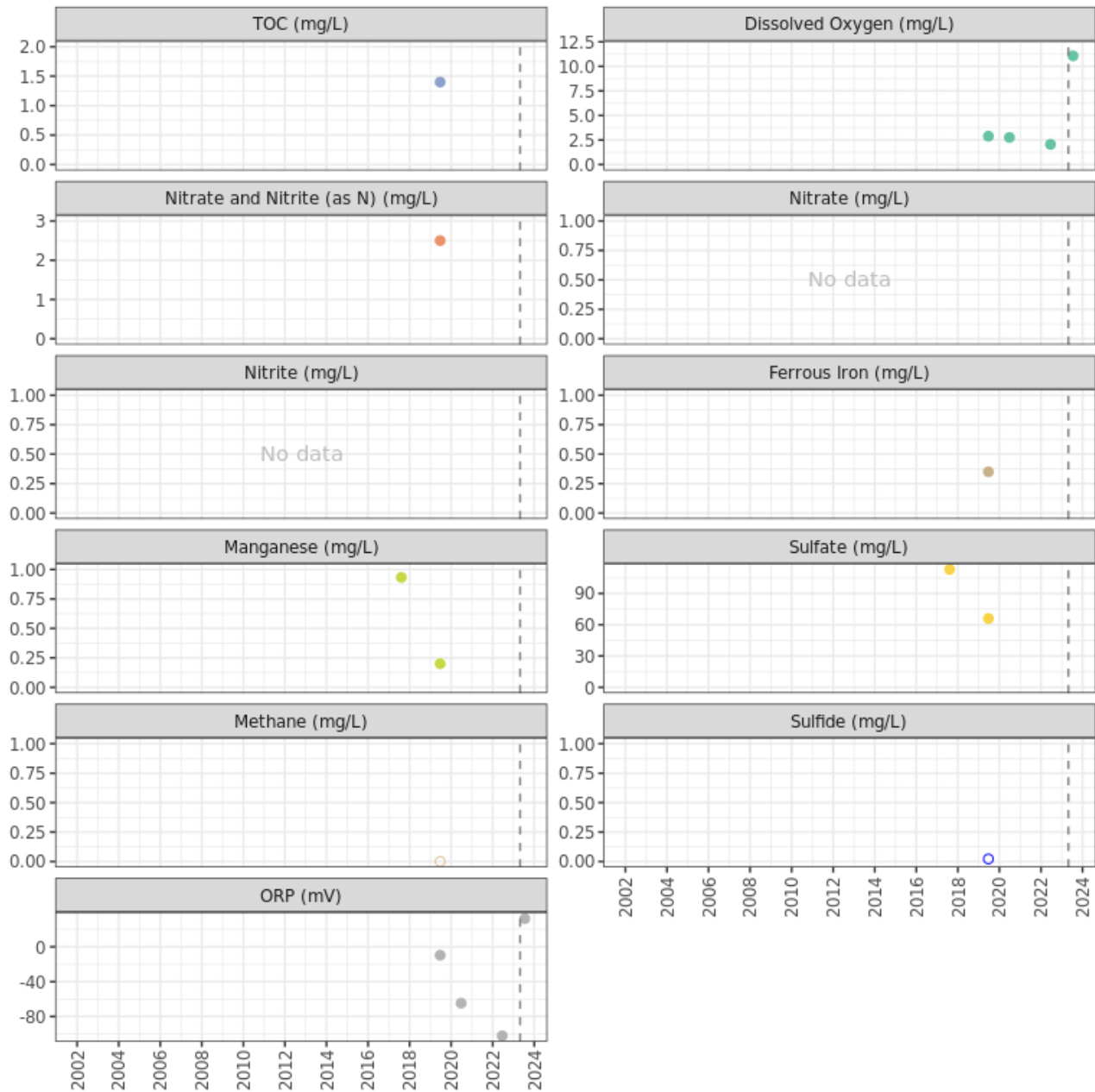
RW-2203H Water Quality Parameters



TOC and Redox Parameters

RW-2203H TOC and Redox Parameters

Mass Concentrations

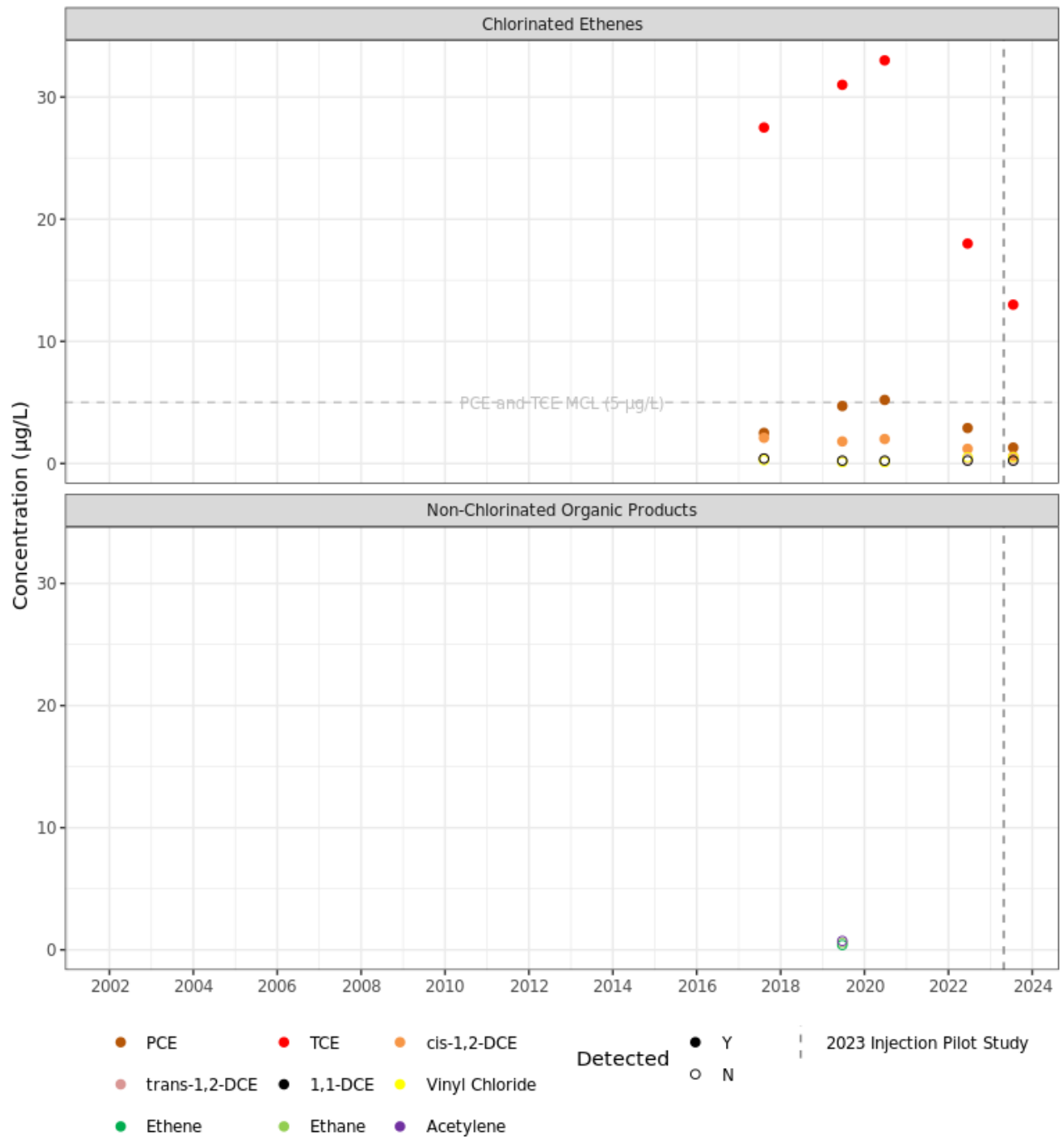


Detected ● Y ○ N

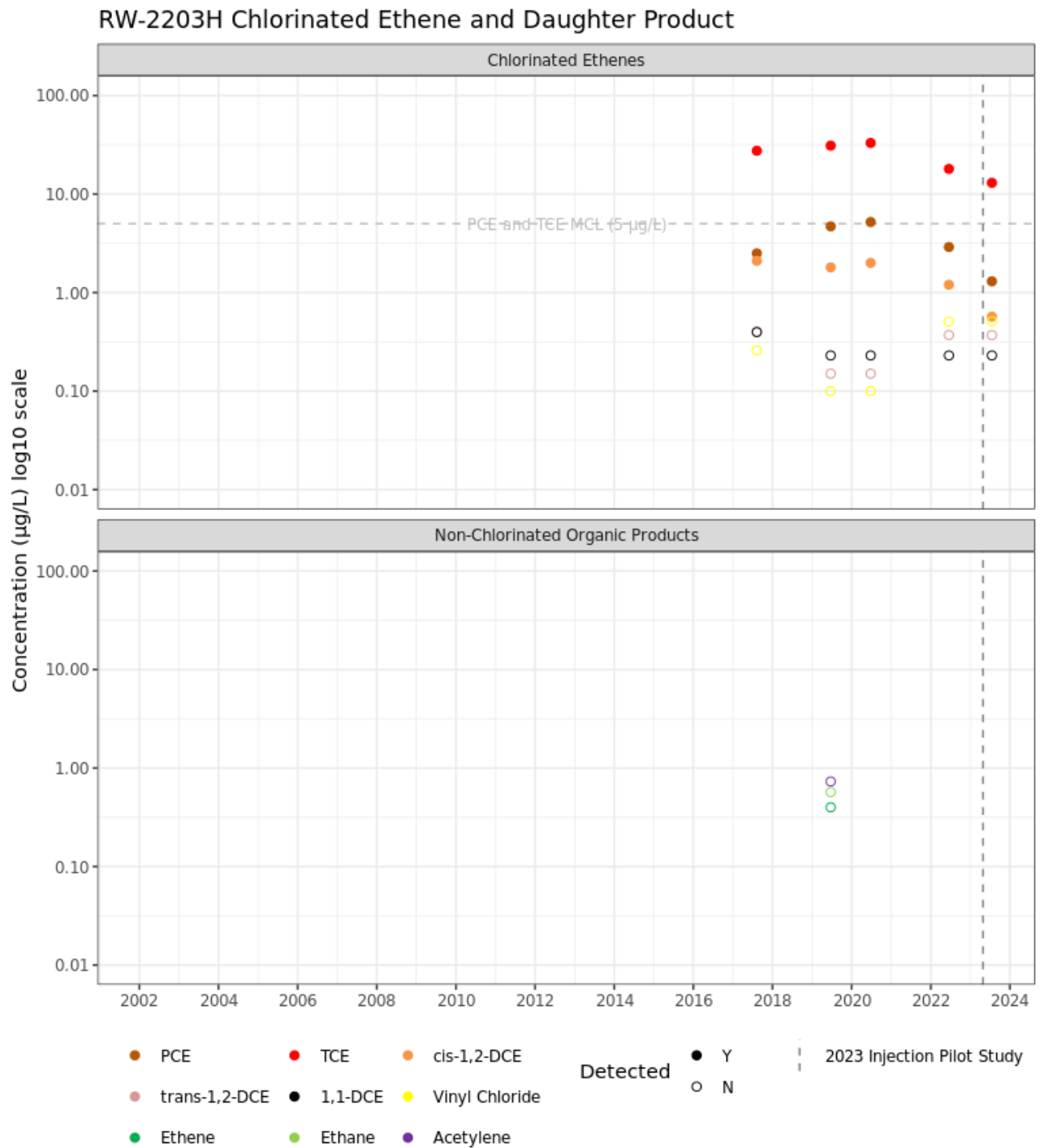
2023 Injection Pilot Study

Chlorinated Ethene and Daughter Product Mass

RW-2203H Chlorinated Ethene and Daughter Product

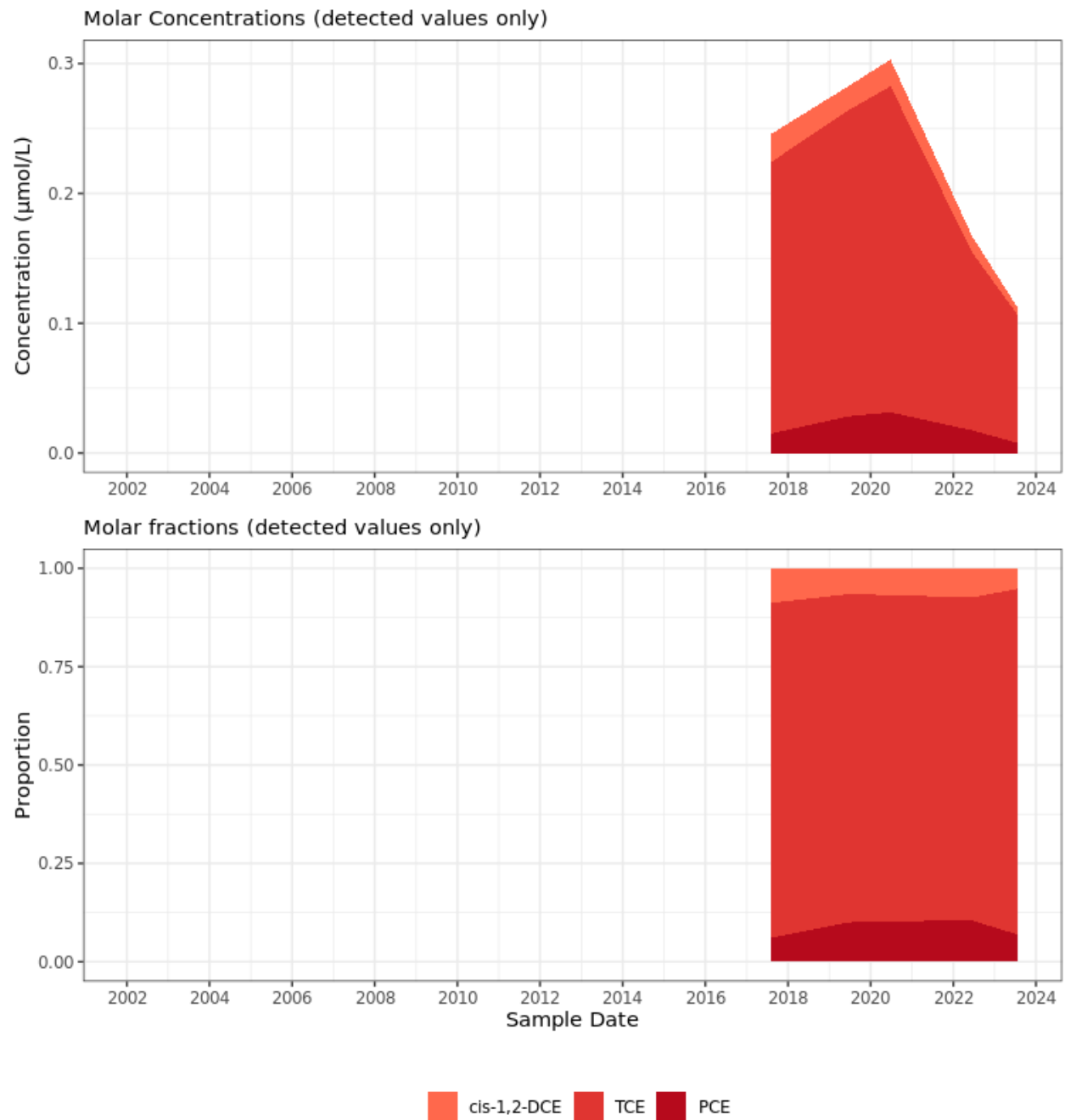


Chlorinated Ethene and Daughter Product Mass (log10)



Chlorinated Ethene and Daughter Product Concentration

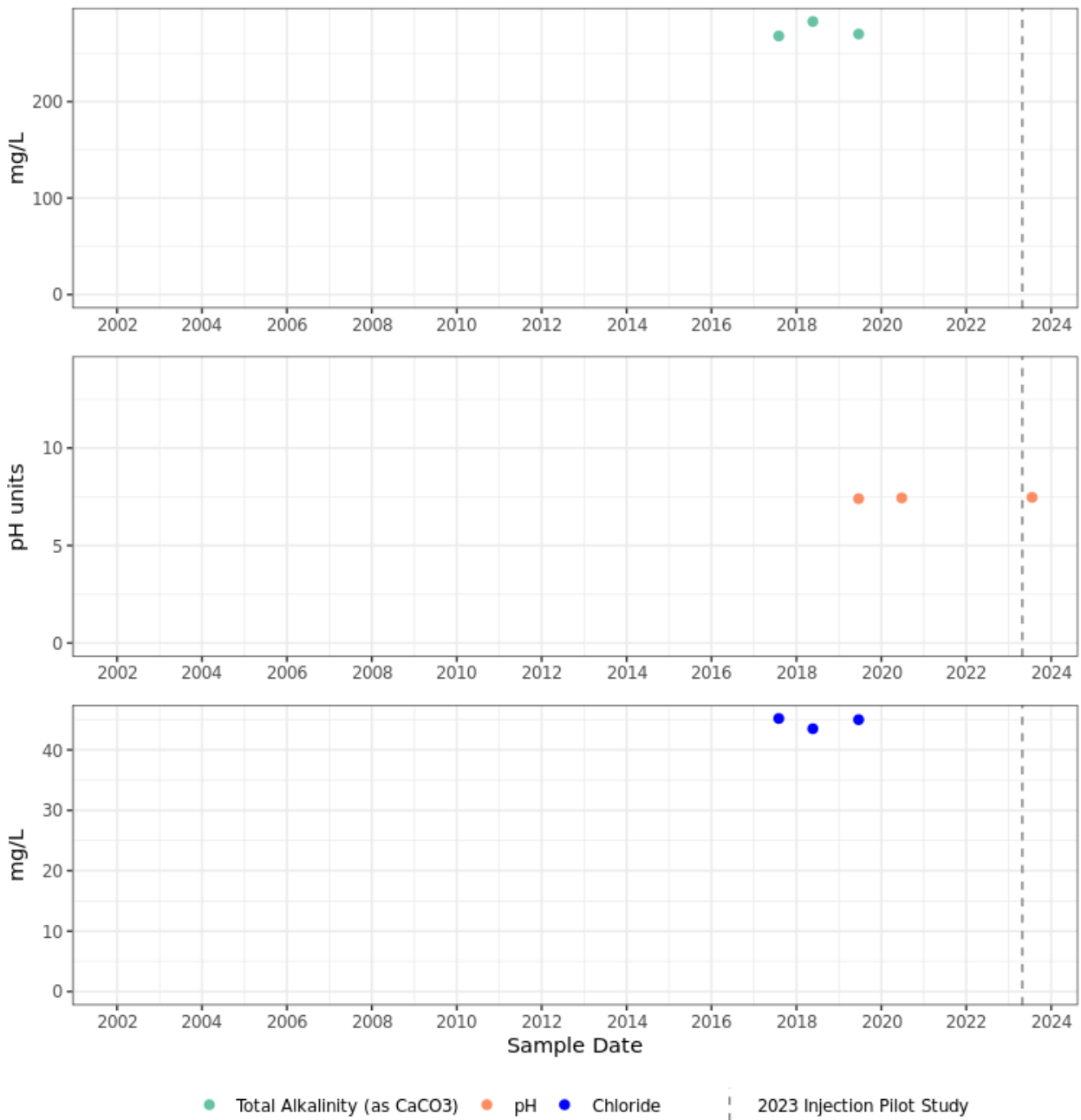
RW-2203H Chlorinated Ethene and Daughter Product



RW-2213F

Water Quality

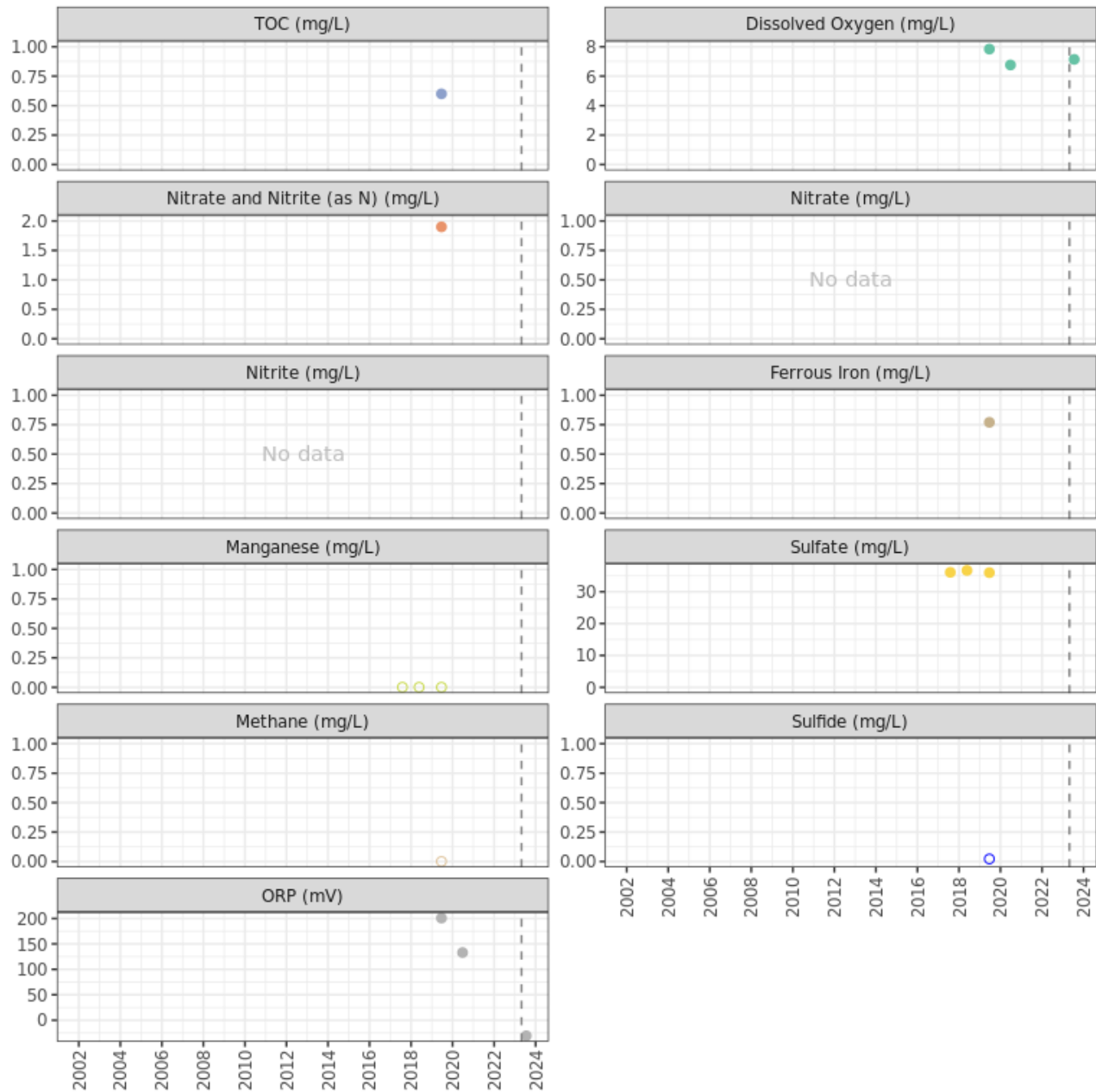
RW-2213F Water Quality Parameters



TOC and Redox Parameters

RW-2213F TOC and Redox Parameters

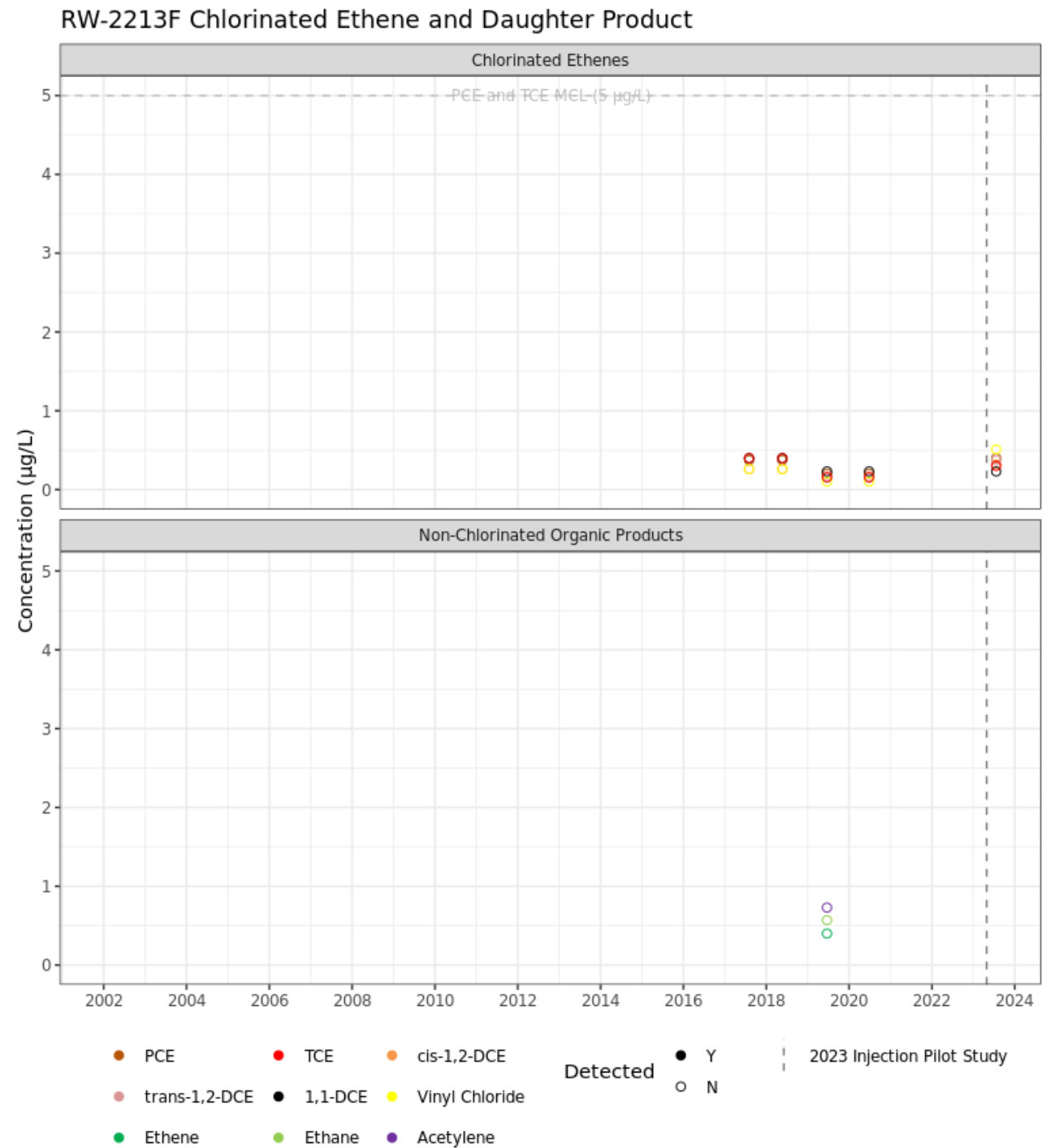
Mass Concentrations



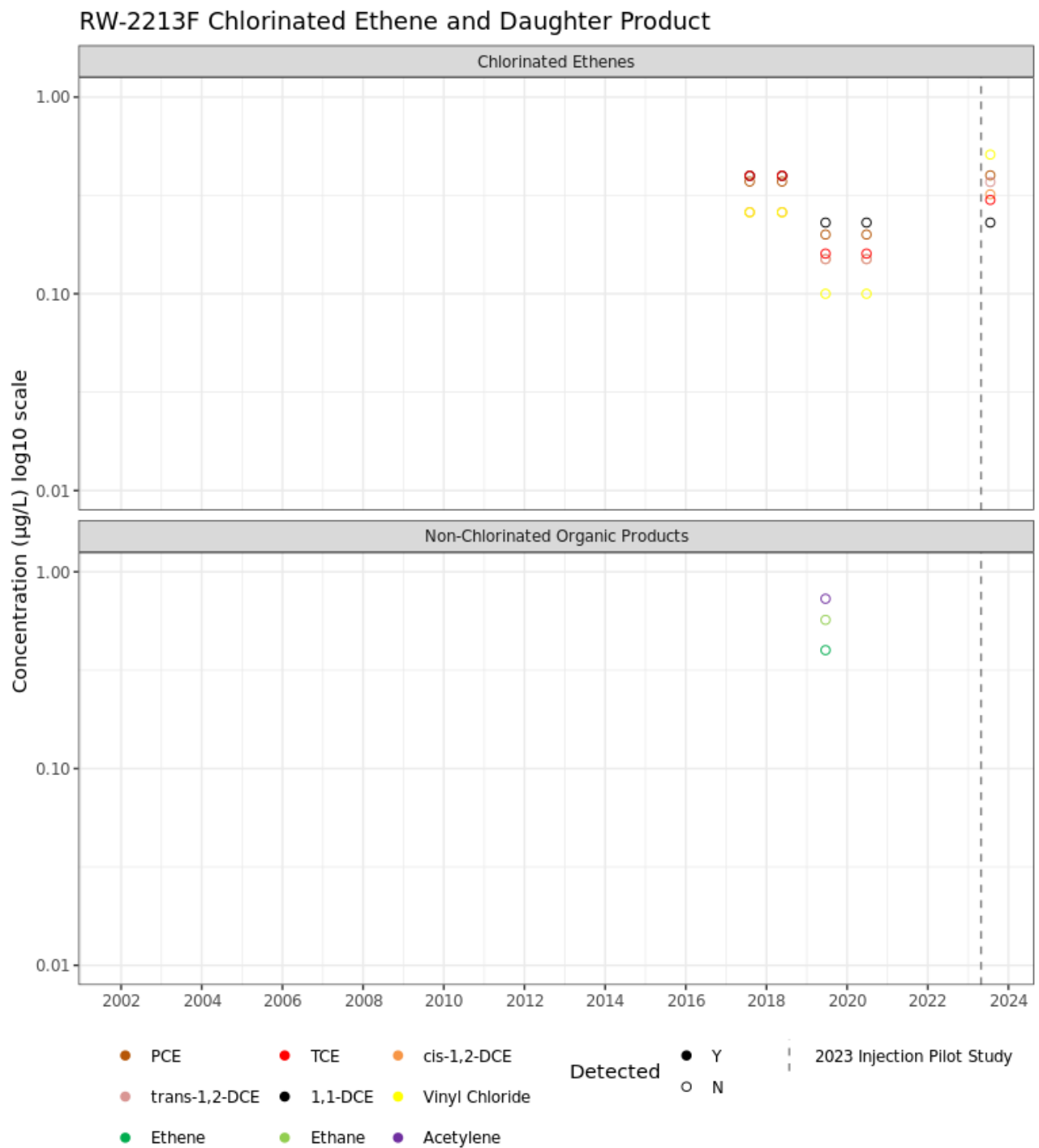
Detected ● Y ○ N

2023 Injection Pilot Study

Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)



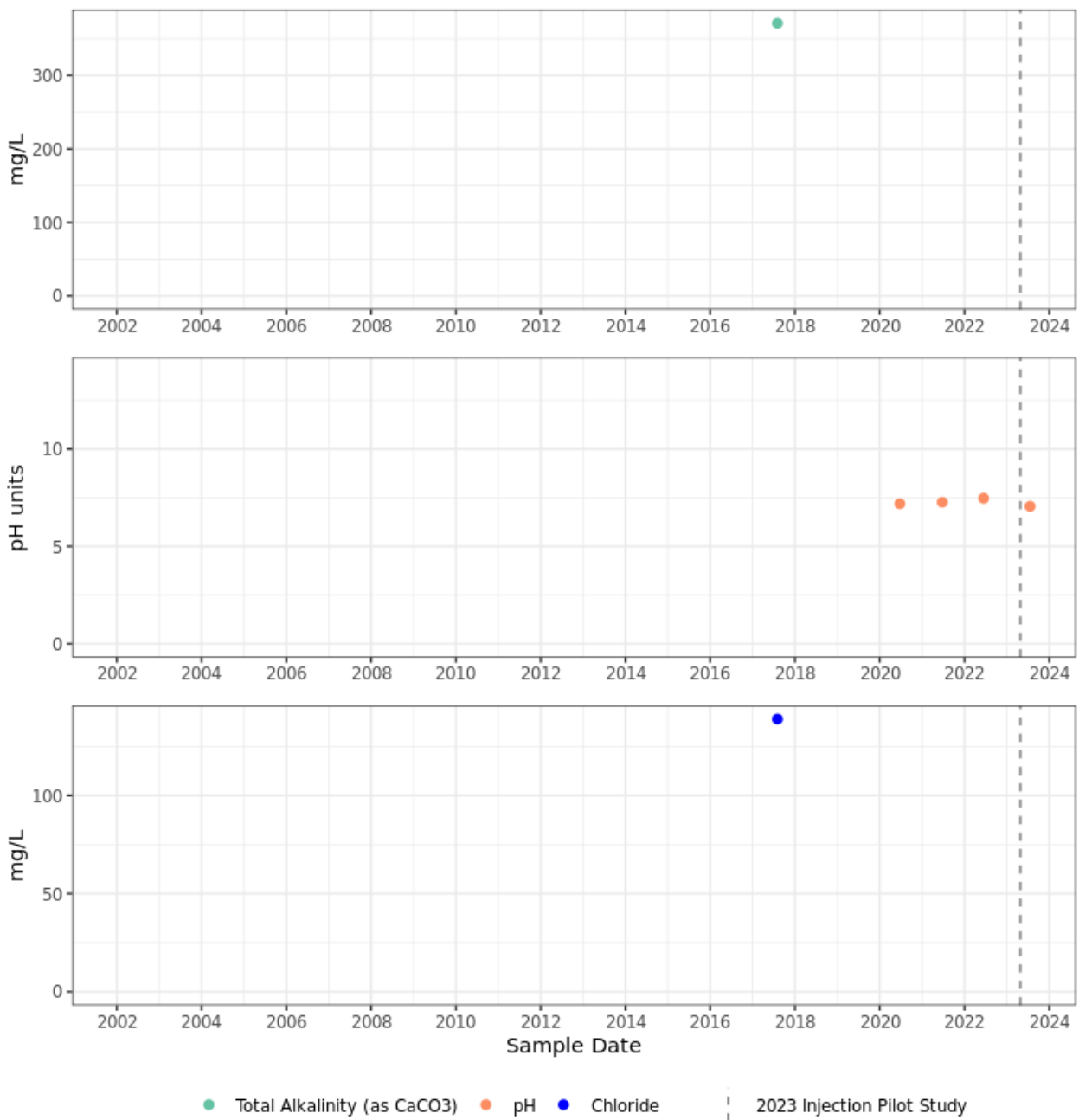
Chlorinated Ethene and Daughter Product Concentration

			No data				

RW-2237H

Water Quality

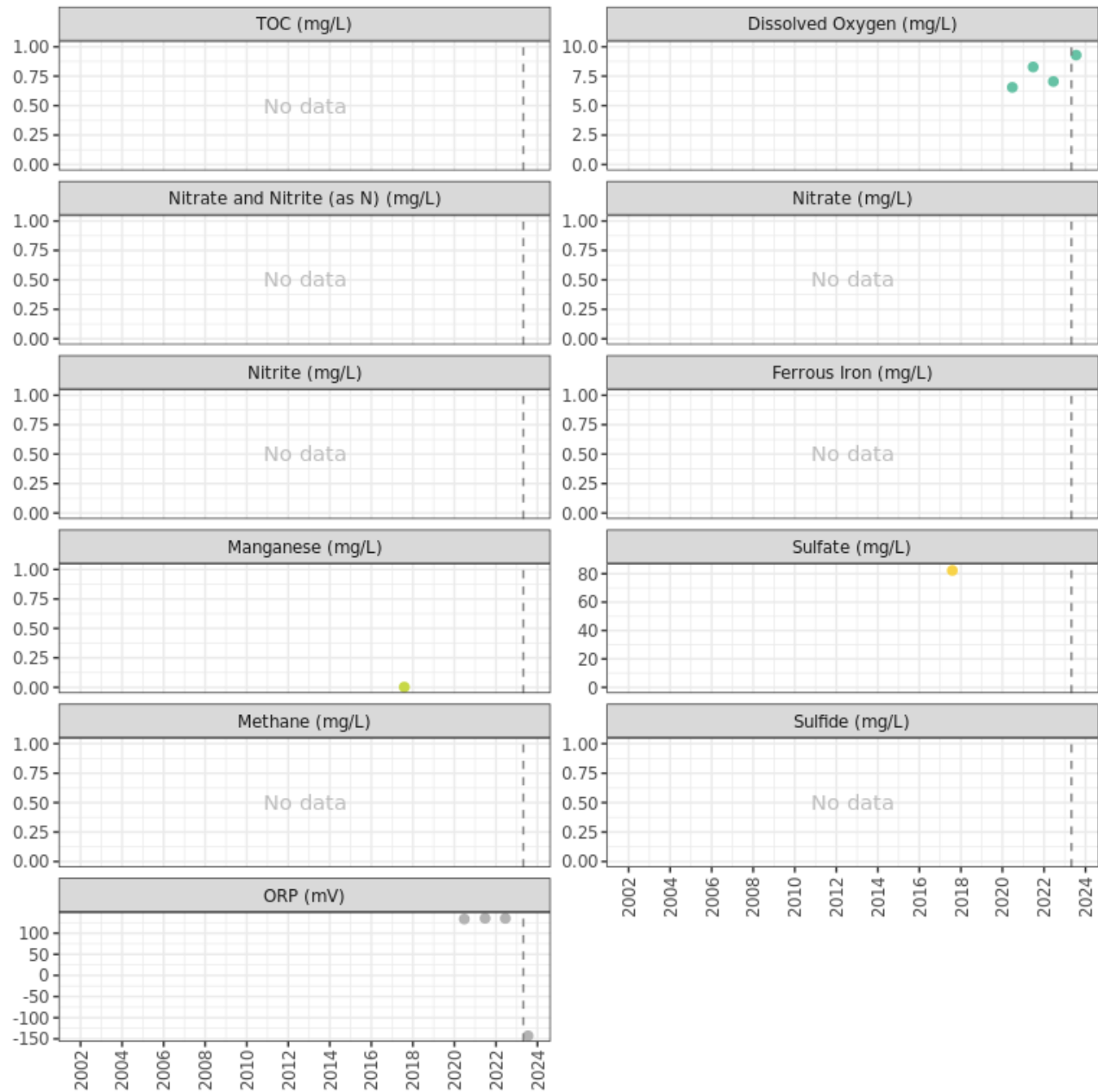
RW-2237H Water Quality Parameters



TOC and Redox Parameters

RW-2237H TOC and Redox Parameters

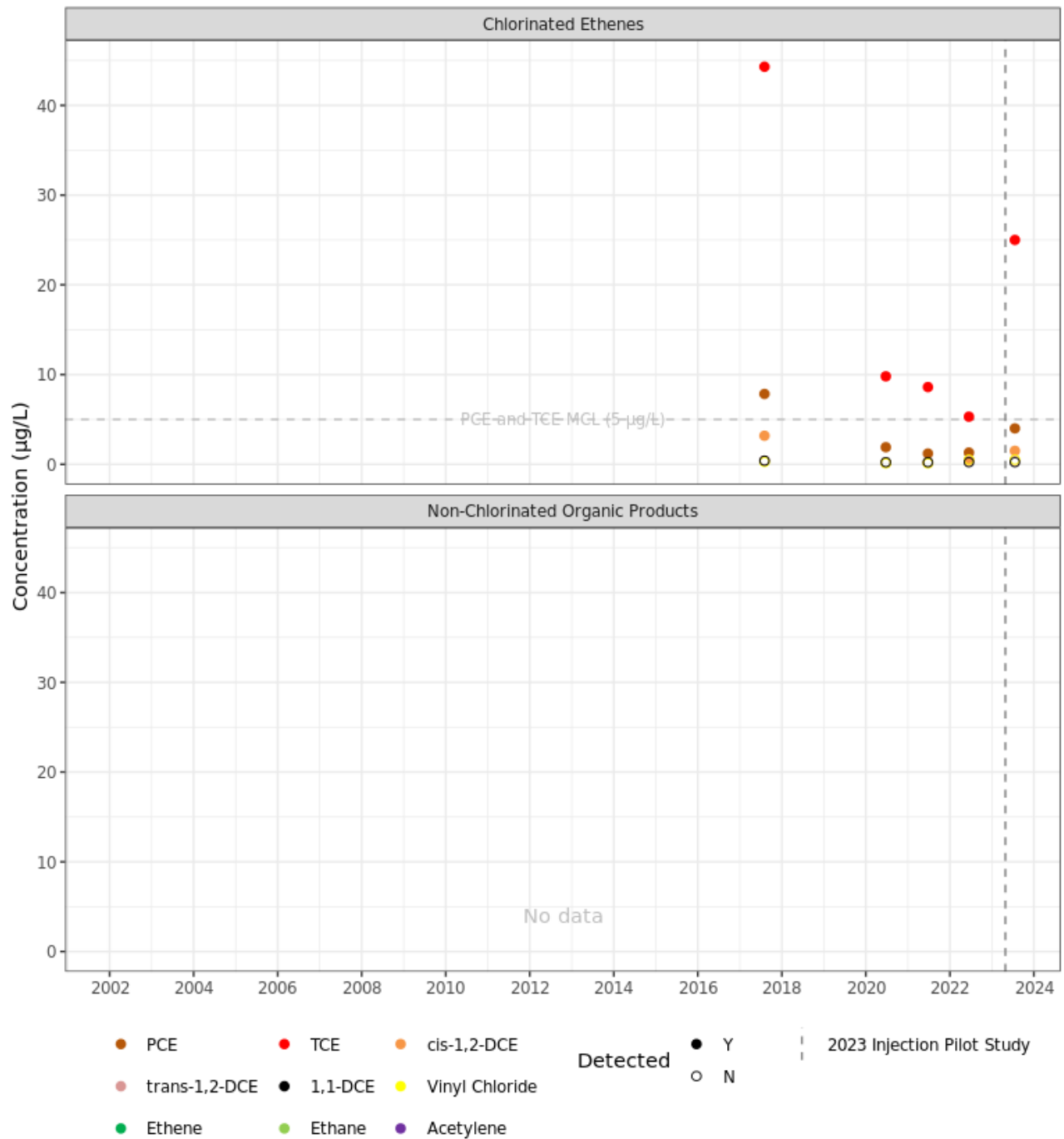
Mass Concentrations



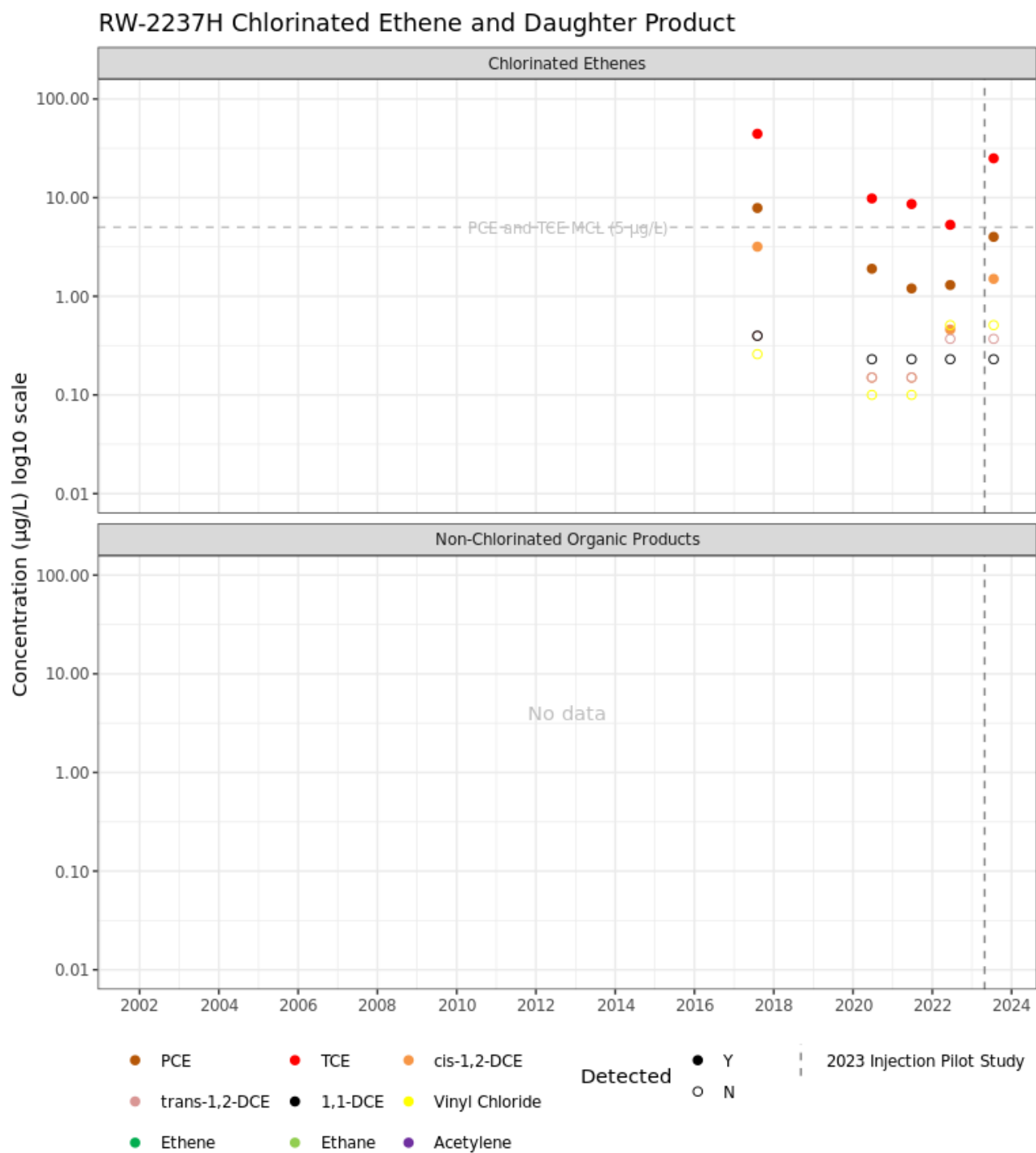
Detected ● Y | 2023 Injection Pilot Study

Chlorinated Ethene and Daughter Product Mass

RW-2237H Chlorinated Ethene and Daughter Product

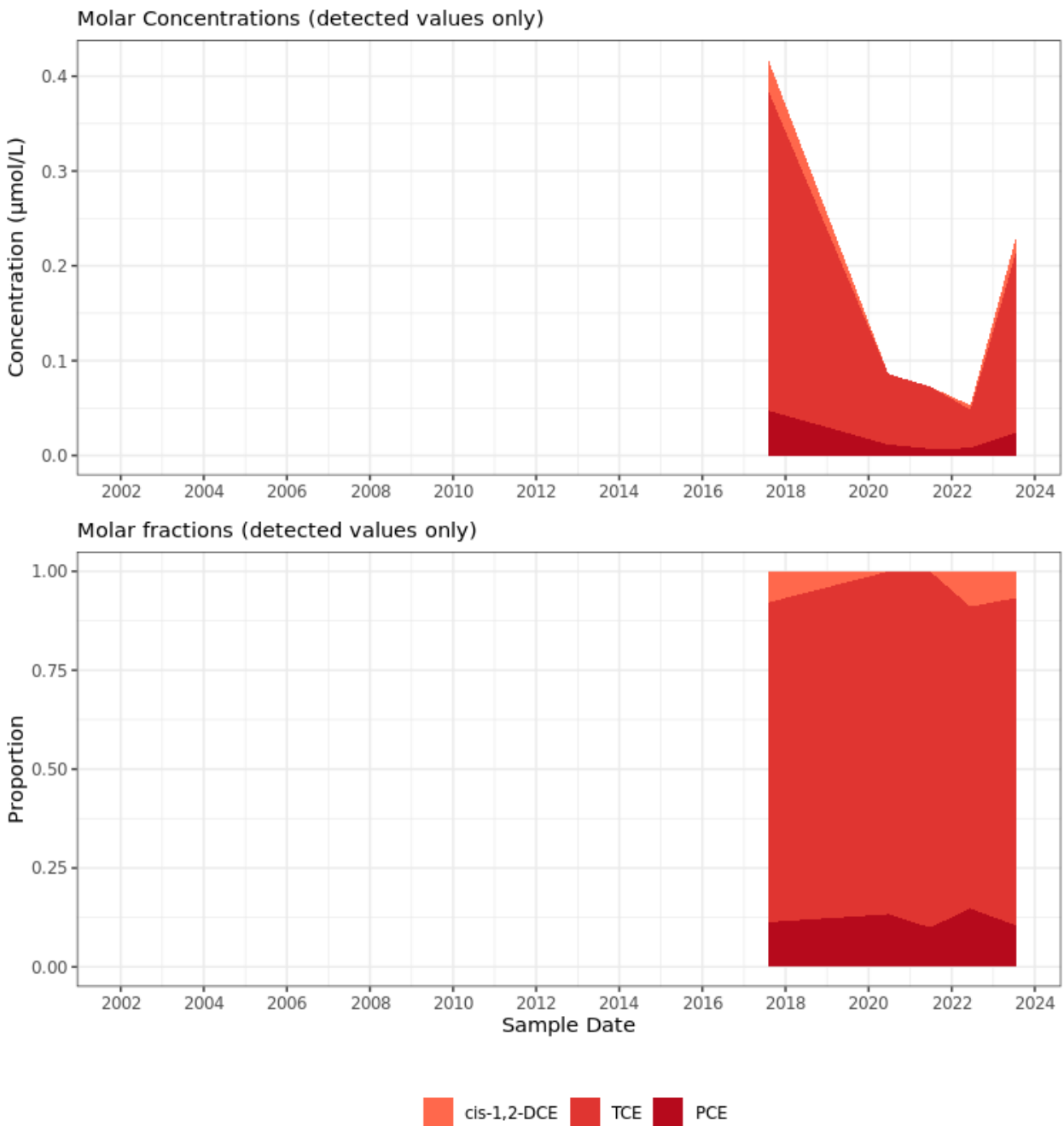


Chlorinated Ethene and Daughter Product Mass (log10)



Chlorinated Ethene and Daughter Product Concentration

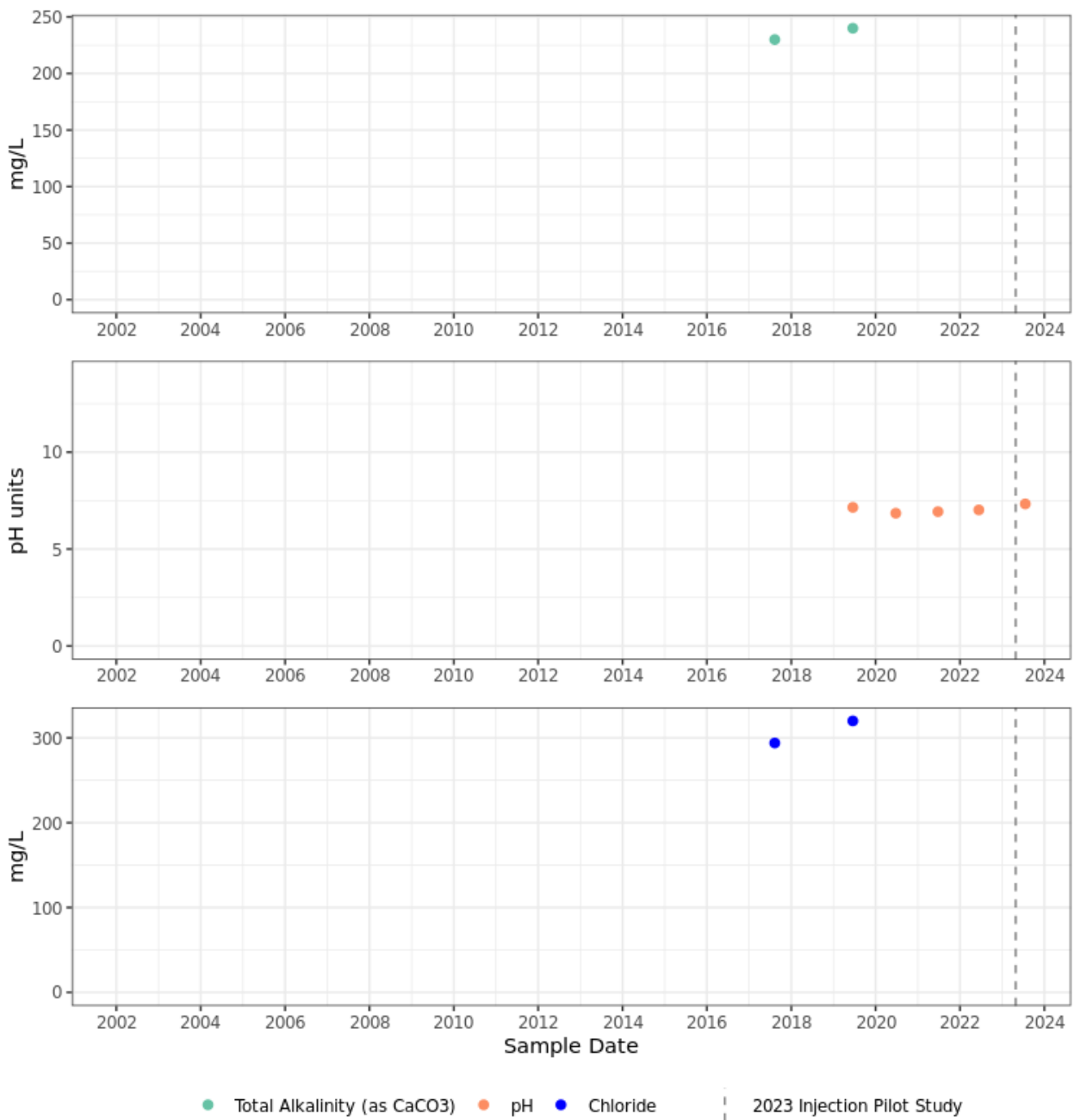
RW-2237H Chlorinated Ethene and Daughter Product



RW-2879M

Water Quality

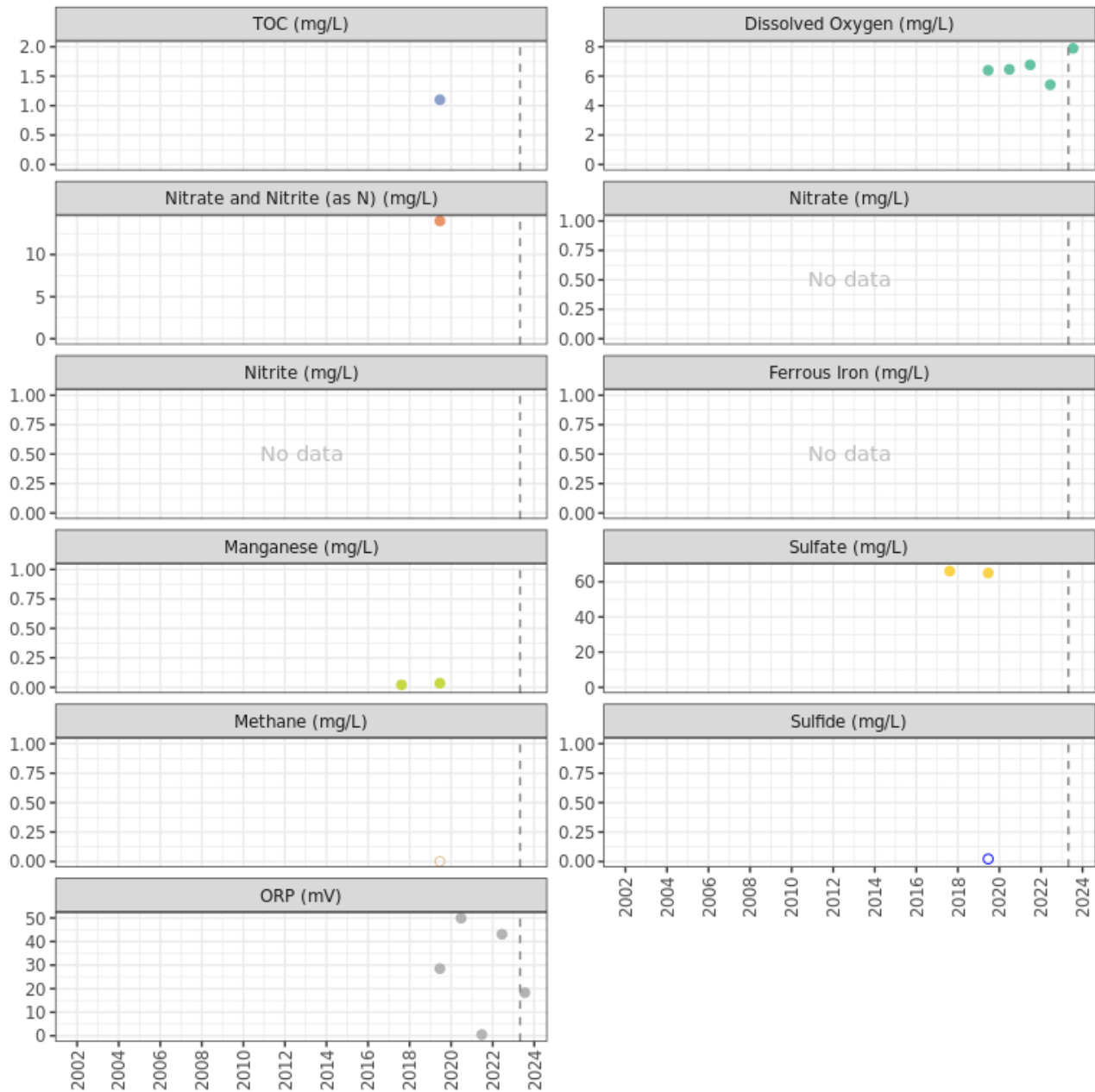
RW-2879M Water Quality Parameters



TOC and Redox Parameters

RW-2879M TOC and Redox Parameters

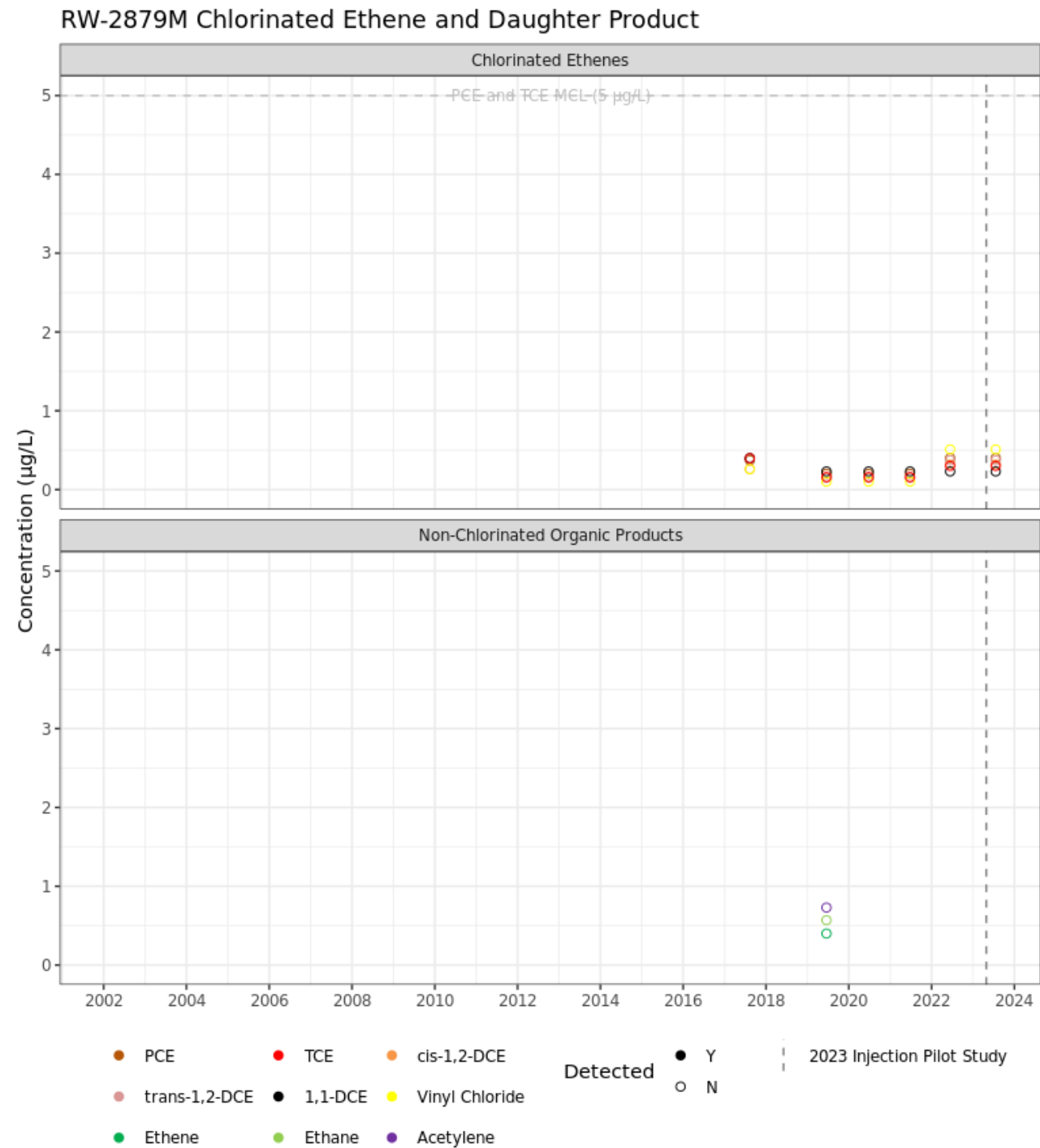
Mass Concentrations



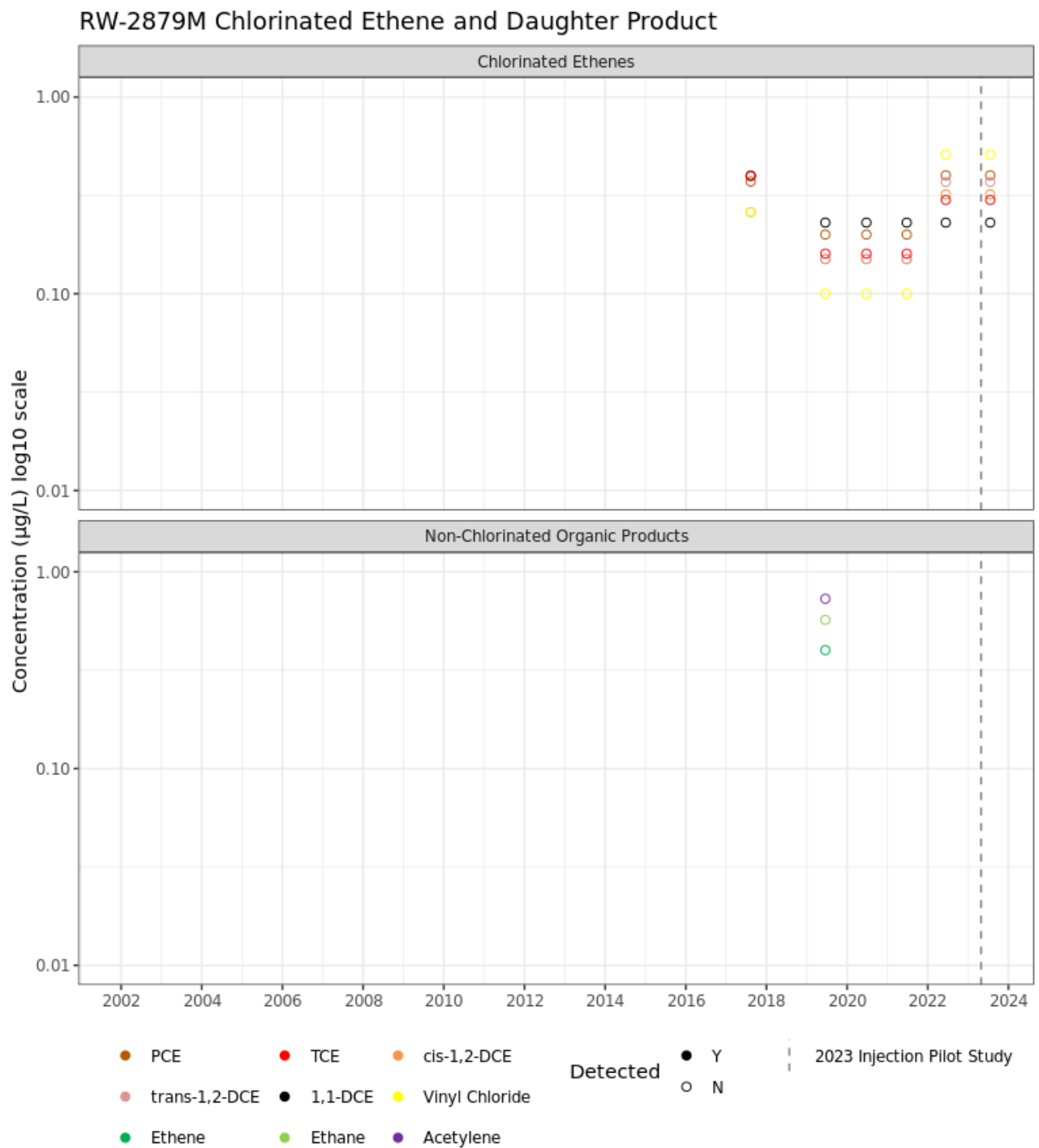
Detected ● Y ○ N

2023 Injection Pilot Study

Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)



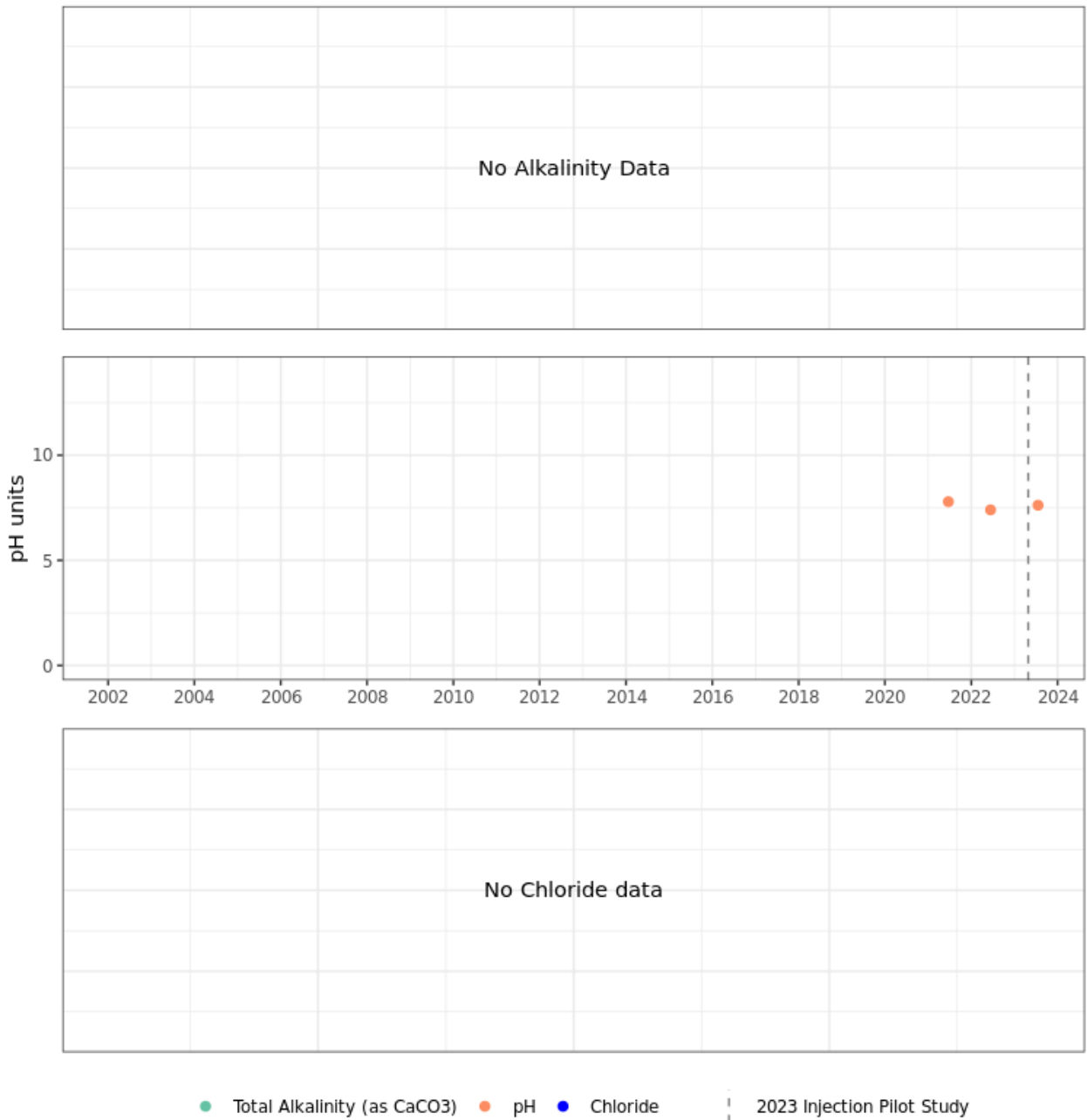
Chlorinated Ethene and Daughter Product Concentration

			No data				

RW-7200P

Water Quality

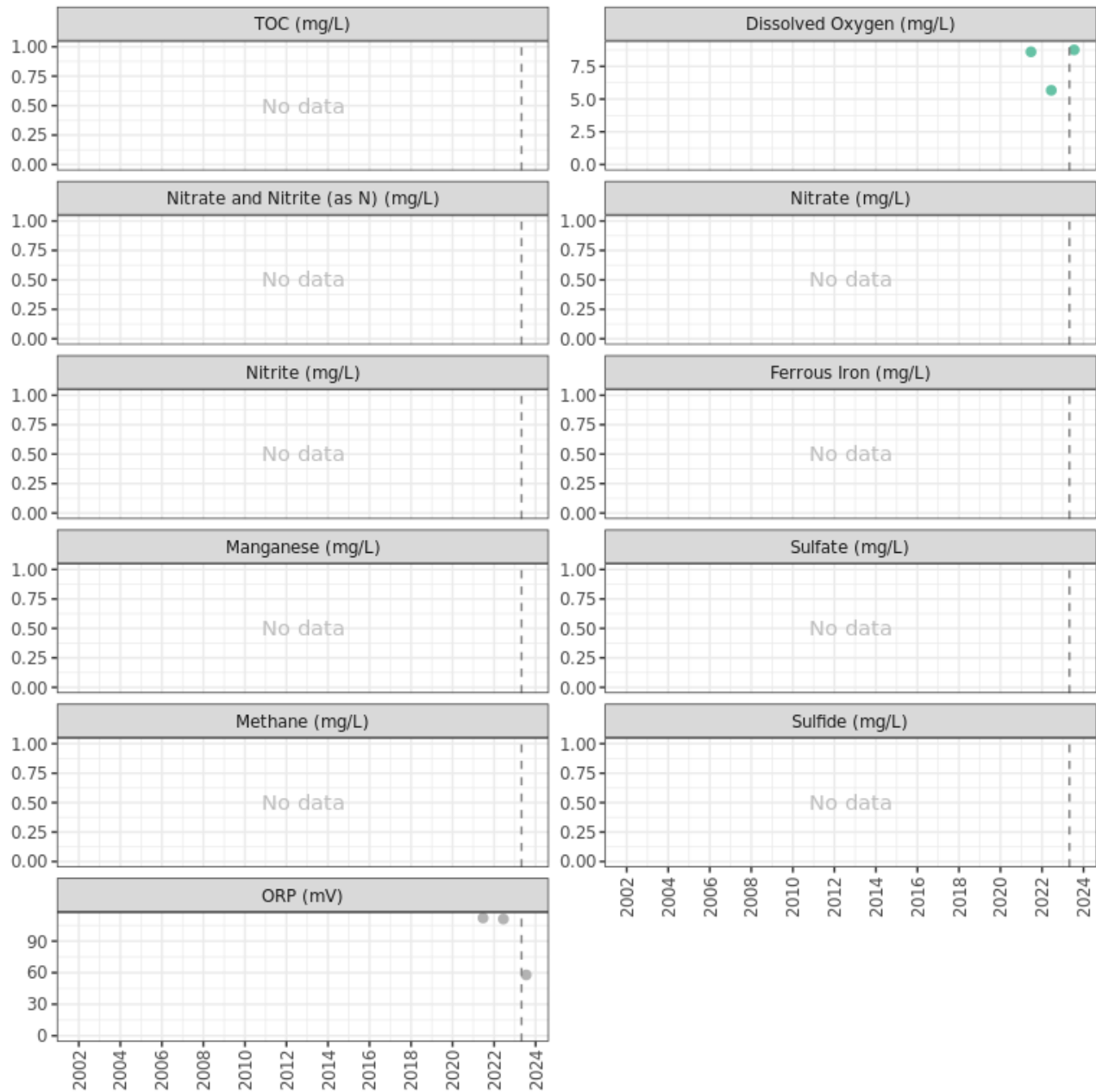
RW-7200P Water Quality Parameters



TOC and Redox Parameters

RW-7200P TOC and Redox Parameters

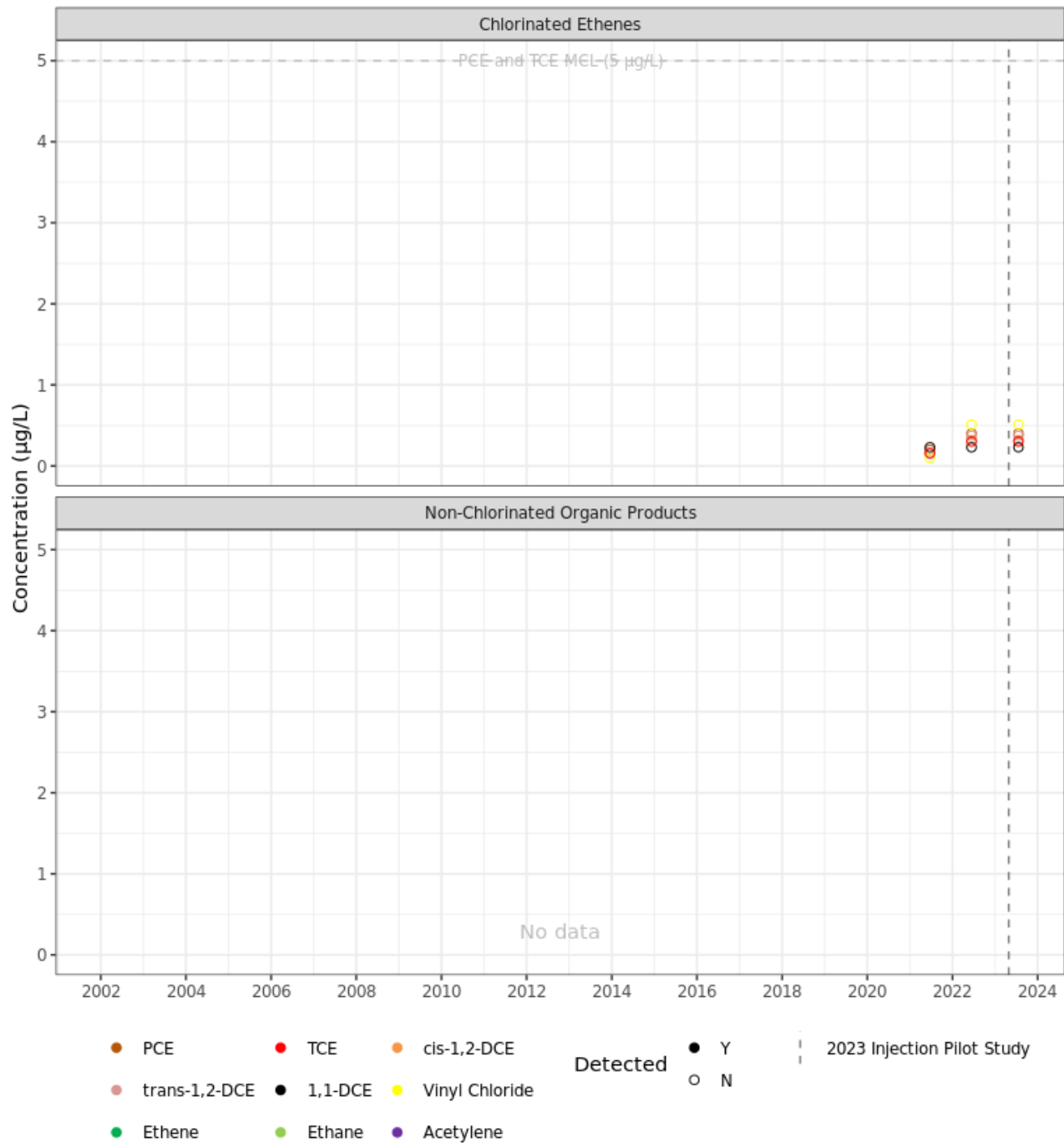
Mass Concentrations



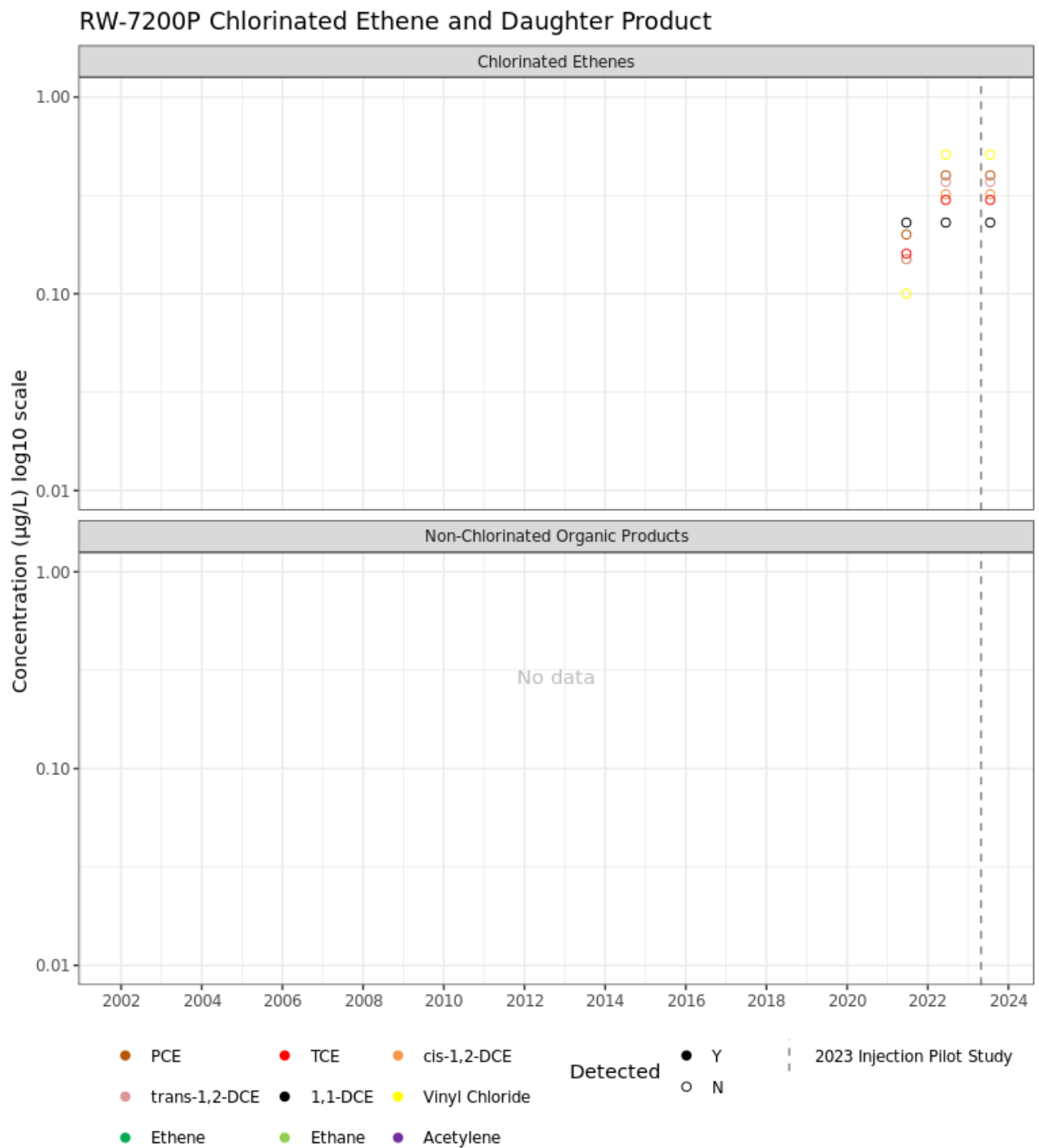
Detected ● Y | 2023 Injection Pilot Study

Chlorinated Ethene and Daughter Product Mass

RW-7200P Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Mass (log10)



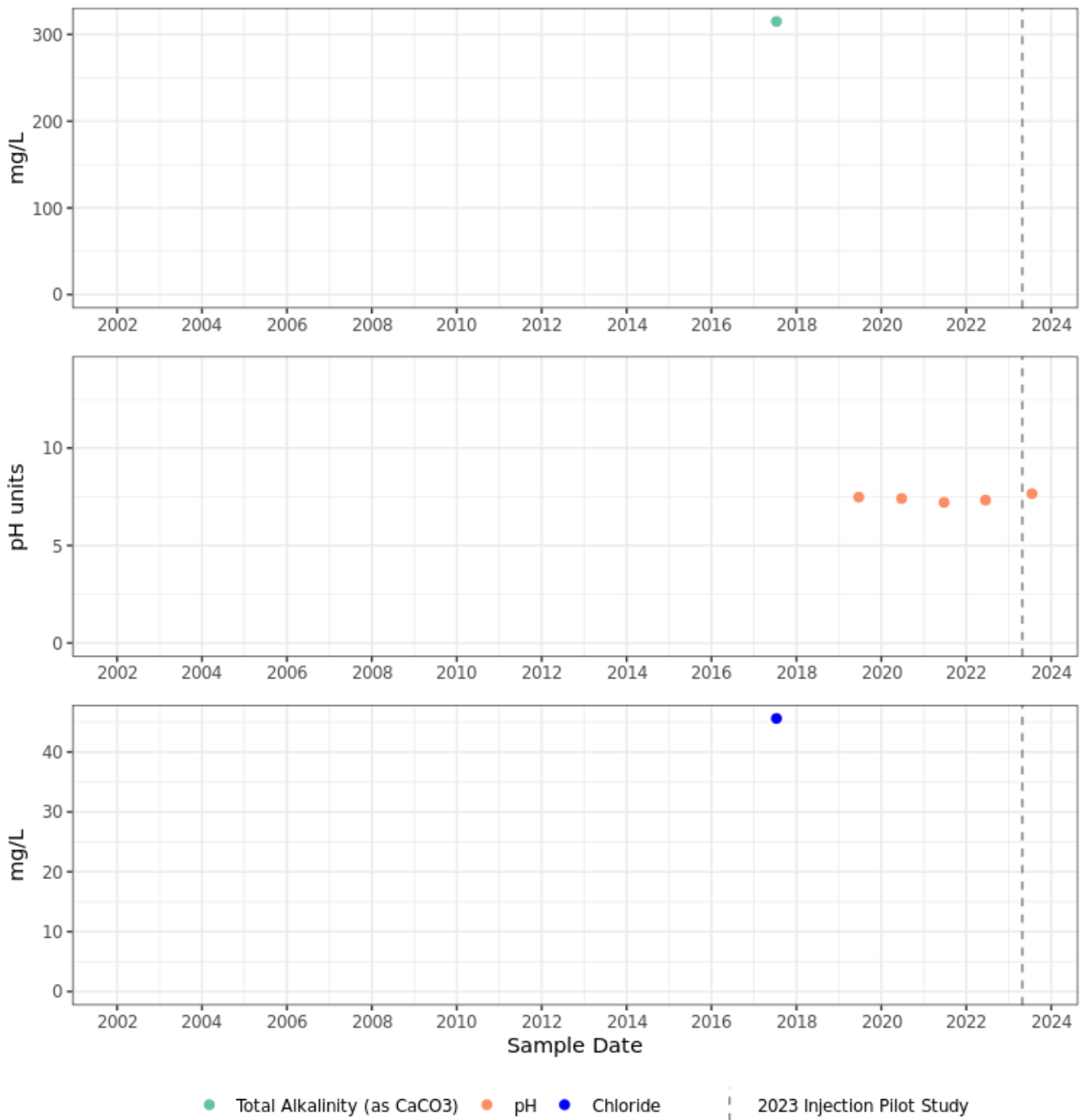
Chlorinated Ethene and Daughter Product Concentration

			No data				

RW-7505P

Water Quality

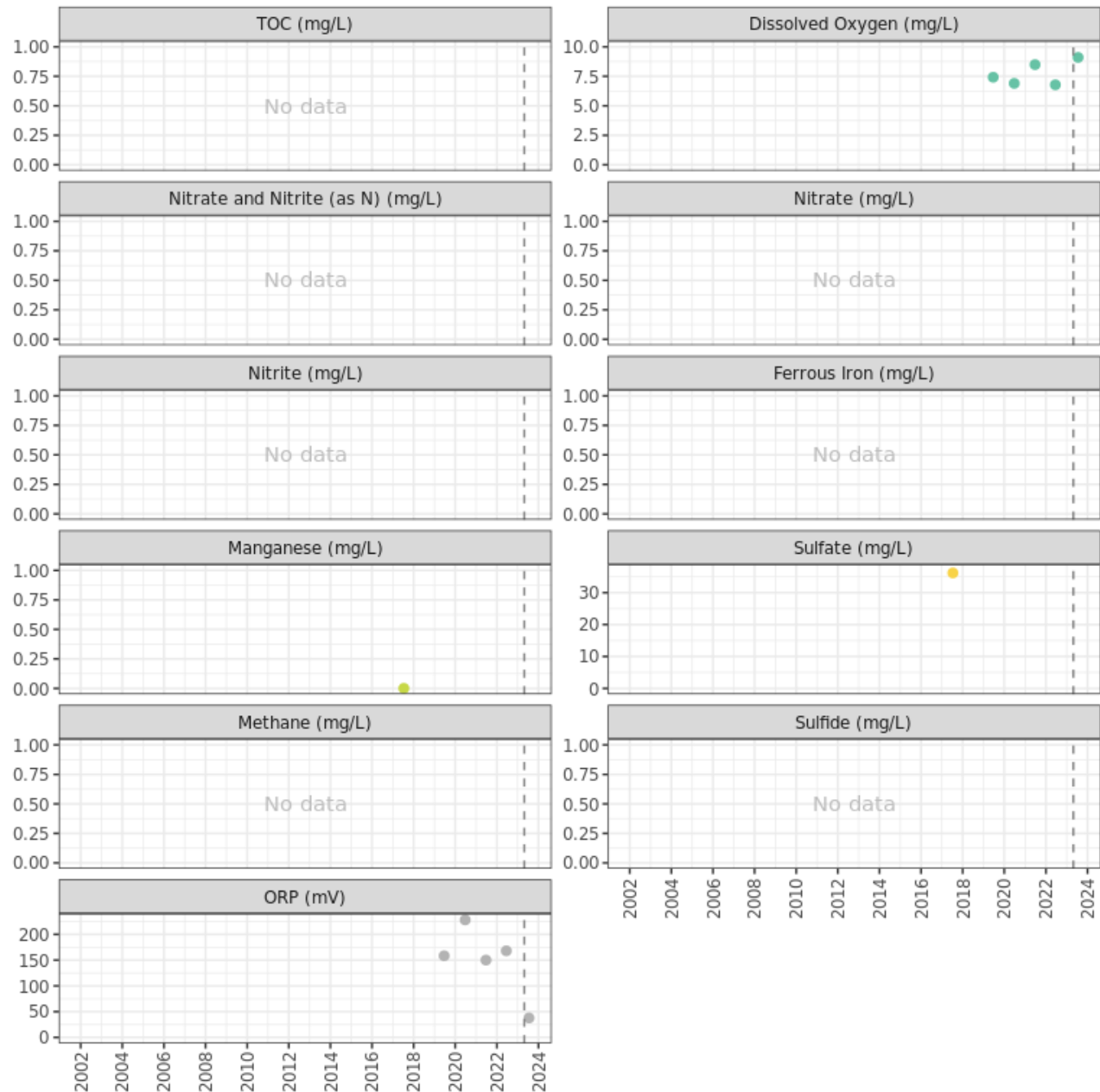
RW-7505P Water Quality Parameters



TOC and Redox Parameters

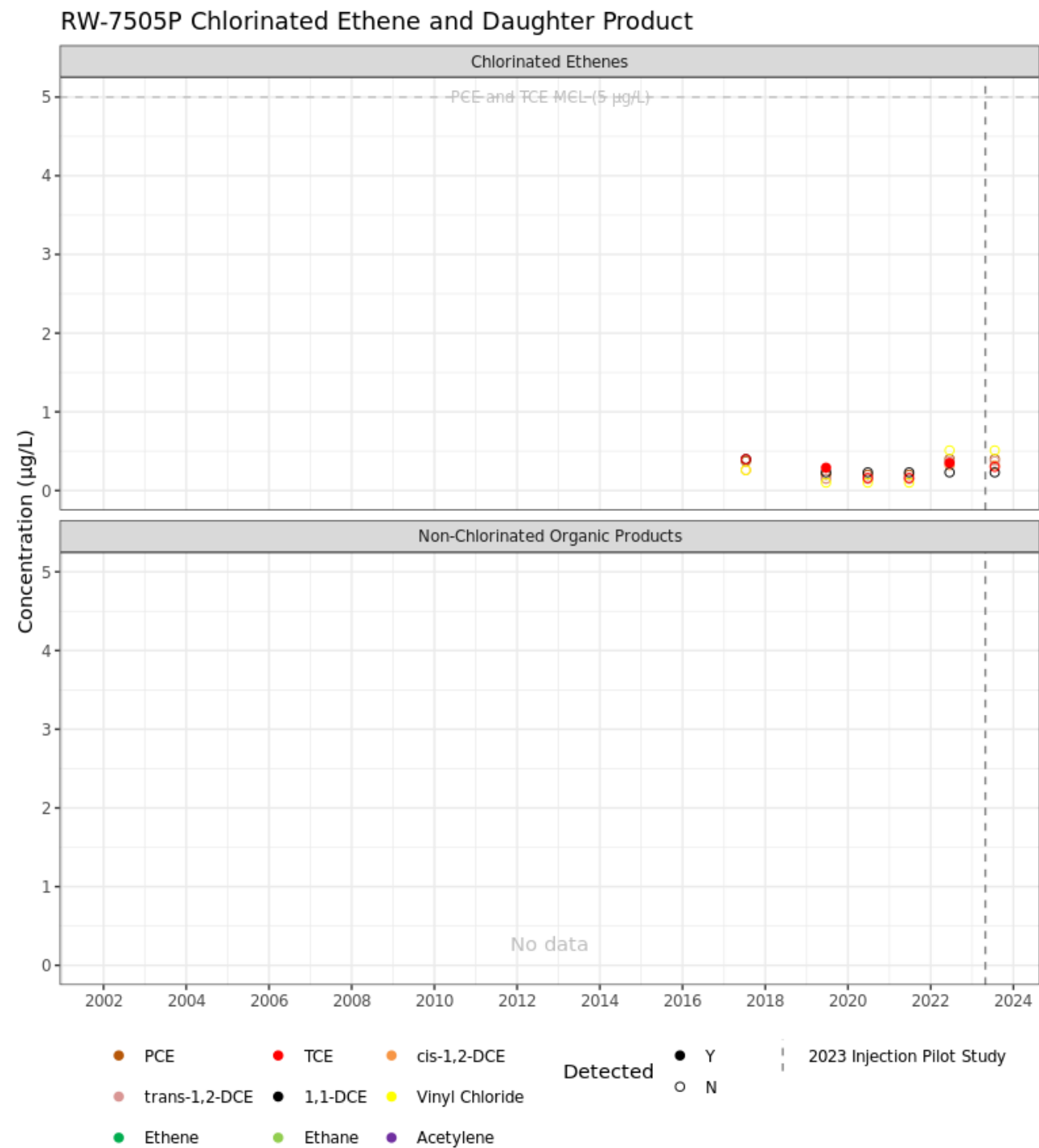
RW-7505P TOC and Redox Parameters

Mass Concentrations

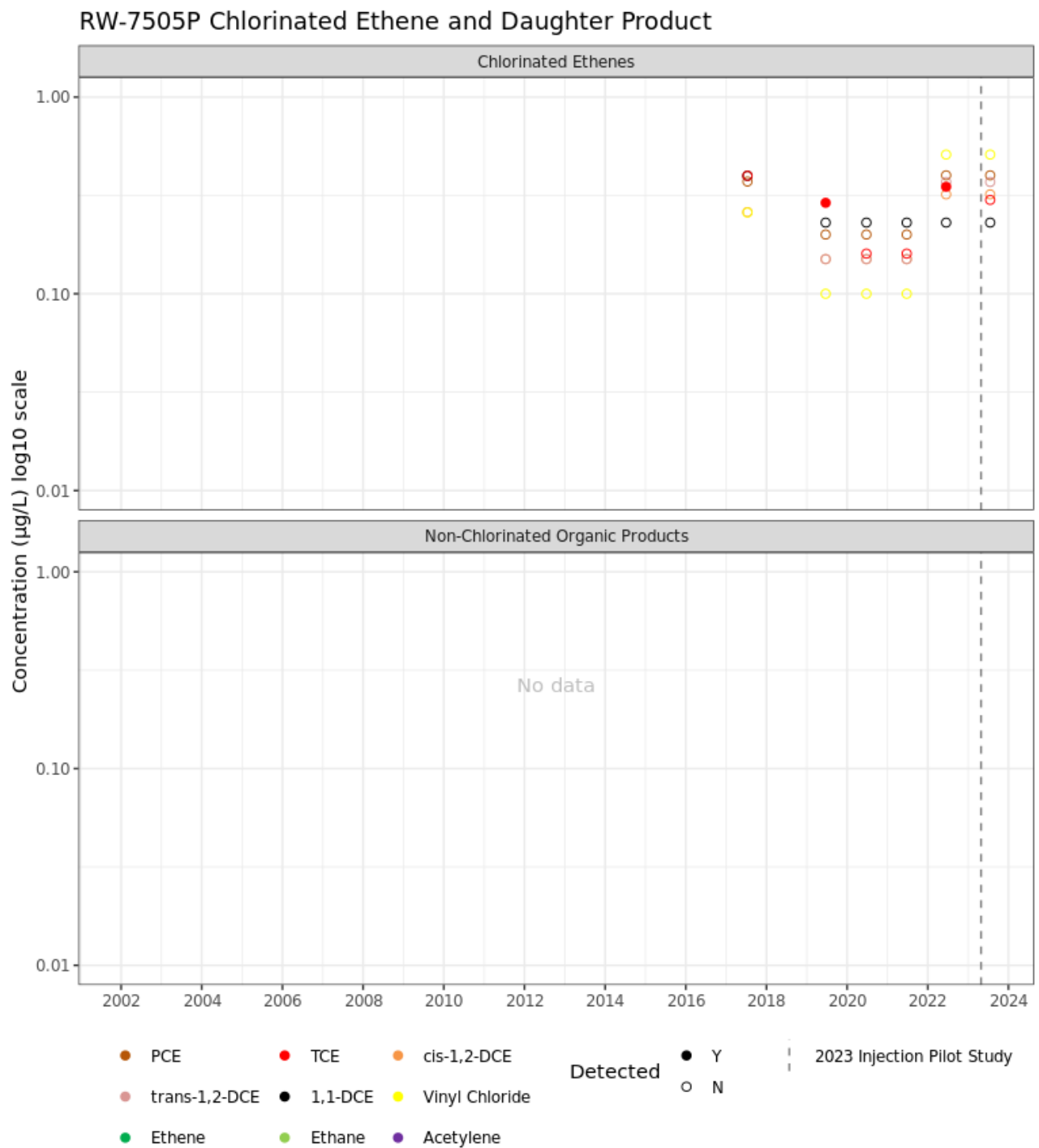


Detected ● Y 2023 Injection Pilot Study

Chlorinated Ethene and Daughter Product Mass

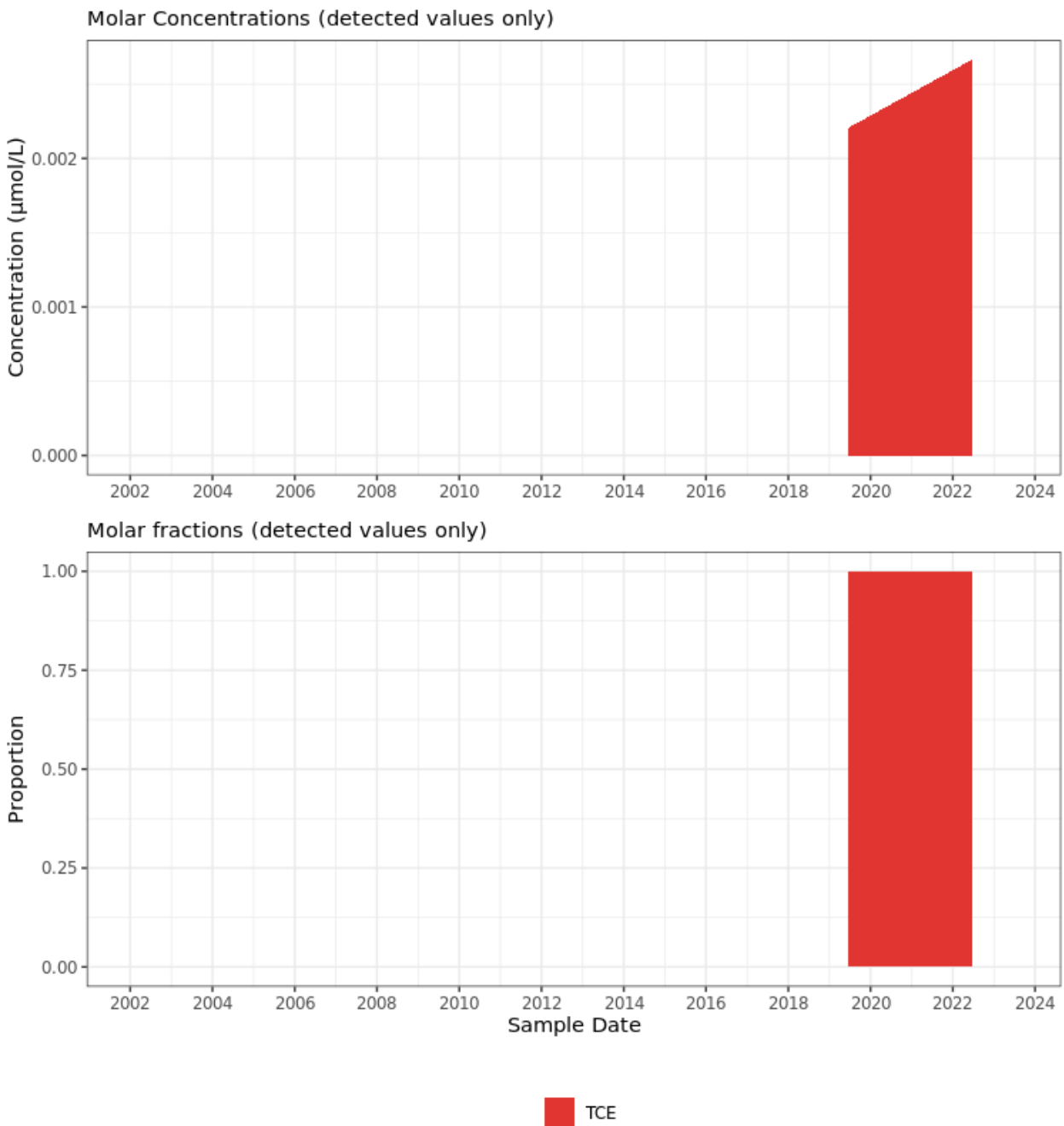


Chlorinated Ethene and Daughter Product Mass (log10)



Chlorinated Ethene and Daughter Product Concentration

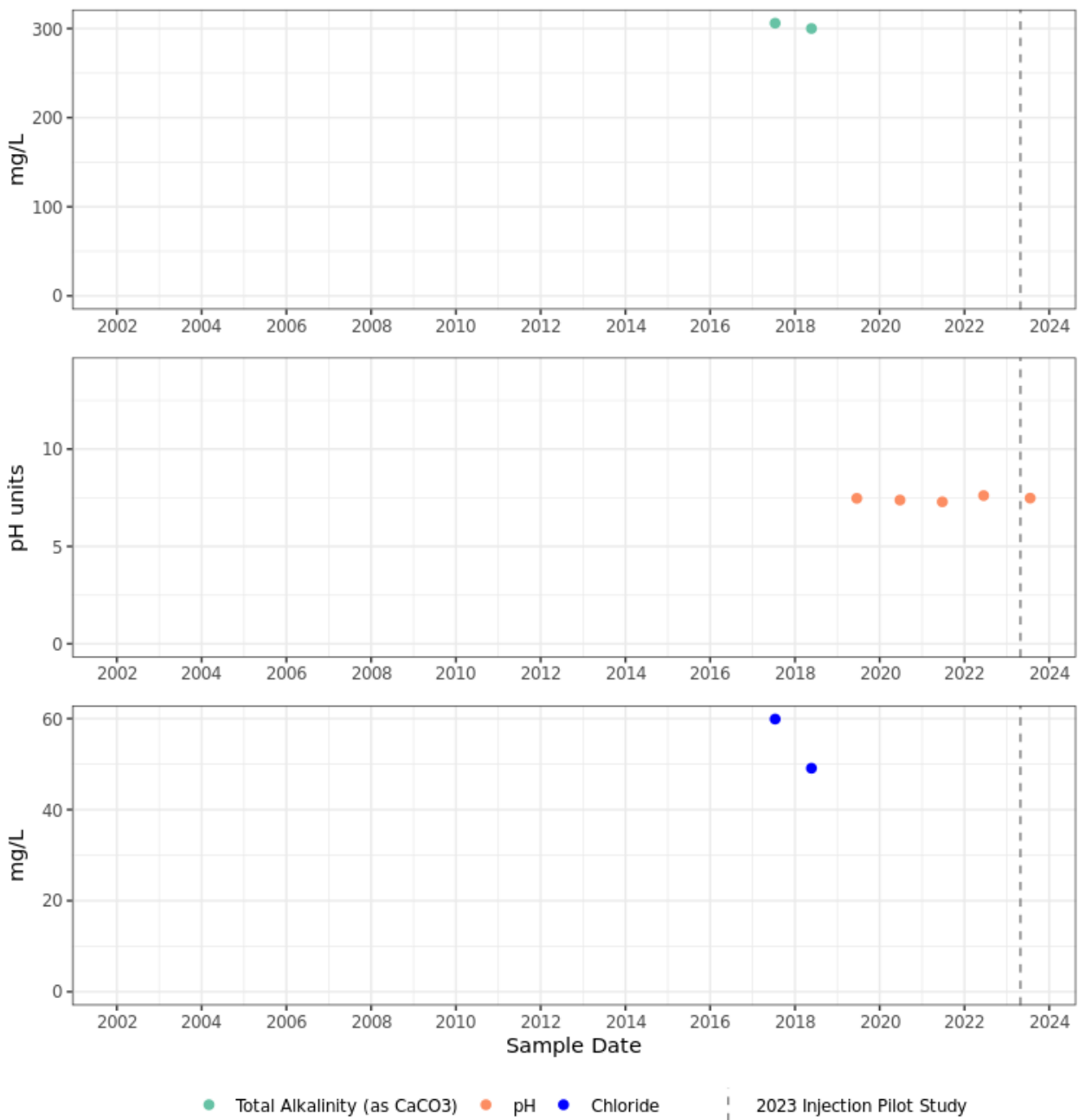
RW-7505P Chlorinated Ethene and Daughter Product



RW-7549P

Water Quality

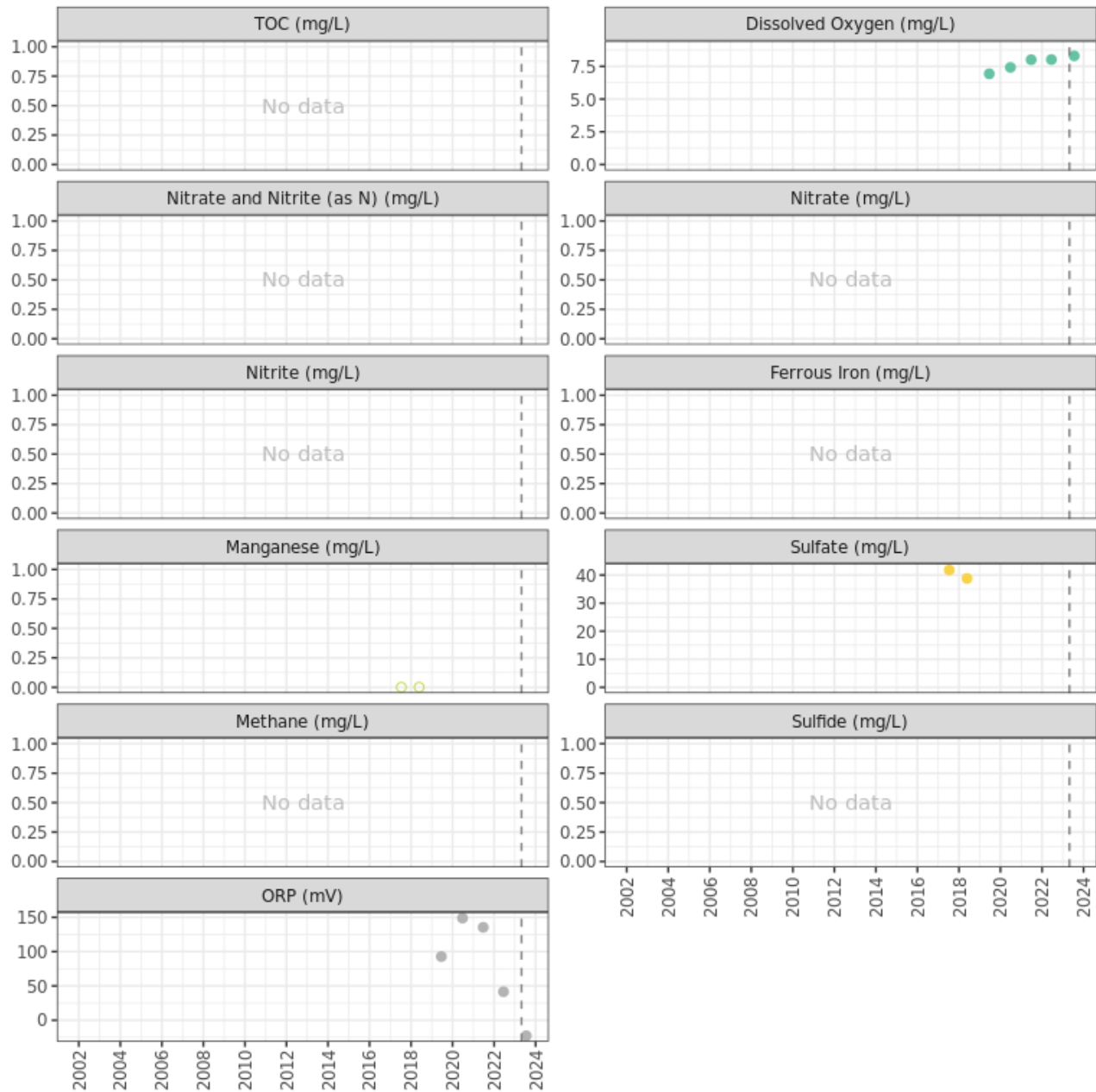
RW-7549P Water Quality Parameters



TOC and Redox Parameters

RW-7549P TOC and Redox Parameters

Mass Concentrations

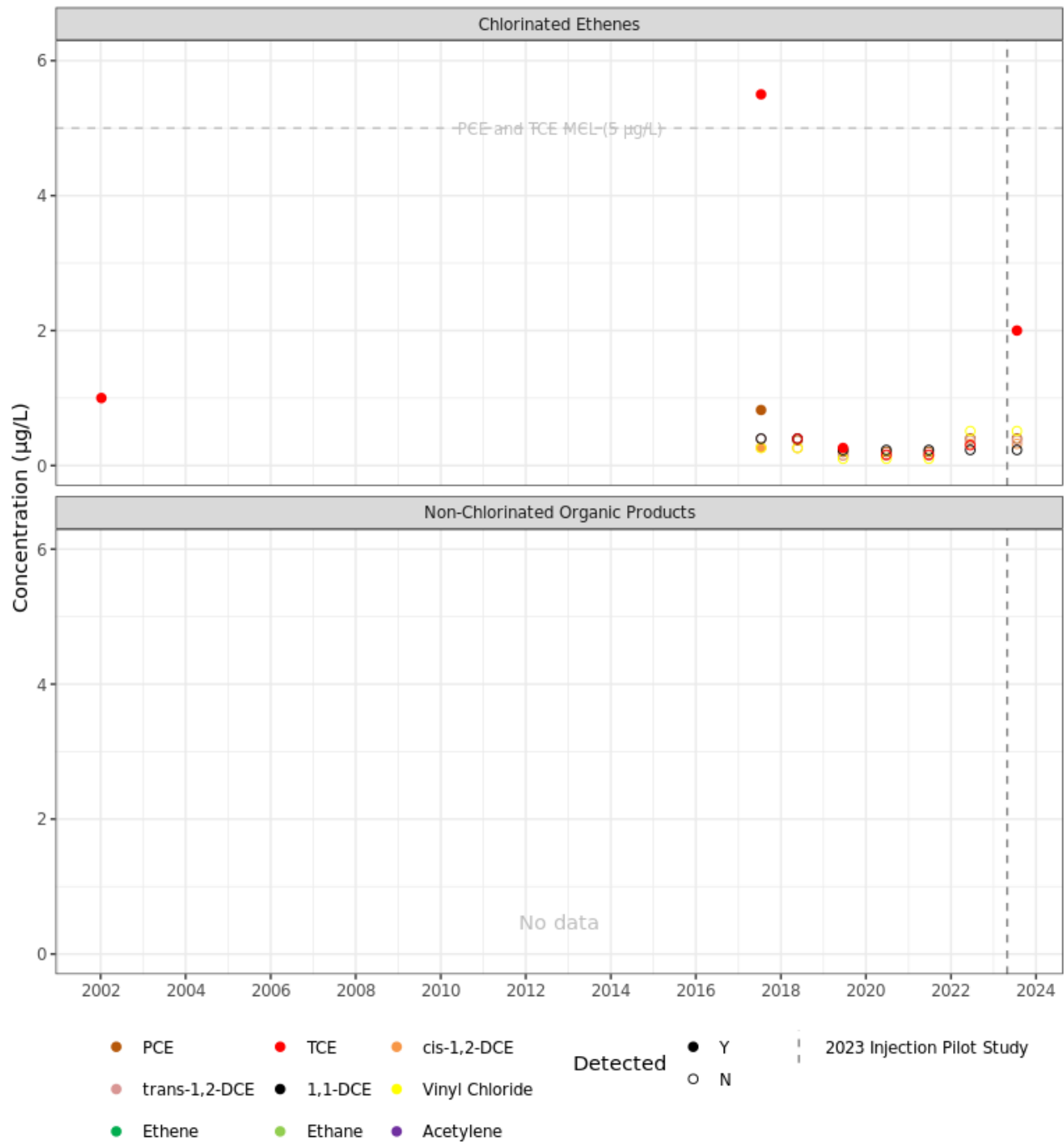


Detected ● Y ○ N

2023 Injection Pilot Study

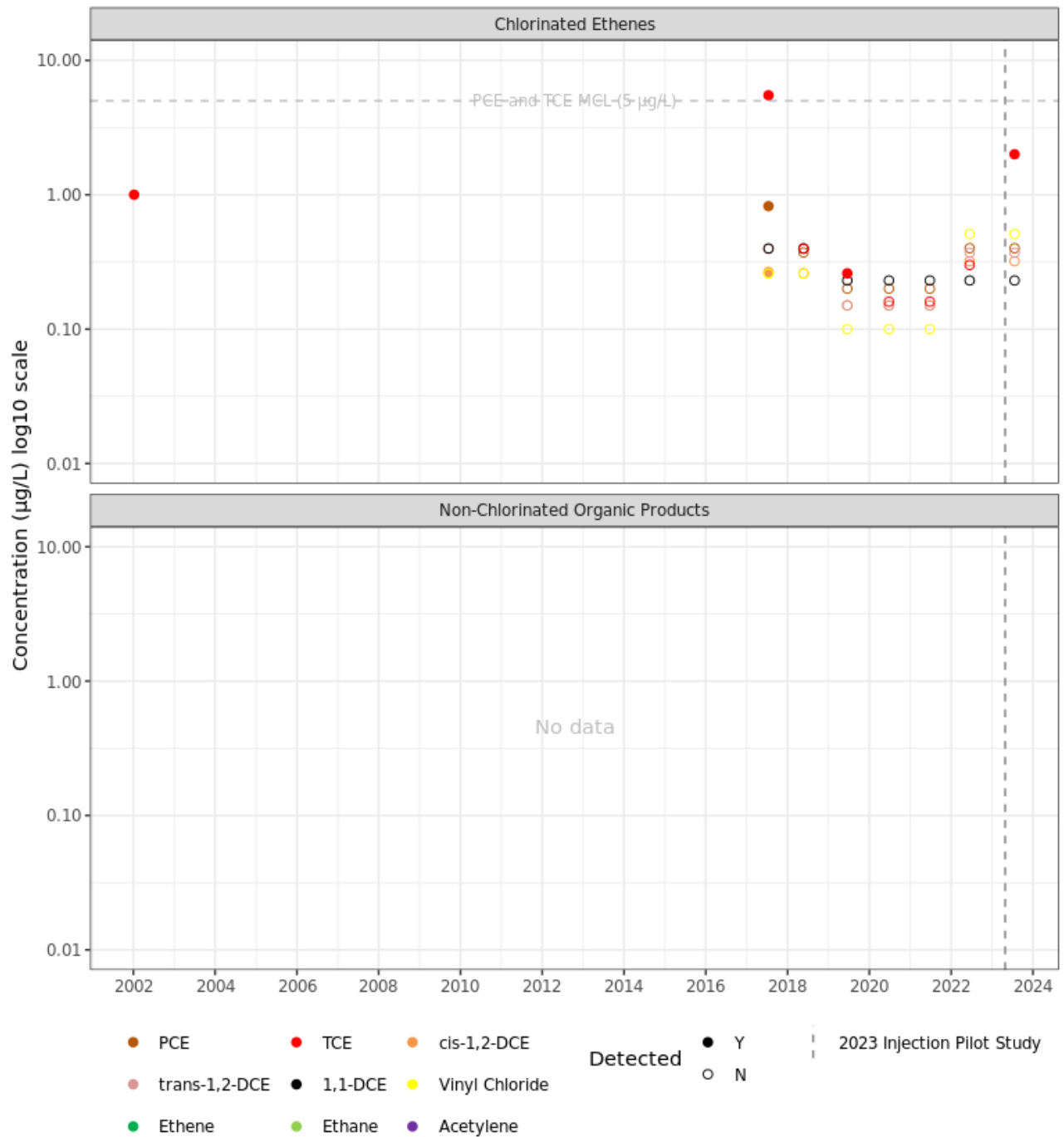
Chlorinated Ethene and Daughter Product Mass

RW-7549P Chlorinated Ethene and Daughter Product



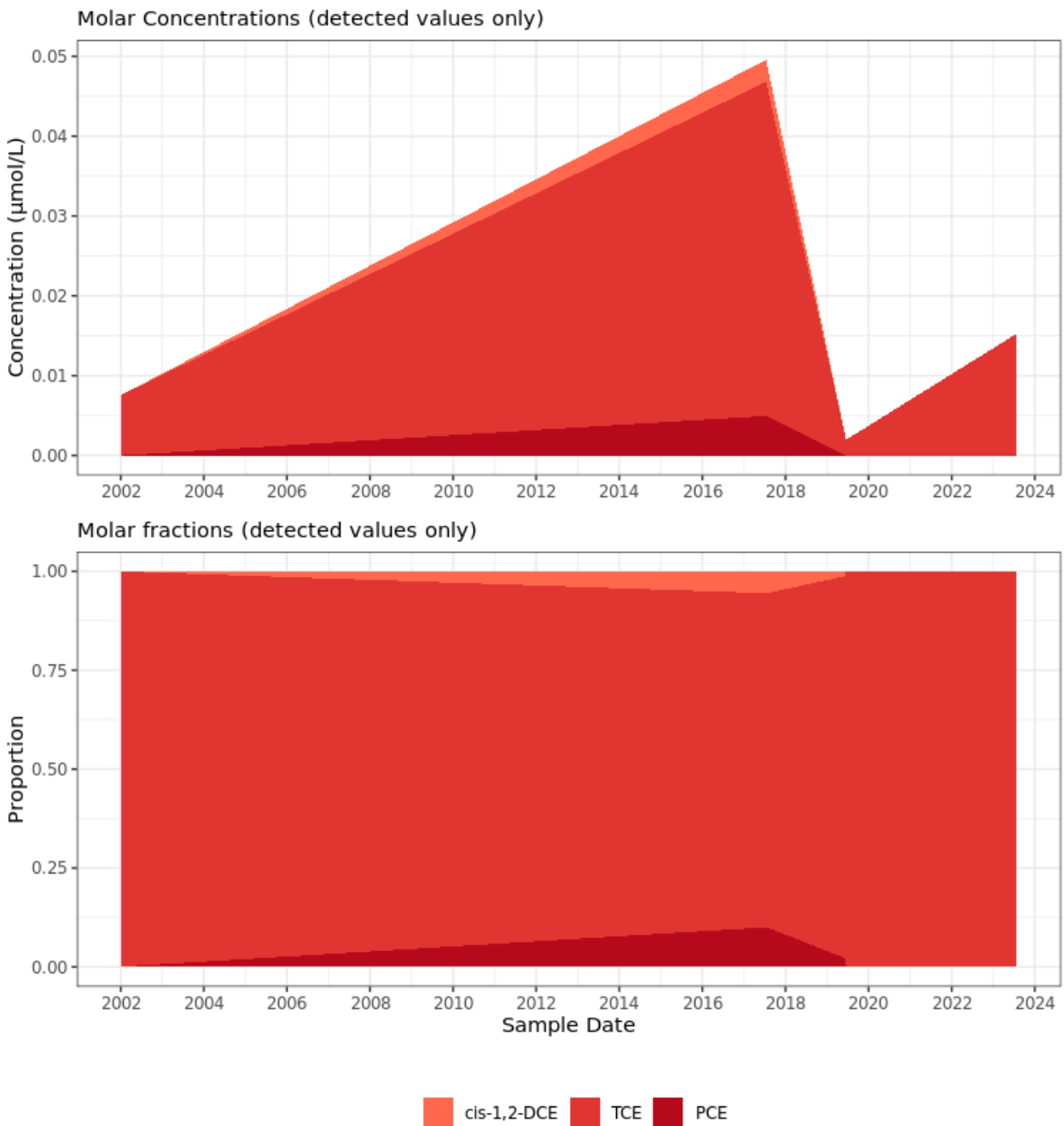
Chlorinated Ethene and Daughter Product Mass (log10)

RW-7549P Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

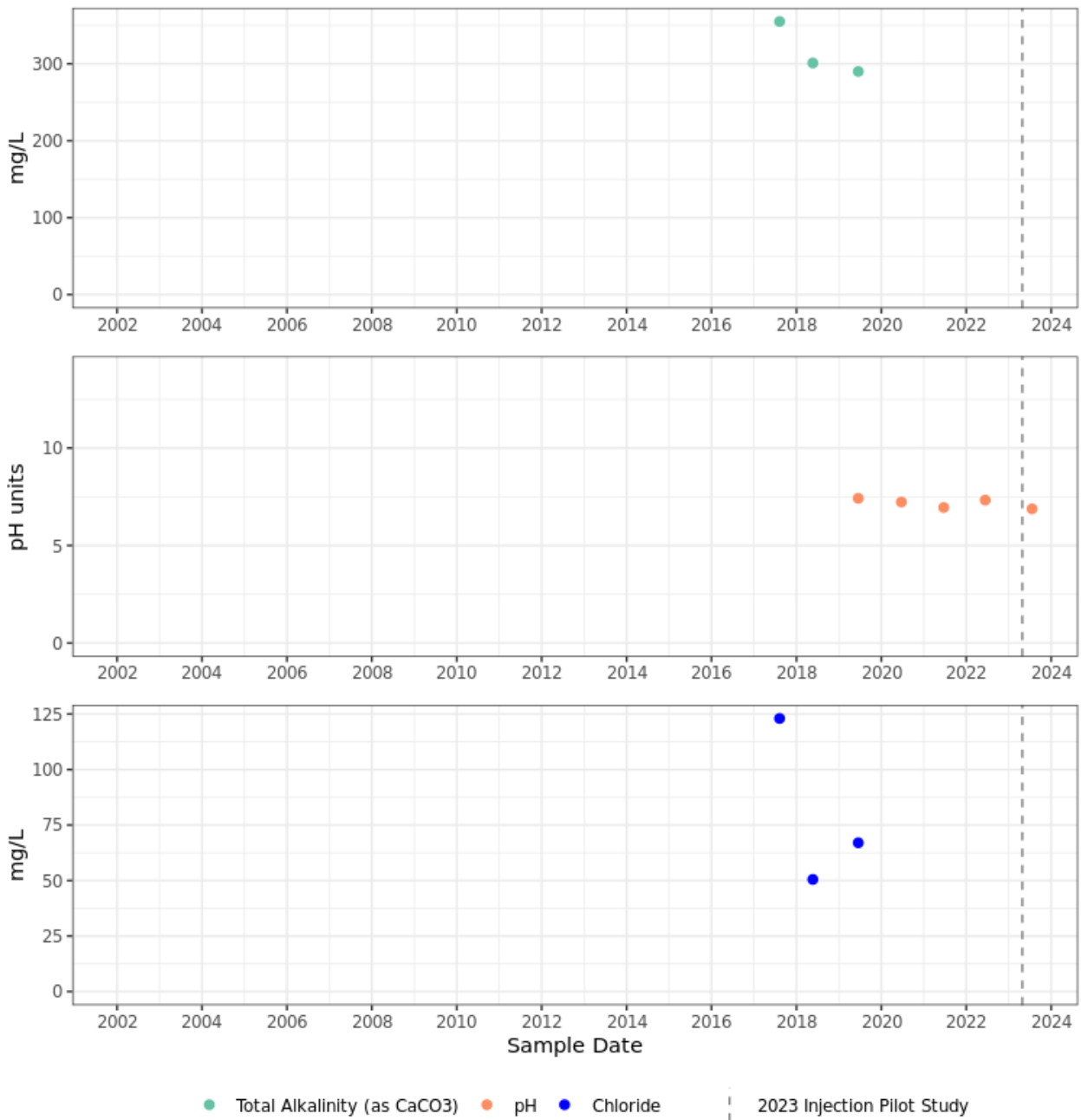
RW-7549P Chlorinated Ethene and Daughter Product



RW-7677P

Water Quality

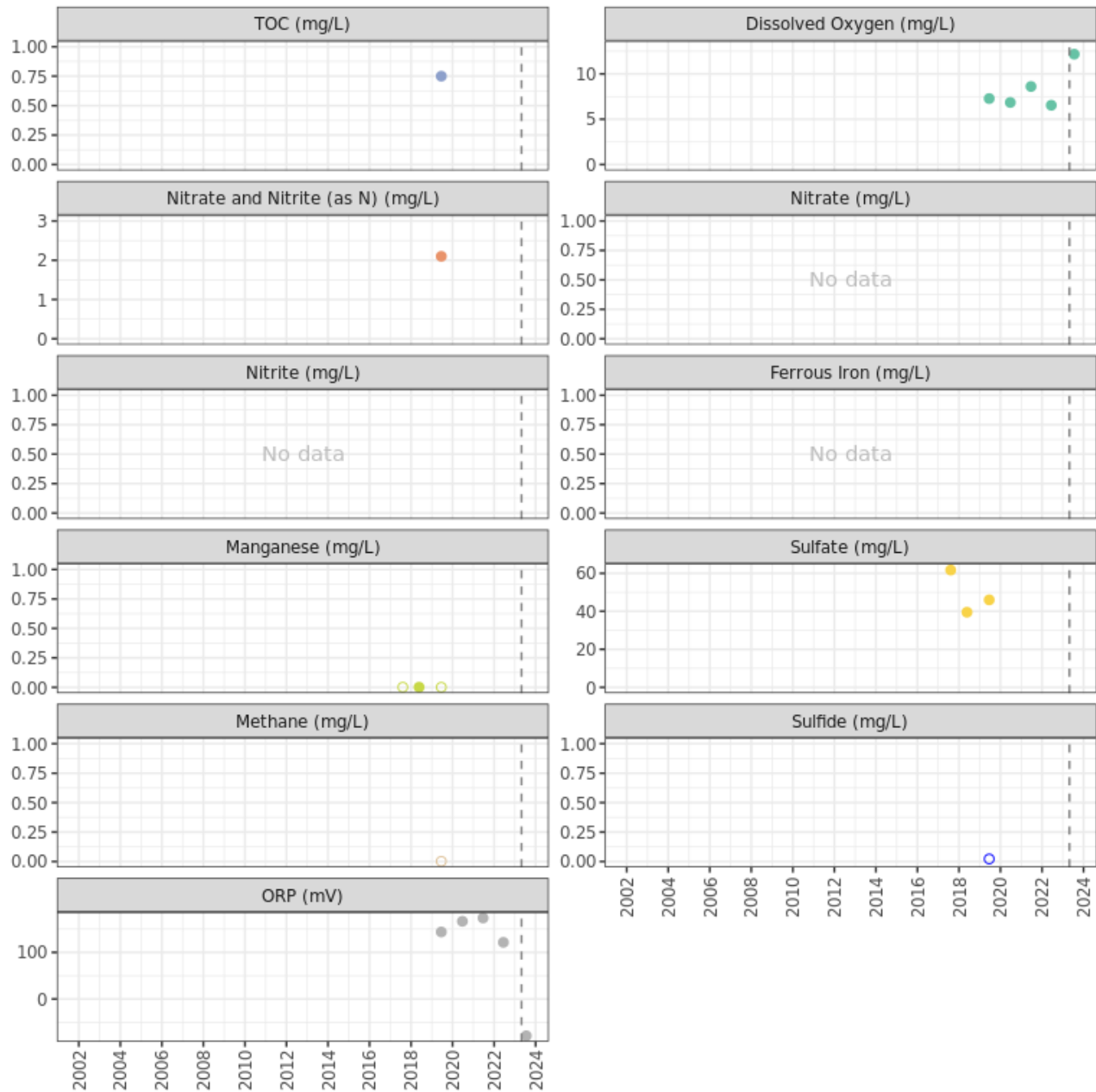
RW-7677P Water Quality Parameters



TOC and Redox Parameters

RW-7677P TOC and Redox Parameters

Mass Concentrations

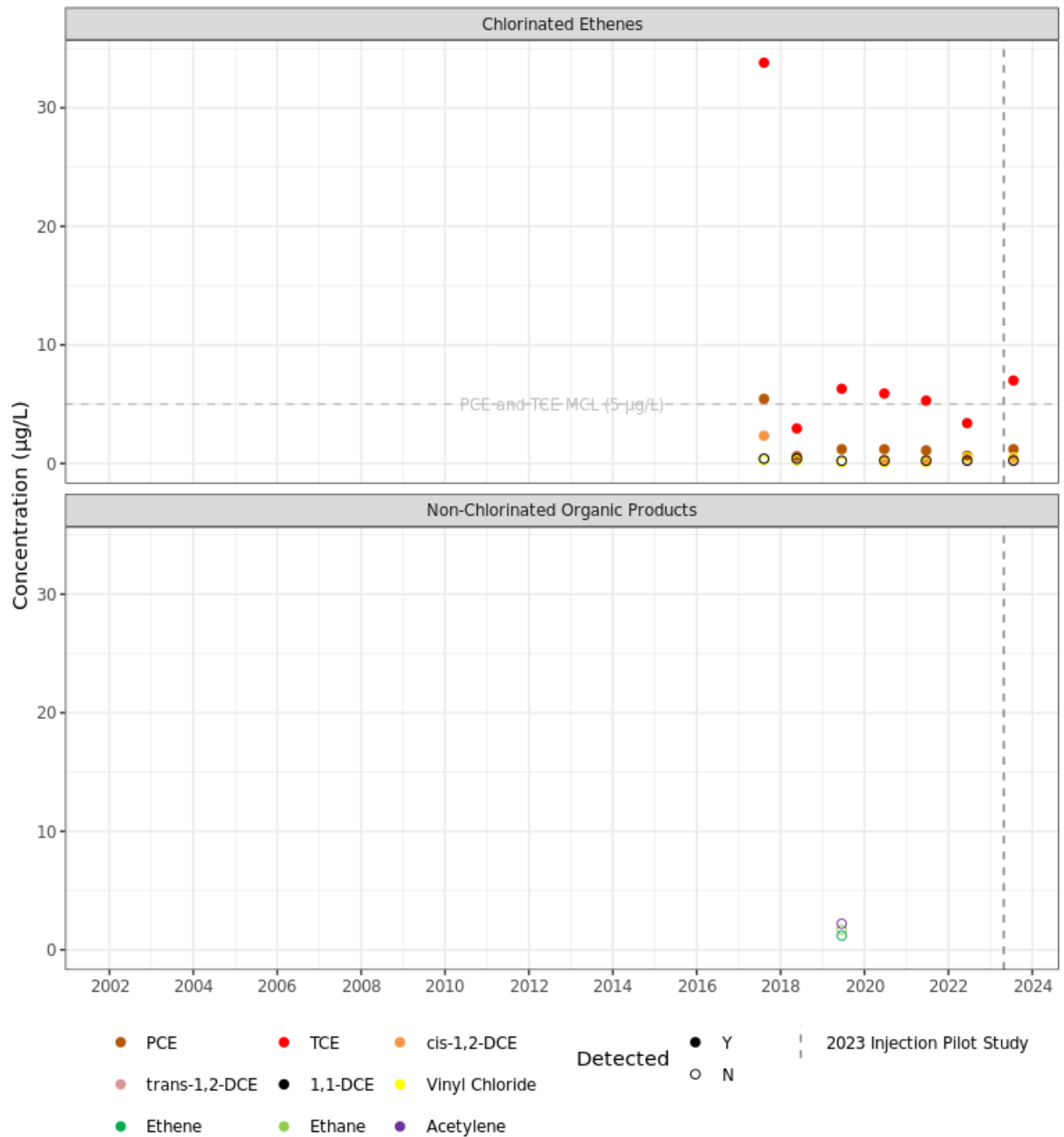


Detected ● Y ○ N

2023 Injection Pilot Study

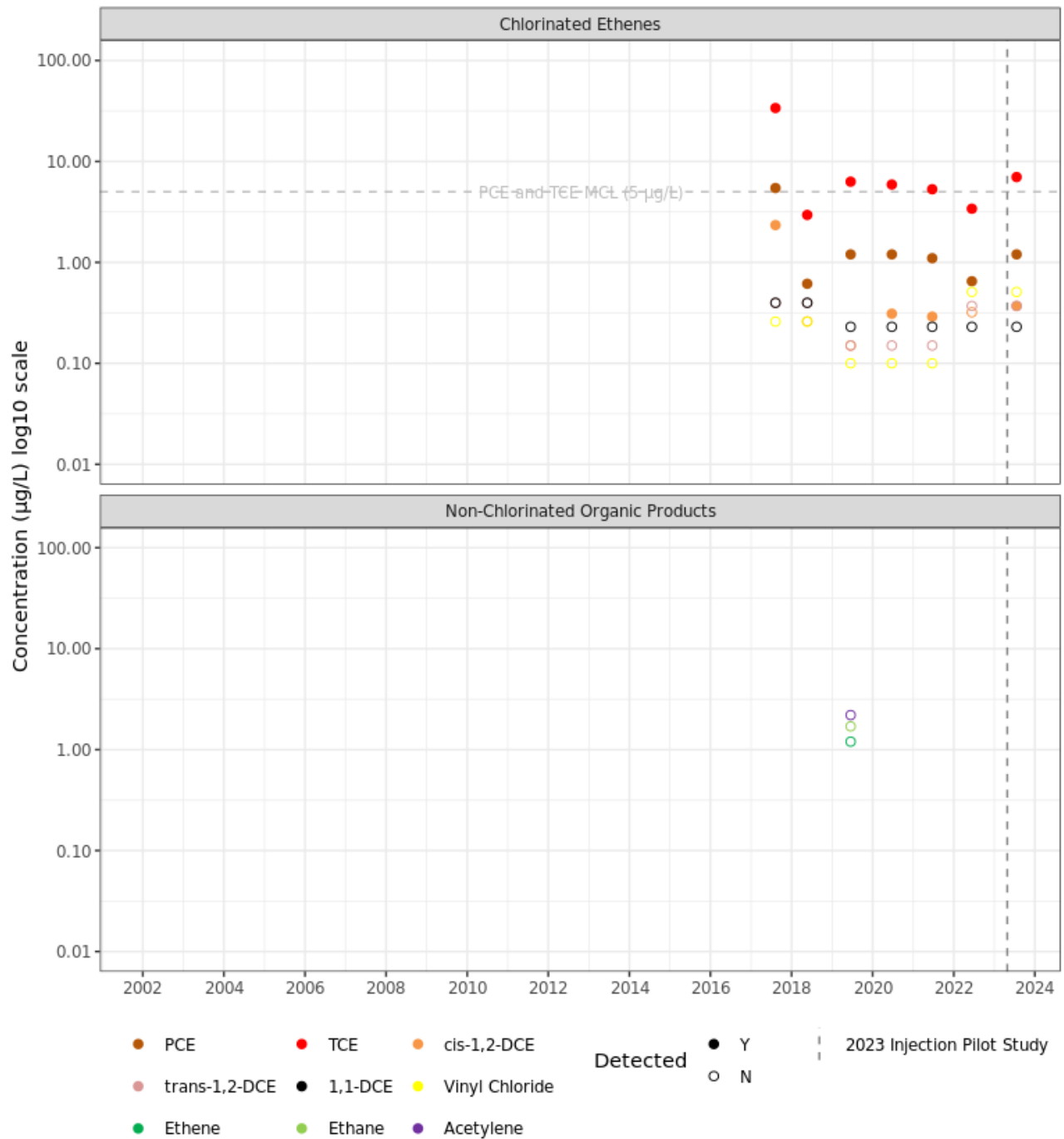
Chlorinated Ethene and Daughter Product Mass

RW-7677P Chlorinated Ethene and Daughter Product



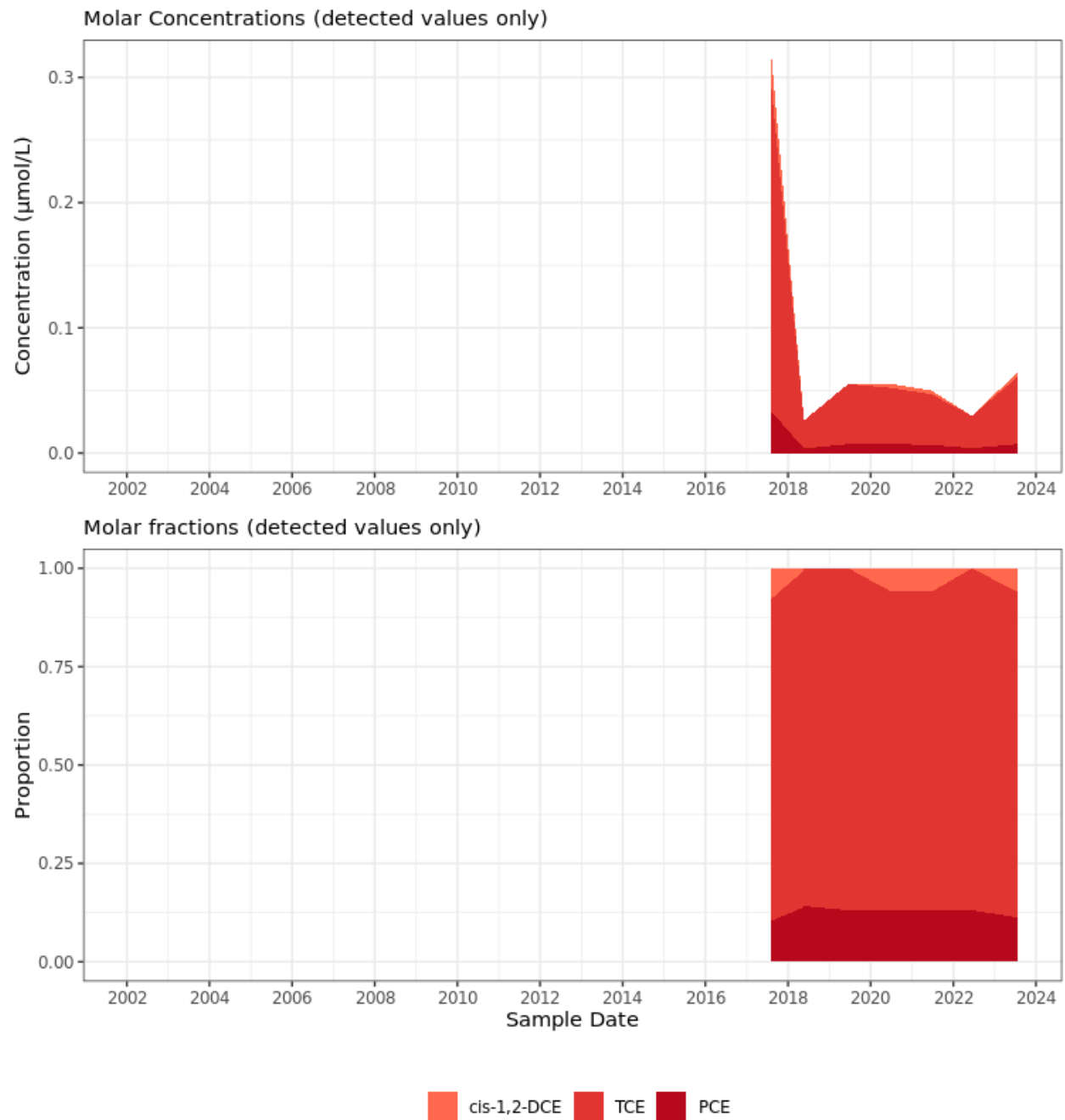
Chlorinated Ethene and Daughter Product Mass (log10)

RW-7677P Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

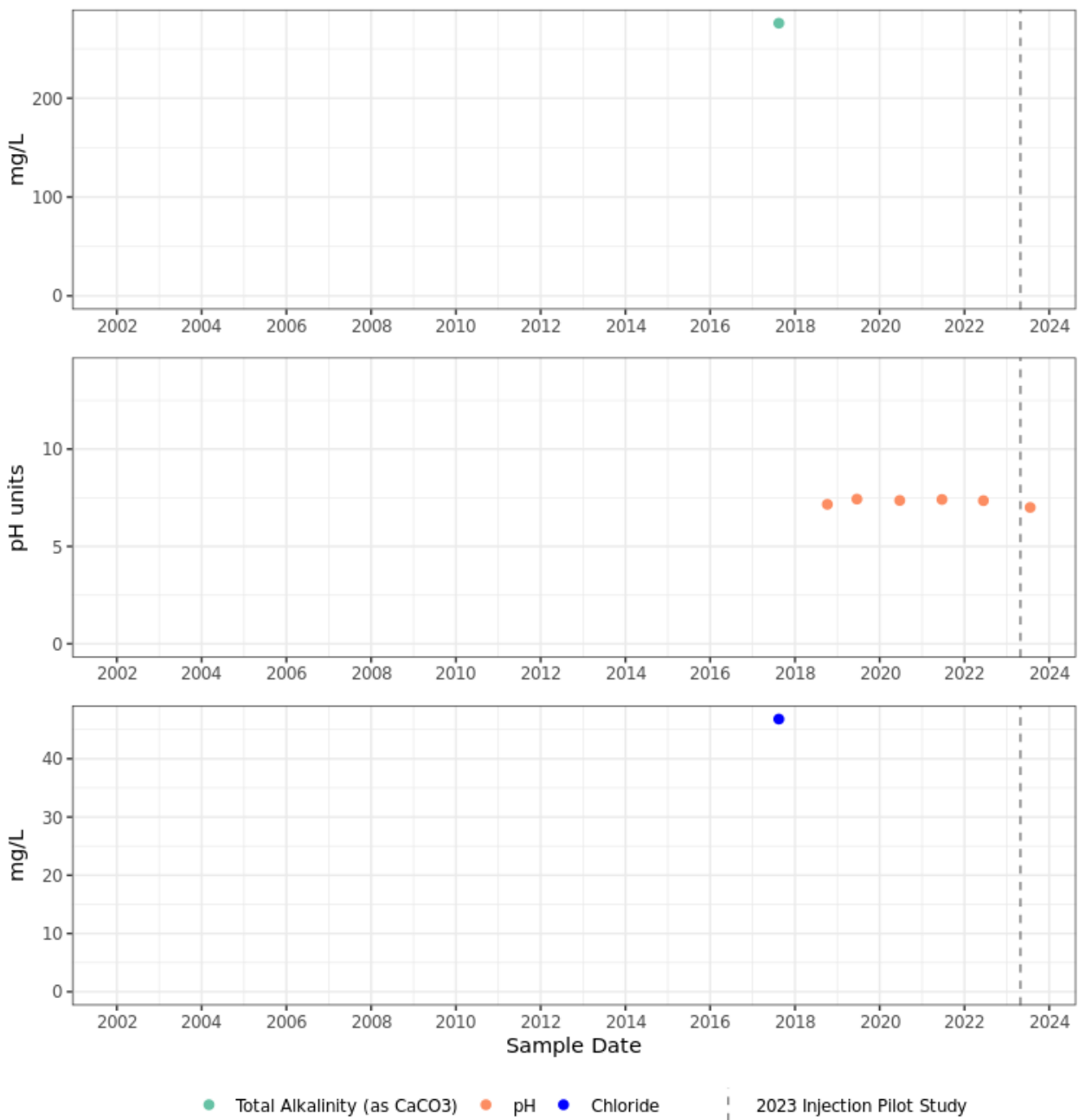
RW-7677P Chlorinated Ethene and Daughter Product



RW-7773P

Water Quality

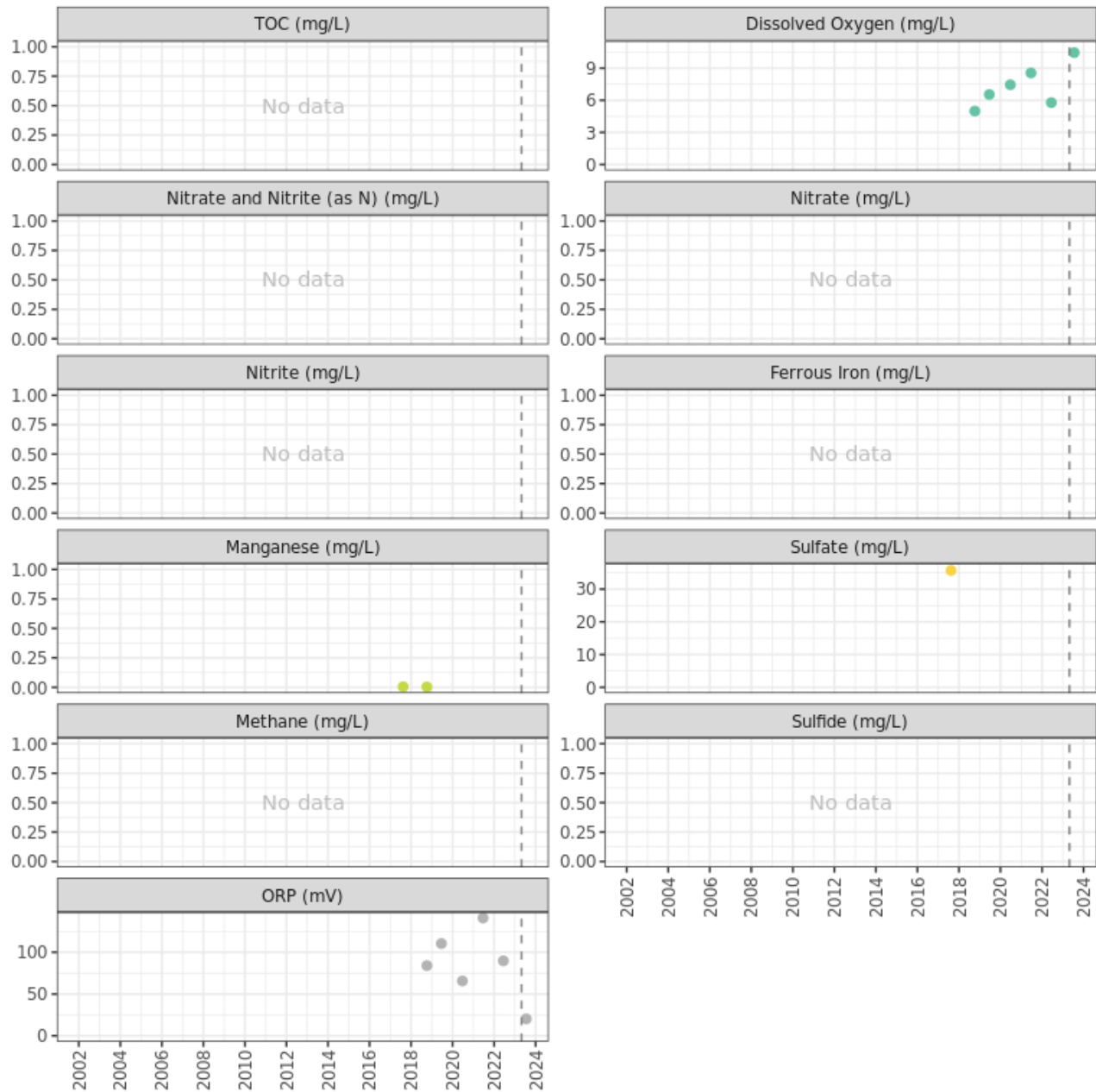
RW-7773P Water Quality Parameters



TOC and Redox Parameters

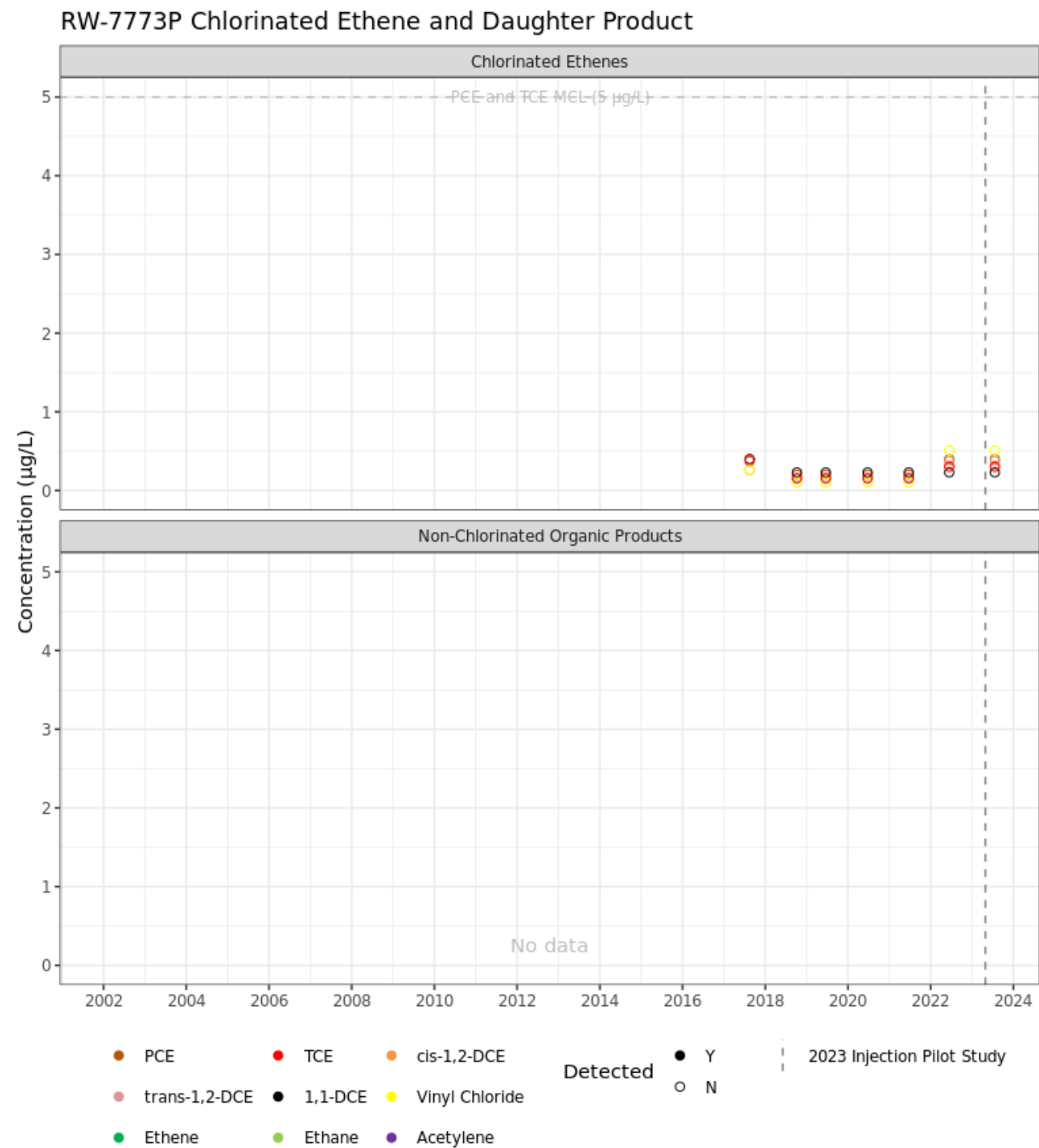
RW-7773P TOC and Redox Parameters

Mass Concentrations

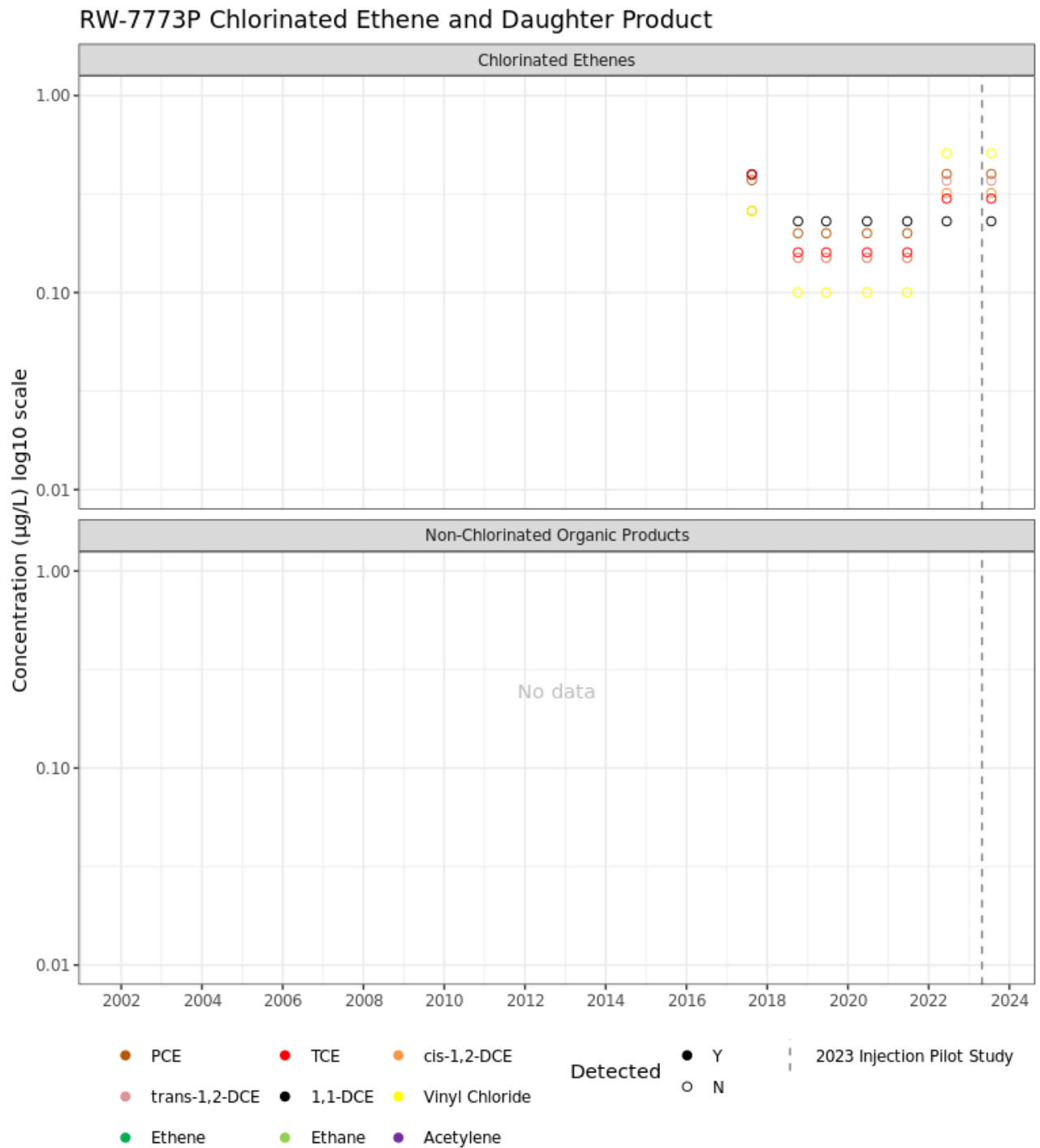


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Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)



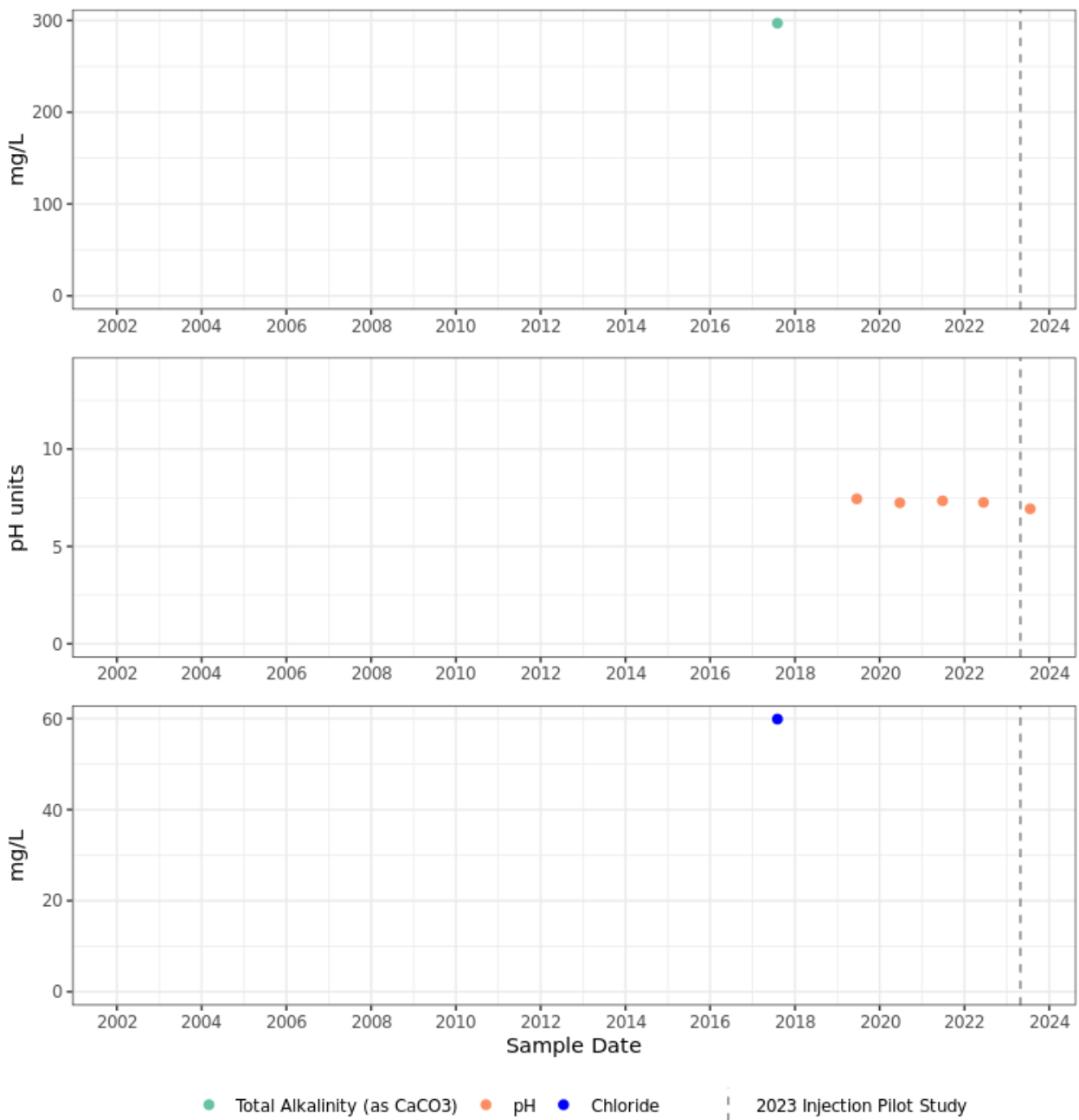
Chlorinated Ethene and Daughter Product Concentration

			No data				

RW-8012P

Water Quality

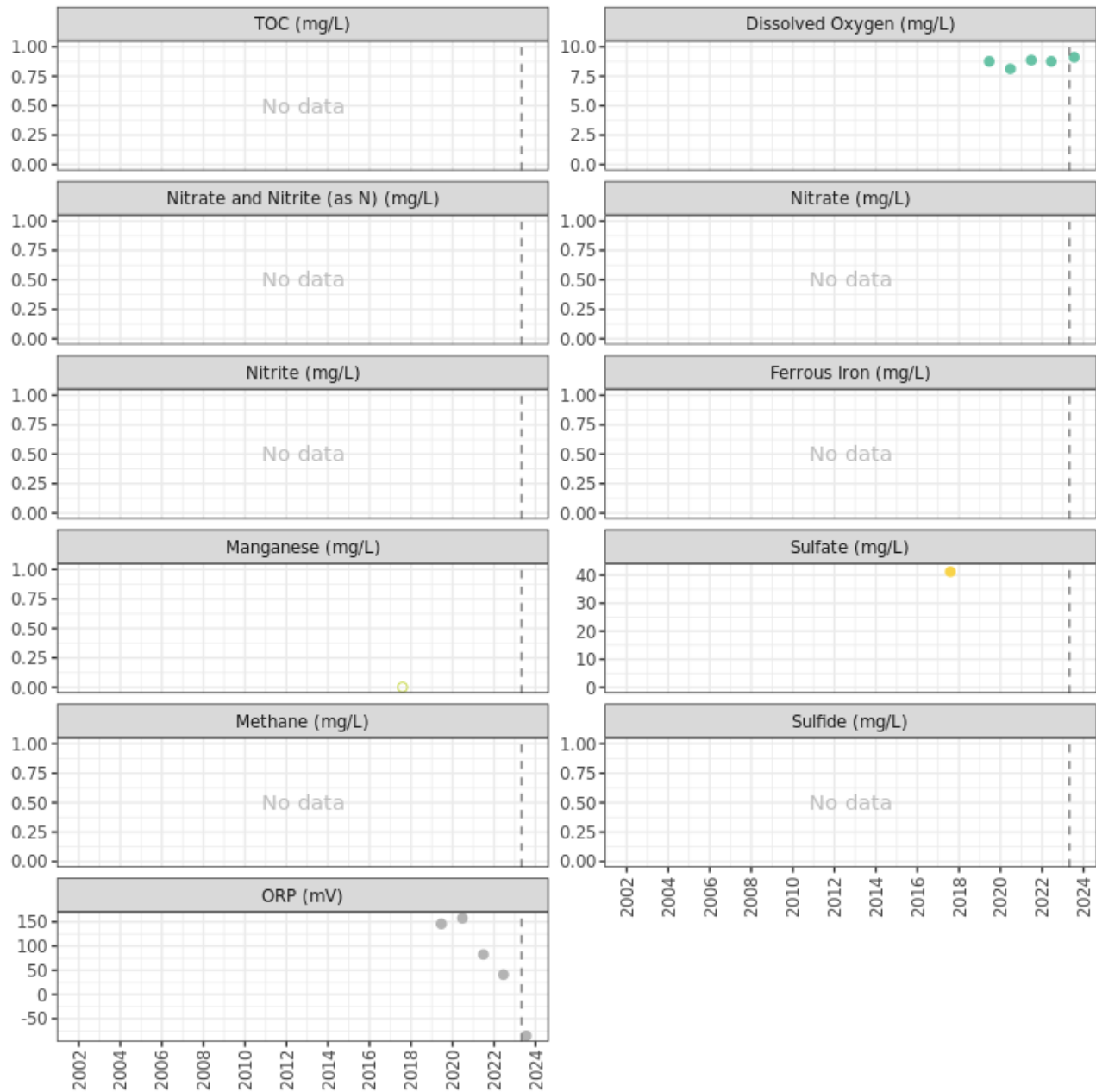
RW-8012P Water Quality Parameters



TOC and Redox Parameters

RW-8012P TOC and Redox Parameters

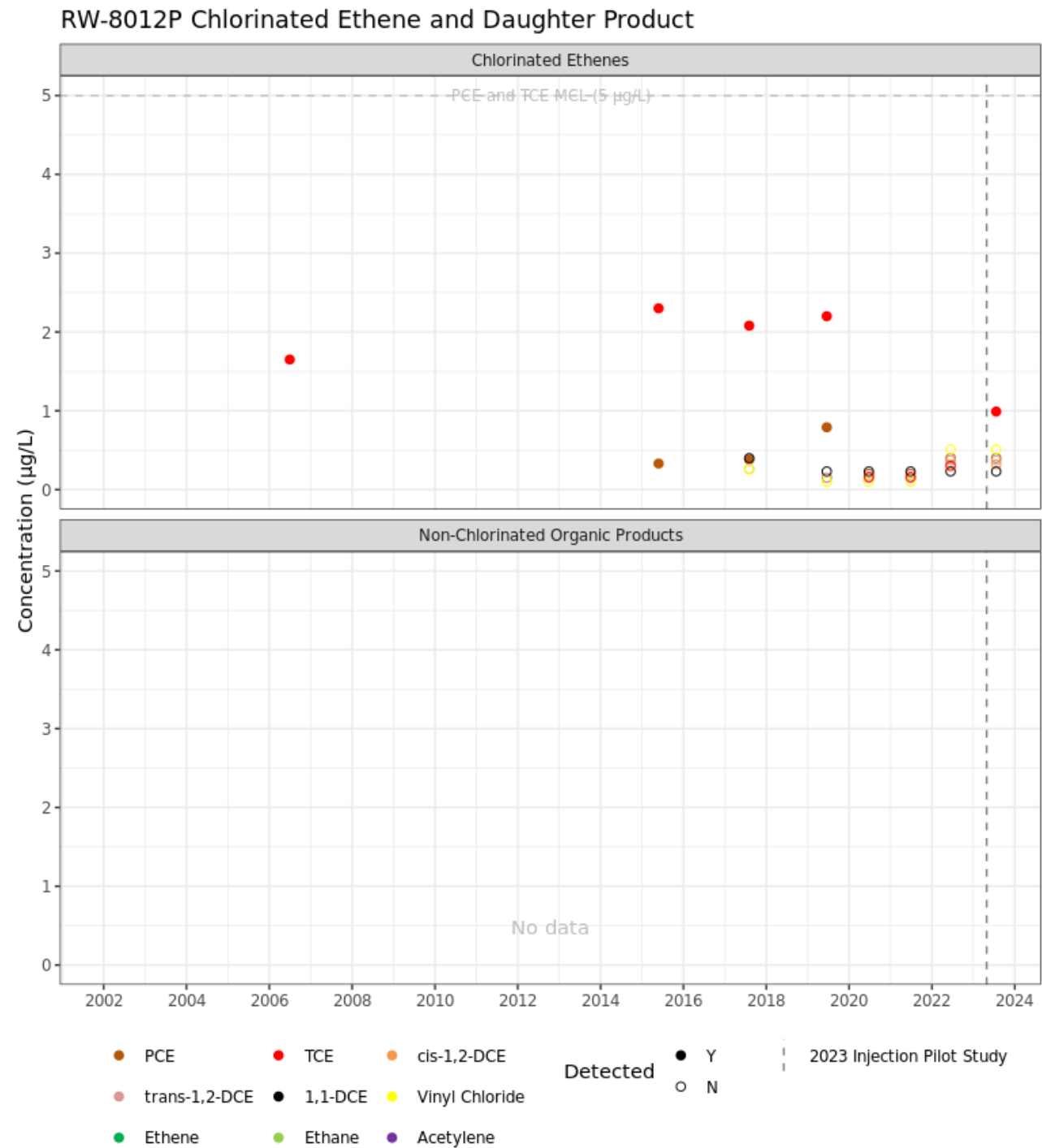
Mass Concentrations



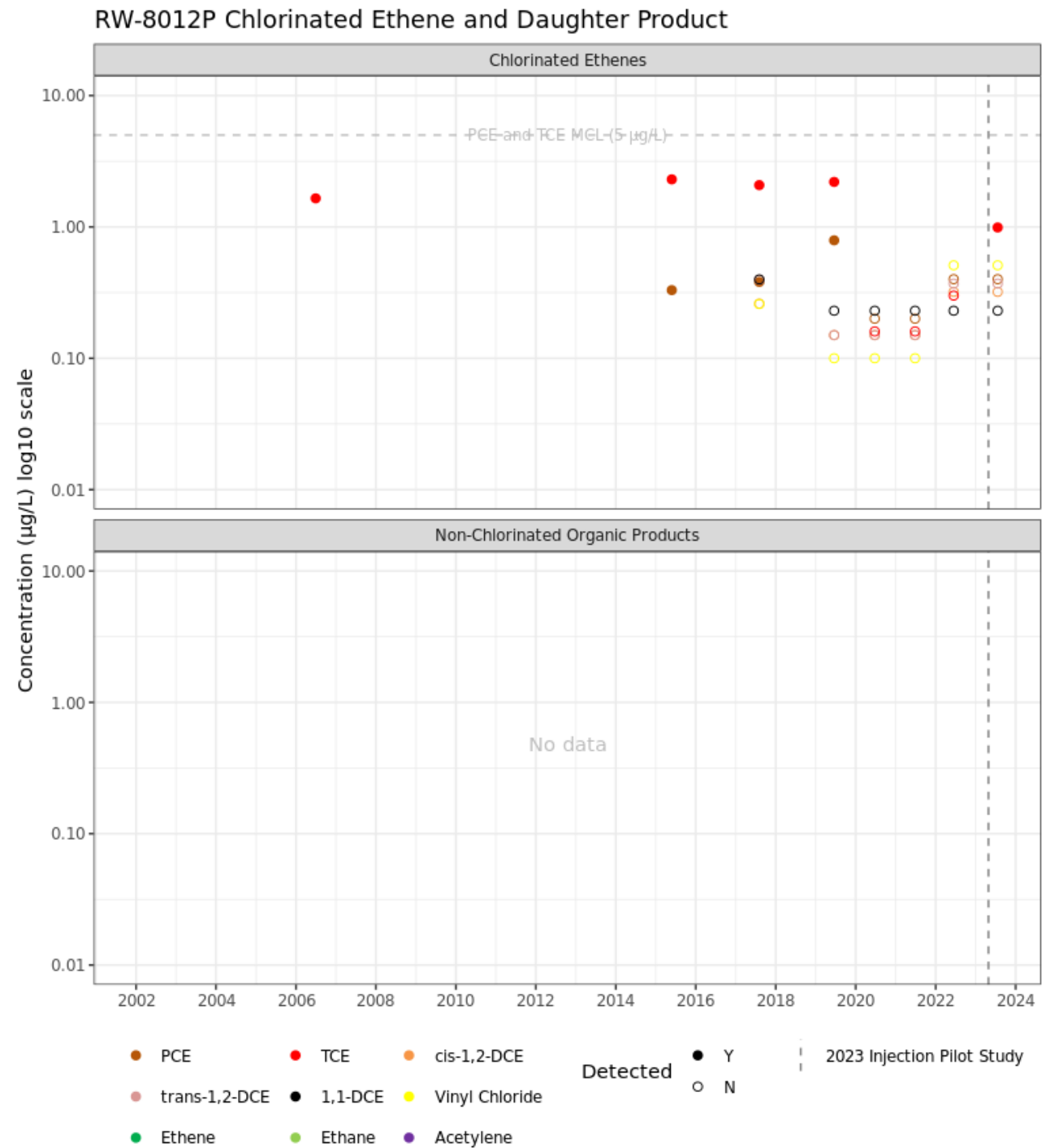
Detected ● Y ○ N

2023 Injection Pilot Study

Chlorinated Ethene and Daughter Product Mass

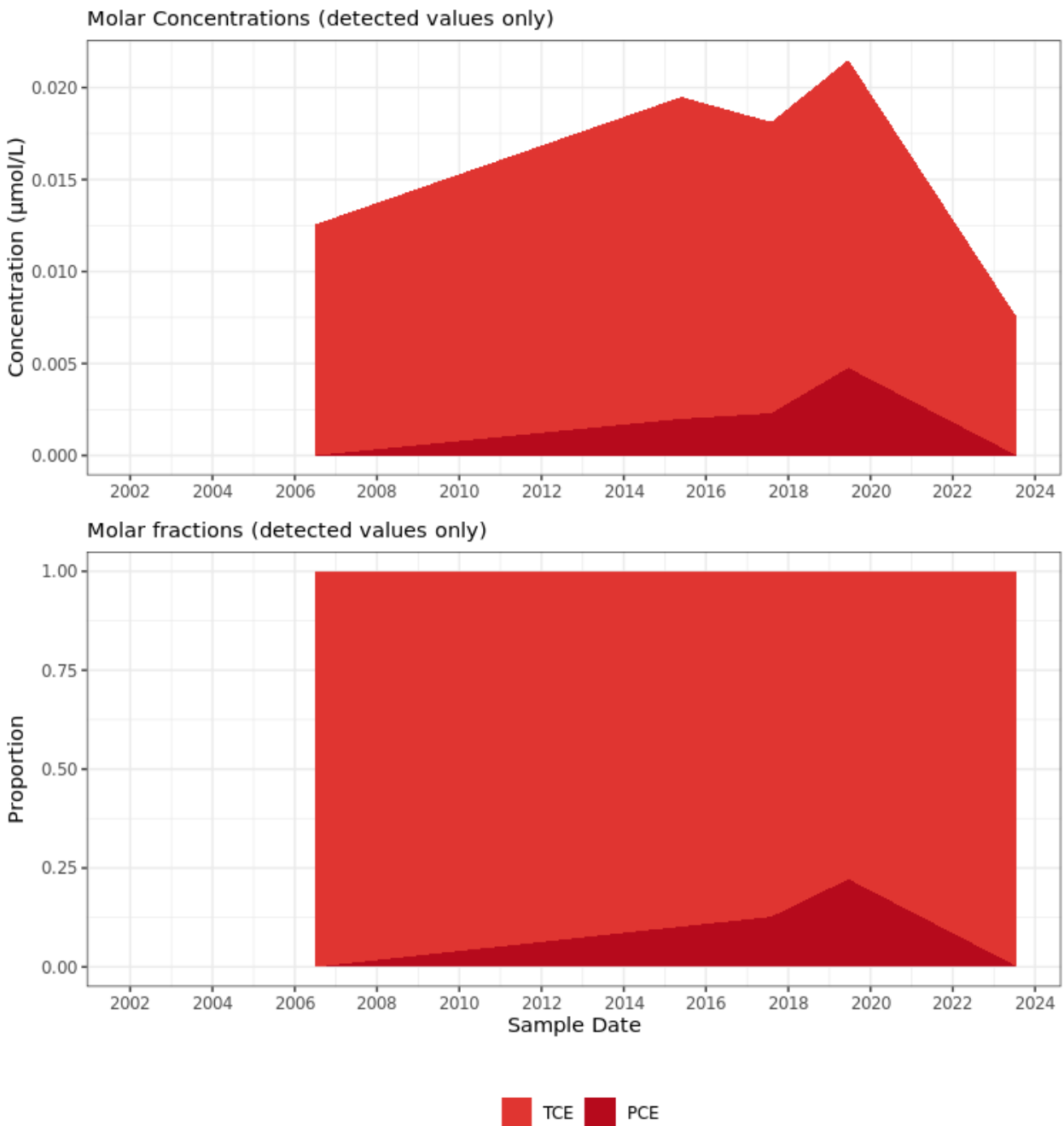


Chlorinated Ethene and Daughter Product Mass (log10)



Chlorinated Ethene and Daughter Product Concentration

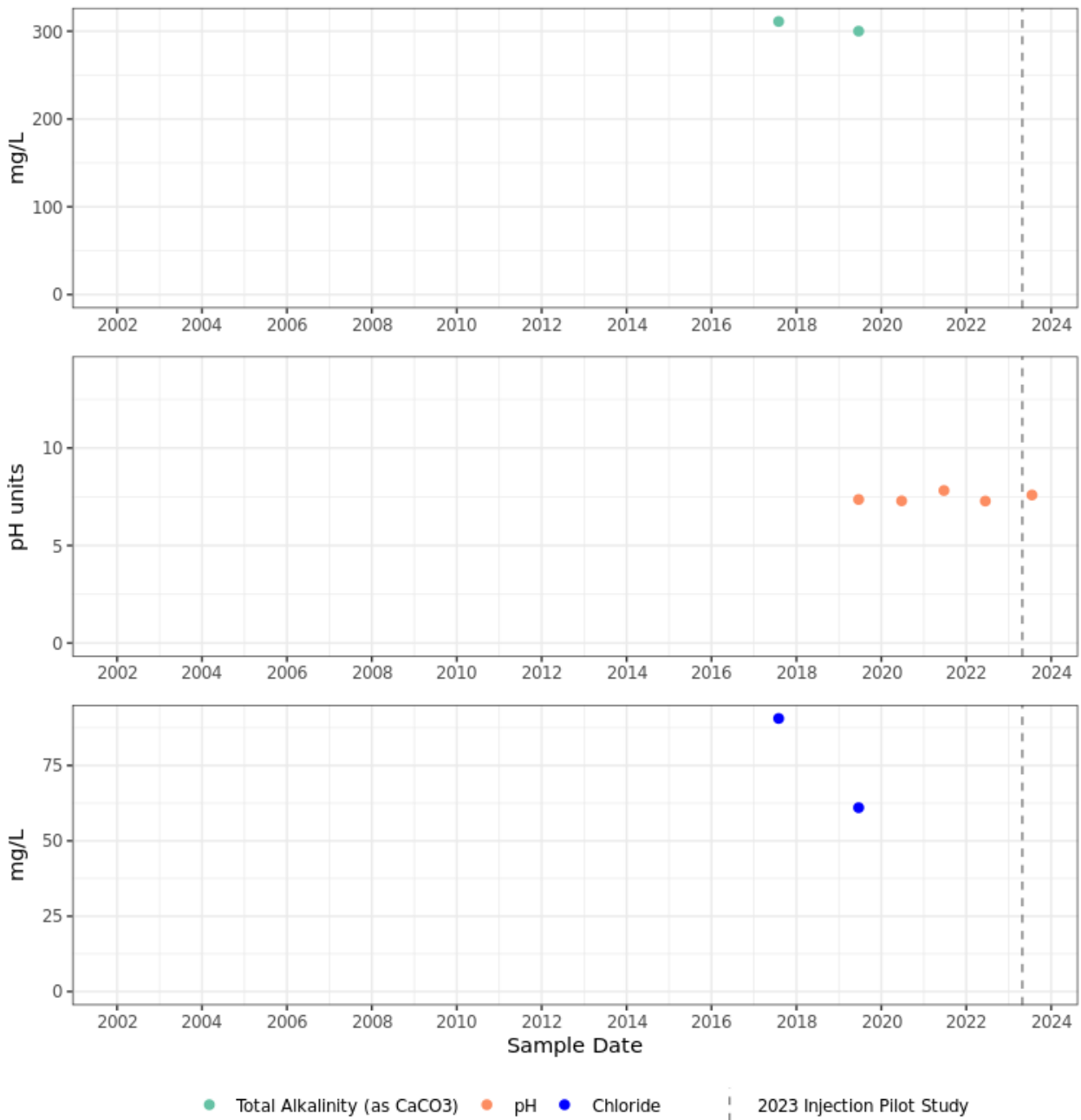
RW-8012P Chlorinated Ethene and Daughter Product



RW-8030P

Water Quality

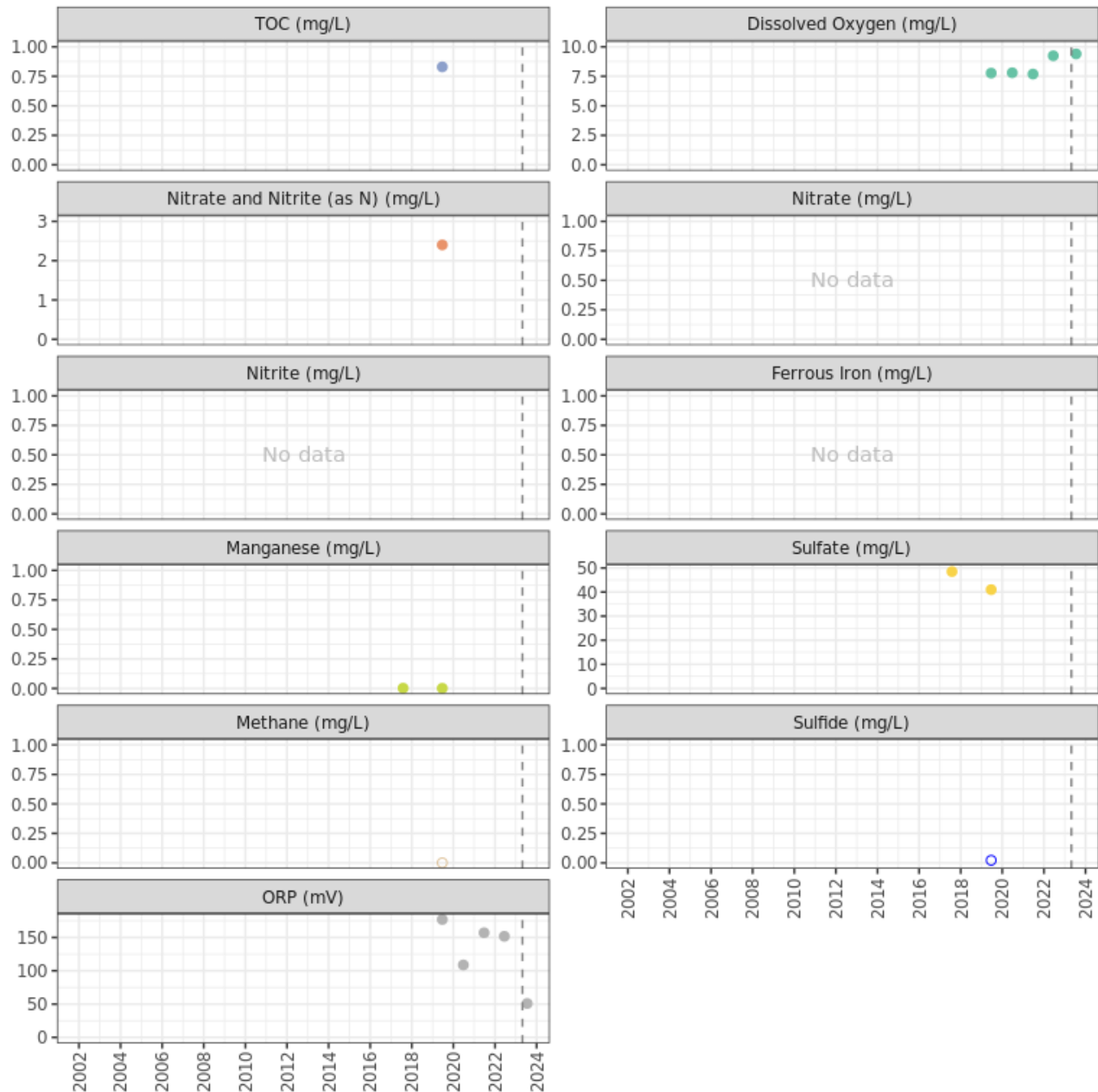
RW-8030P Water Quality Parameters



TOC and Redox Parameters

RW-8030P TOC and Redox Parameters

Mass Concentrations

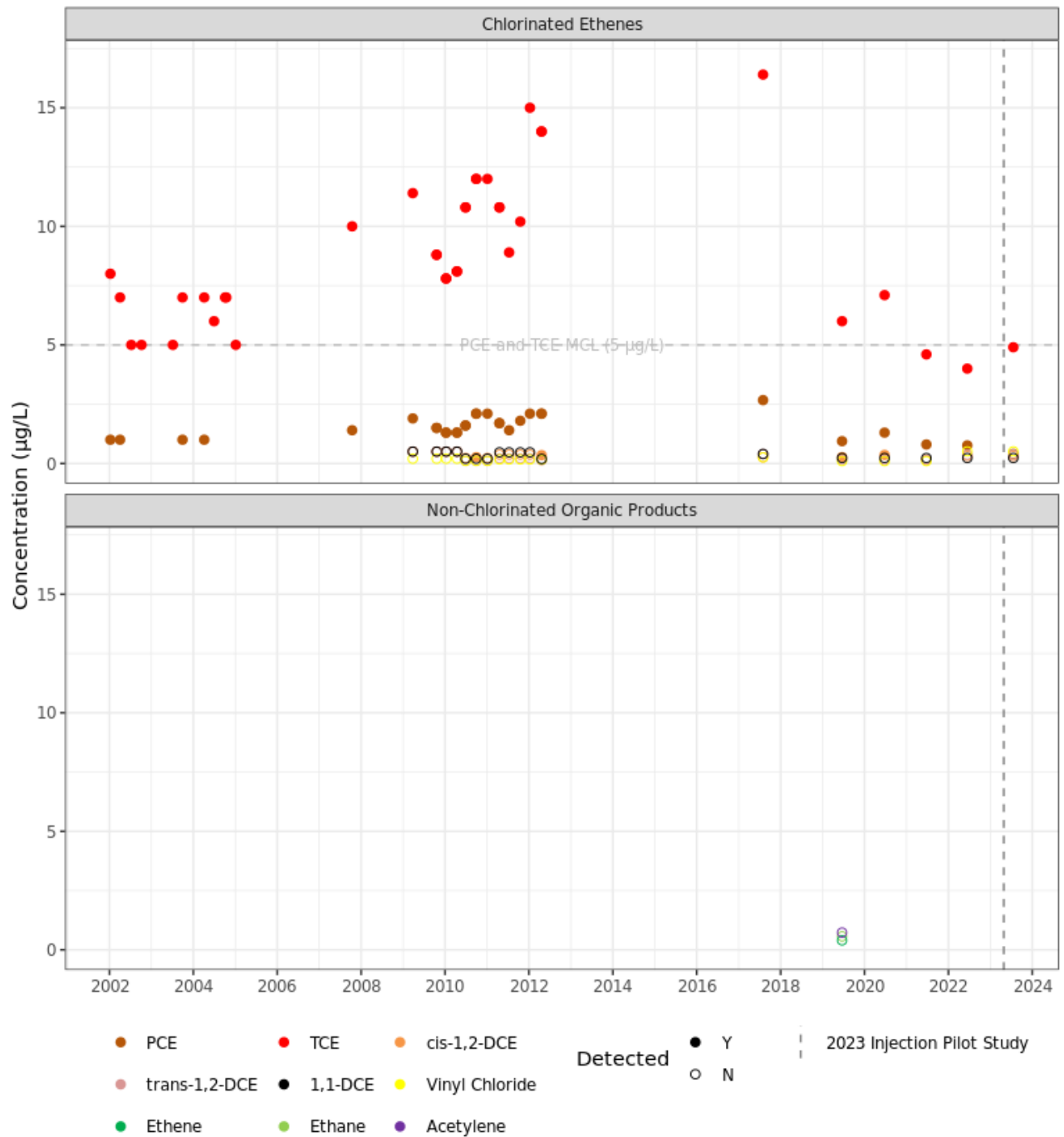


Detected ● Y ○ N

2023 Injection Pilot Study

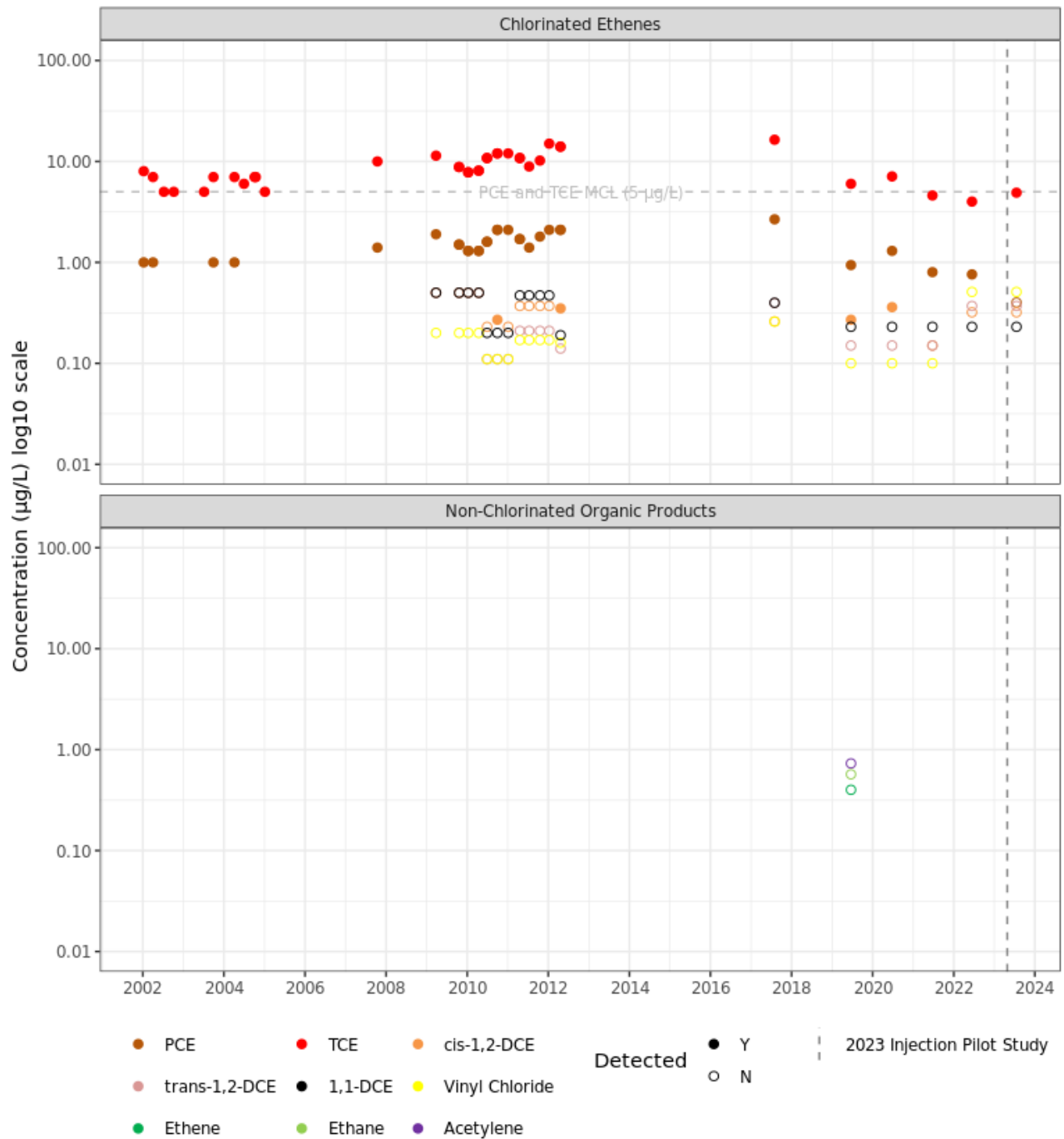
Chlorinated Ethene and Daughter Product Mass

RW-8030P Chlorinated Ethene and Daughter Product



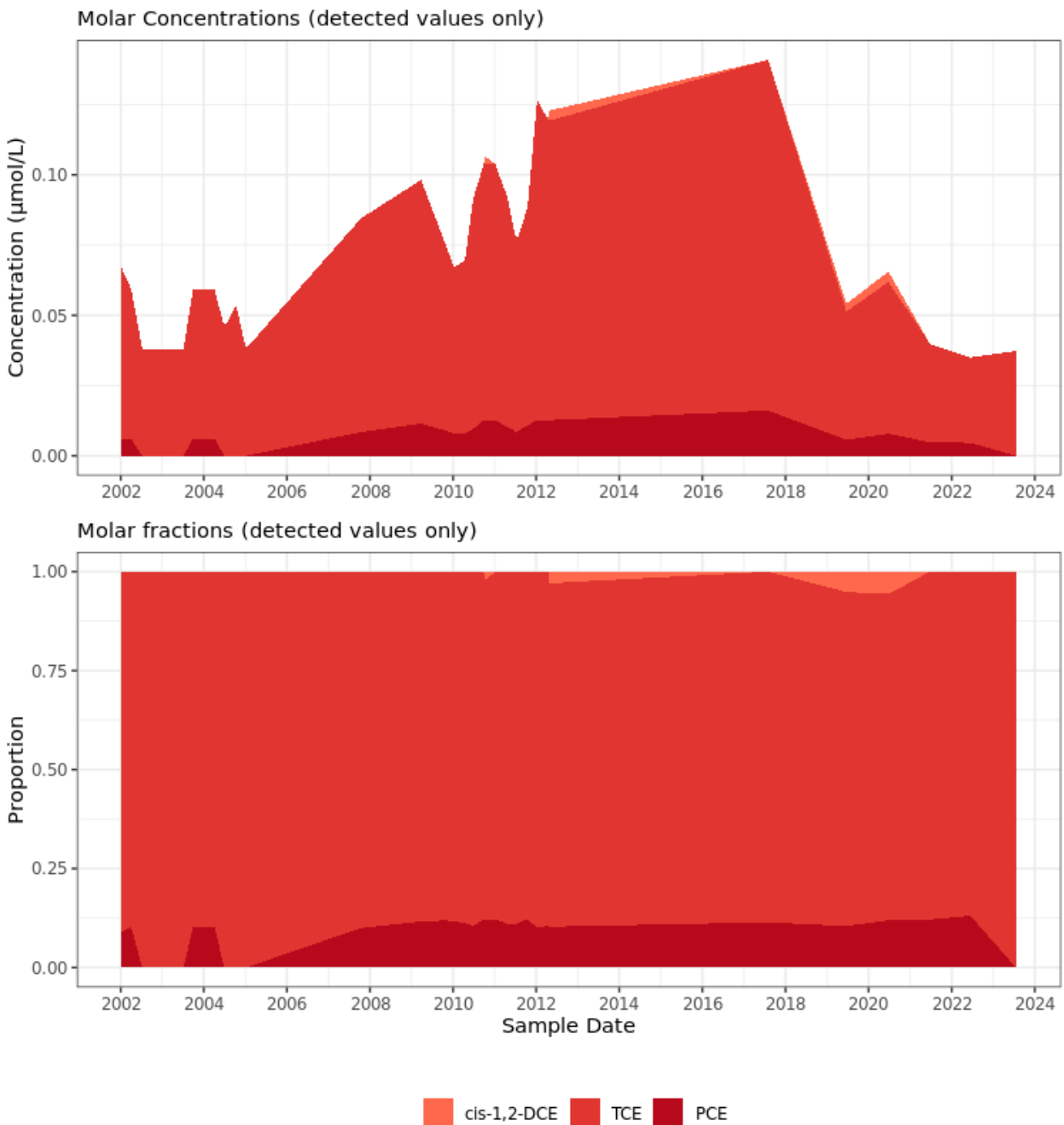
Chlorinated Ethene and Daughter Product Mass (log10)

RW-8030P Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

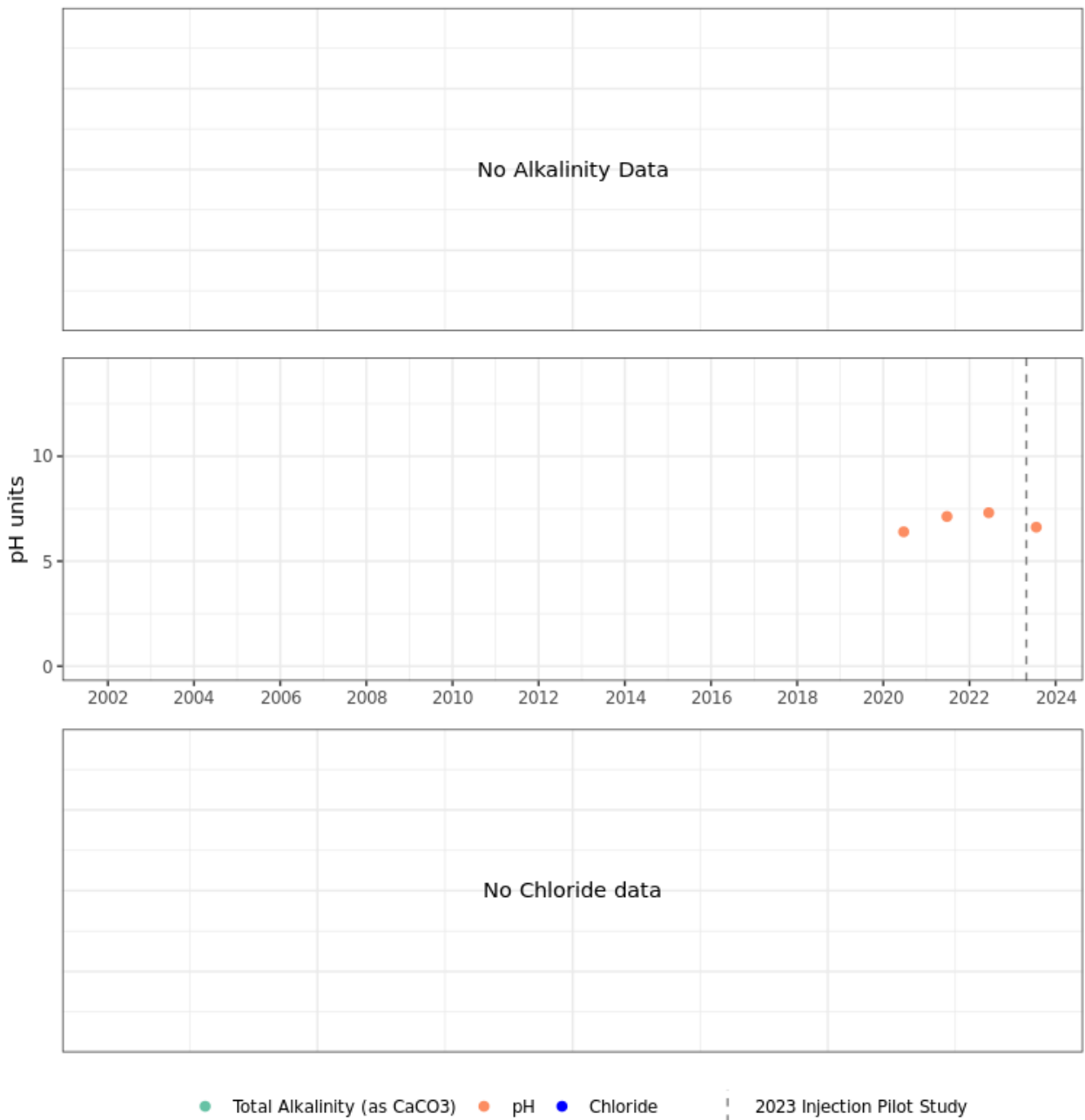
RW-8030P Chlorinated Ethene and Daughter Product



RW-8048P

Water Quality

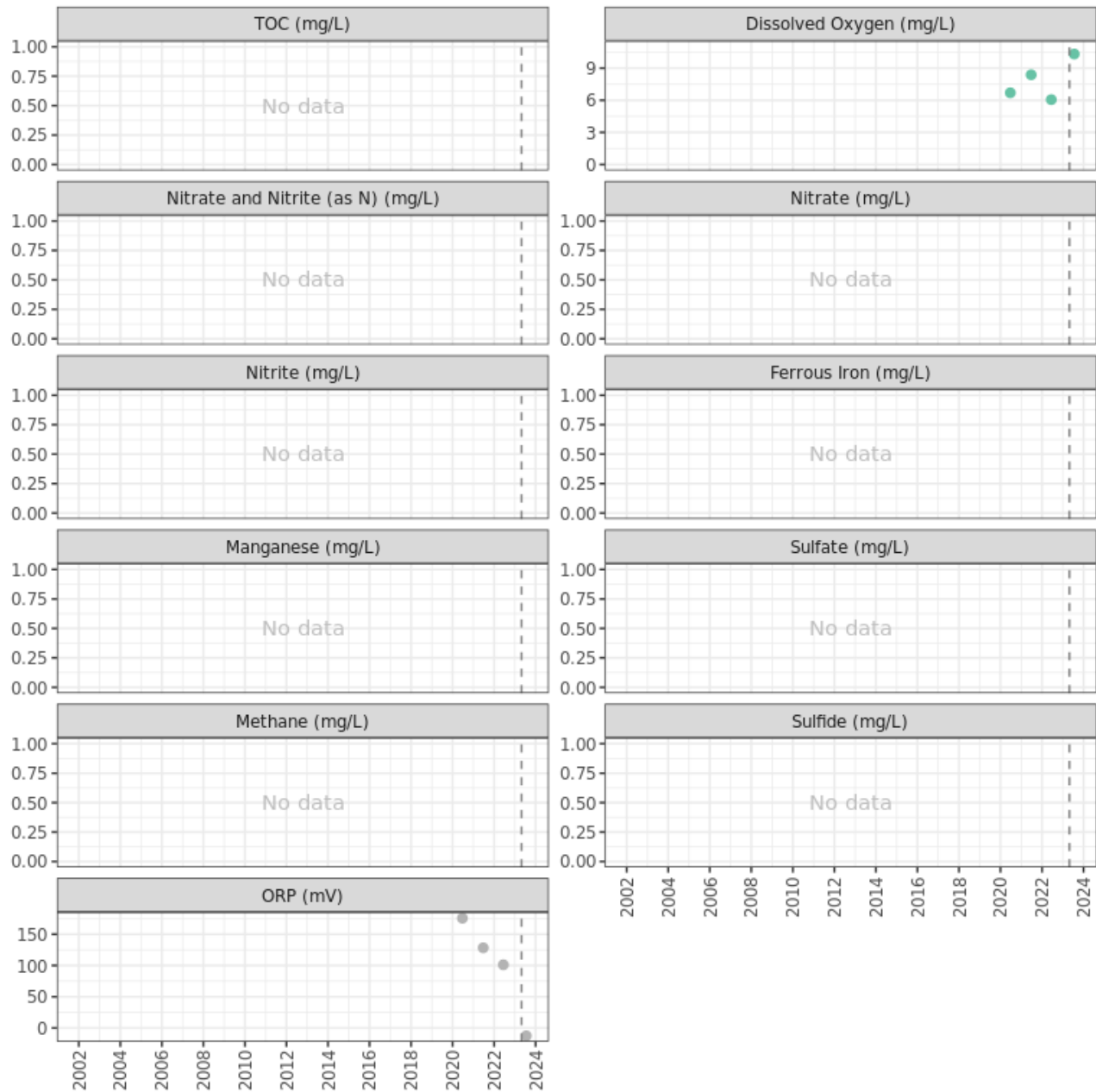
RW-8048P Water Quality Parameters



TOC and Redox Parameters

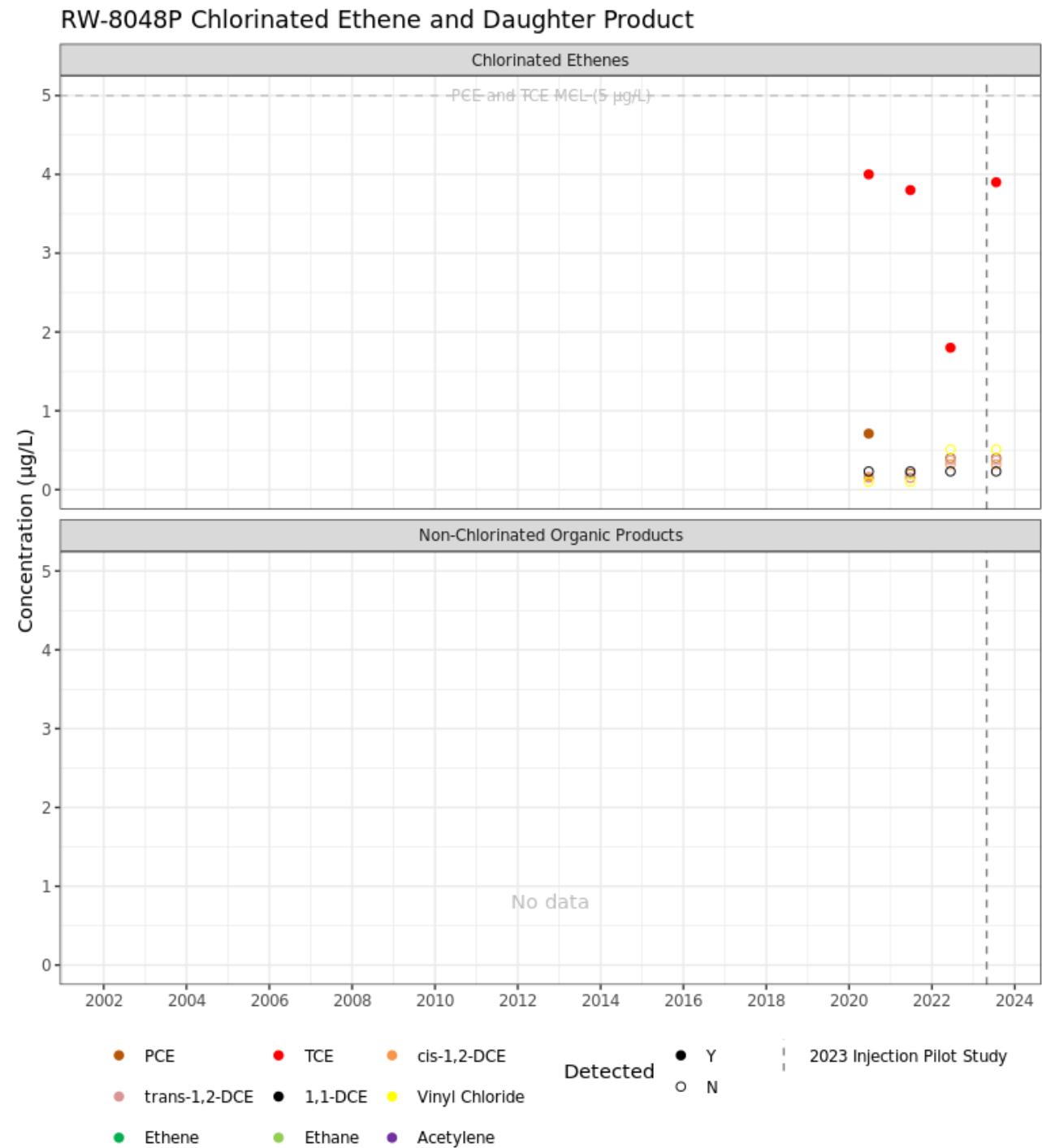
RW-8048P TOC and Redox Parameters

Mass Concentrations

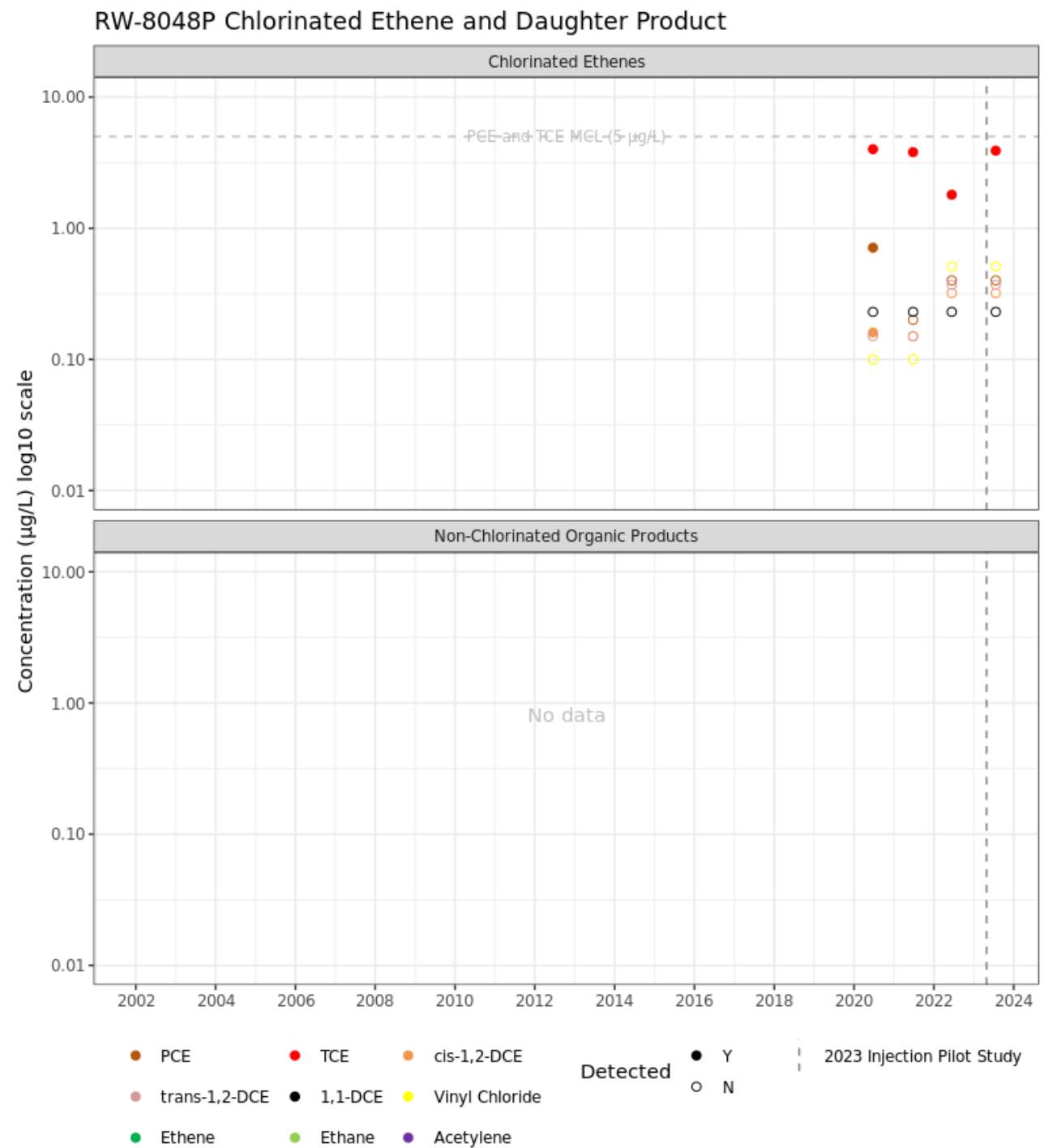


Detected ● Y | 2023 Injection Pilot Study

Chlorinated Ethene and Daughter Product Mass

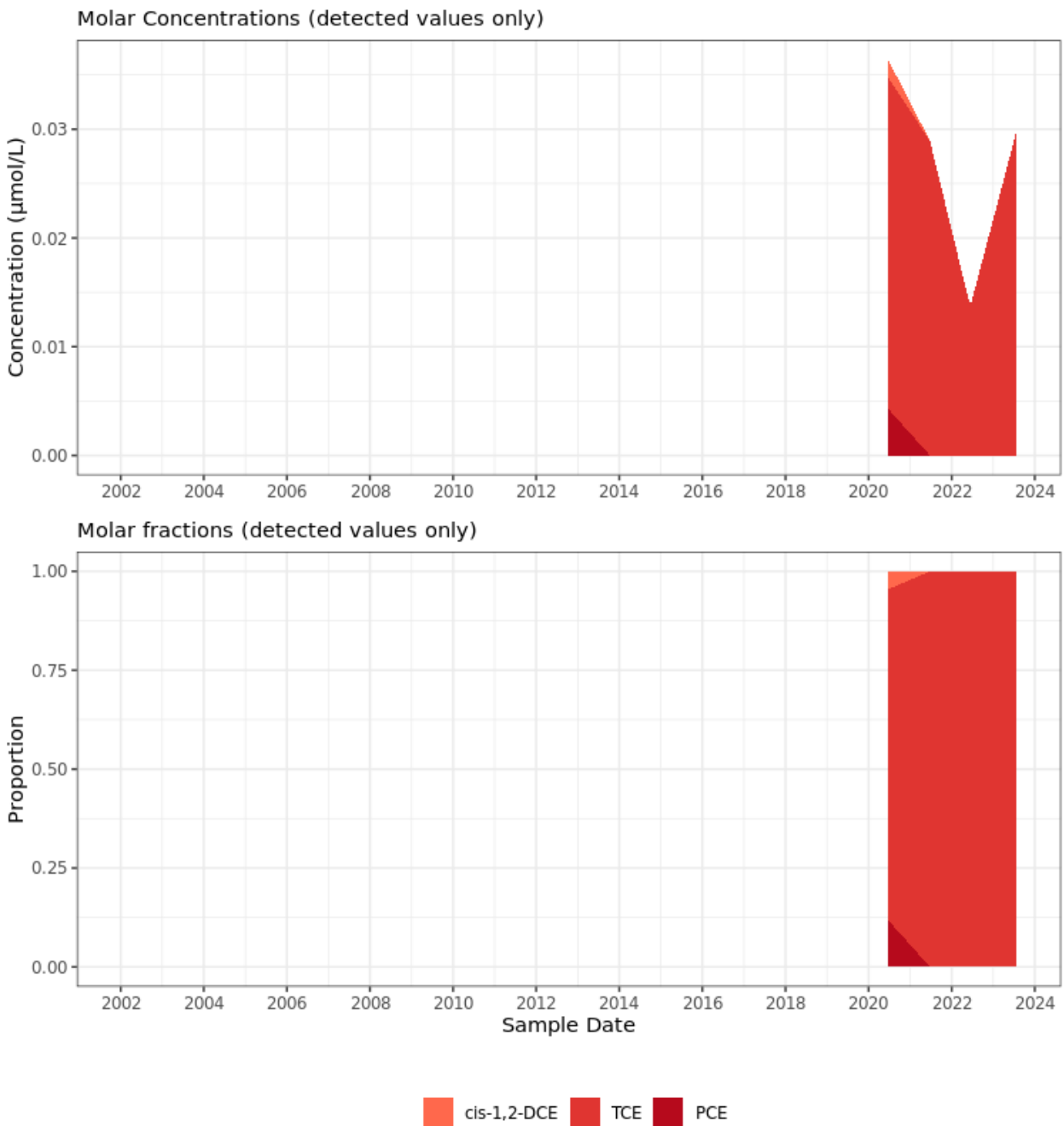


Chlorinated Ethene and Daughter Product Mass (log10)



Chlorinated Ethene and Daughter Product Concentration

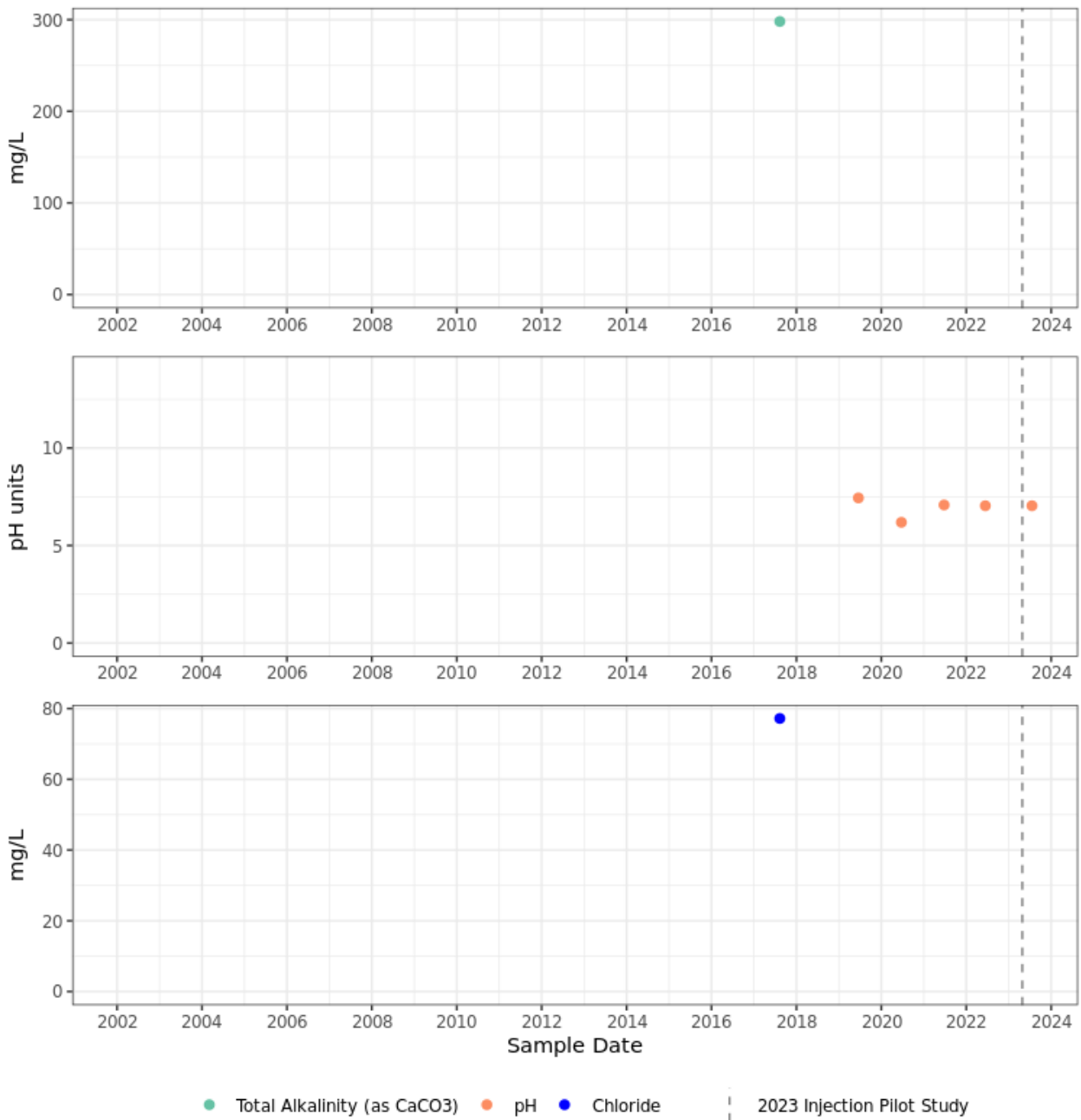
RW-8048P Chlorinated Ethene and Daughter Product



RW-8105PS

Water Quality

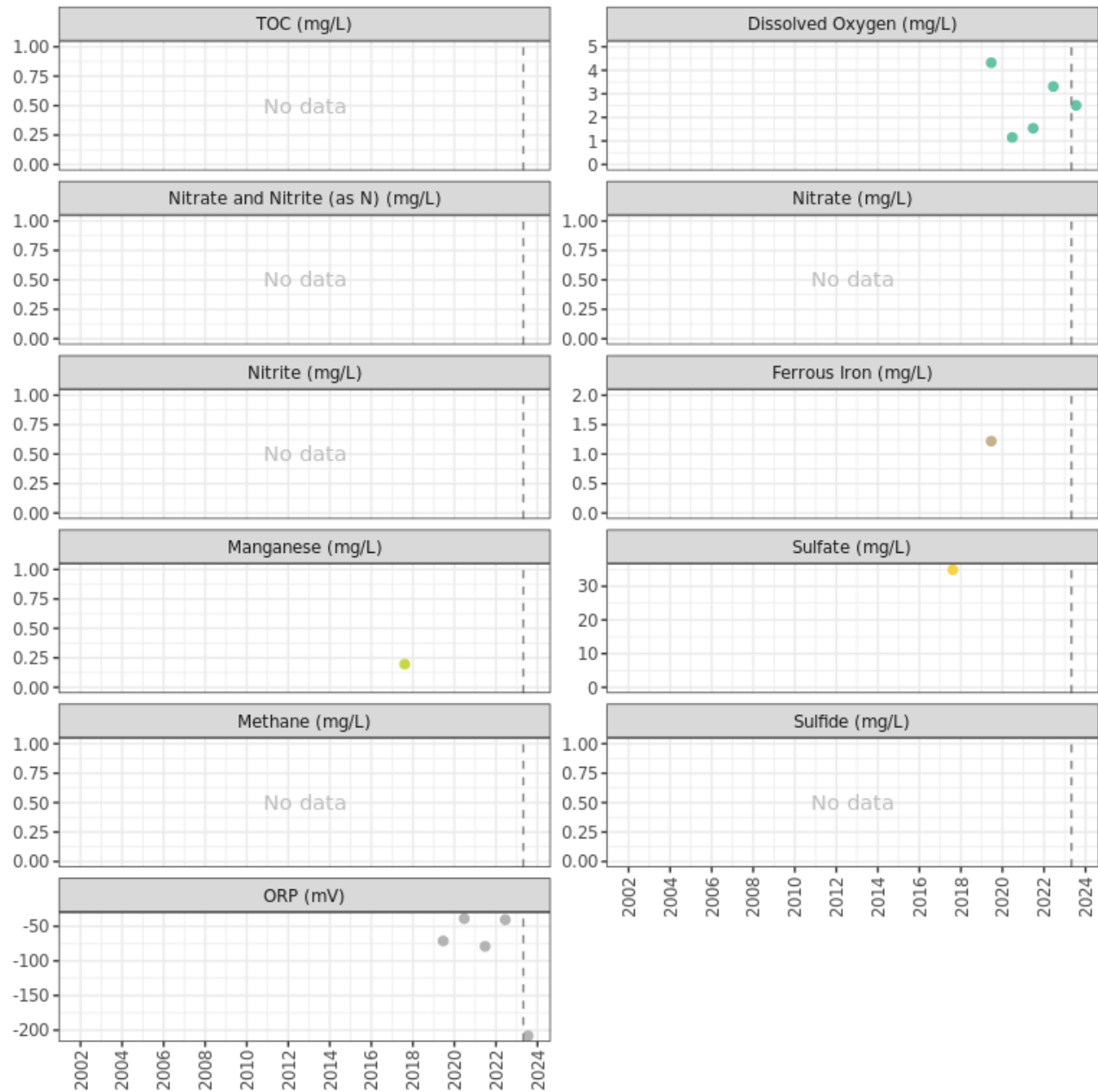
RW-8105PS Water Quality Parameters



TOC and Redox Parameters

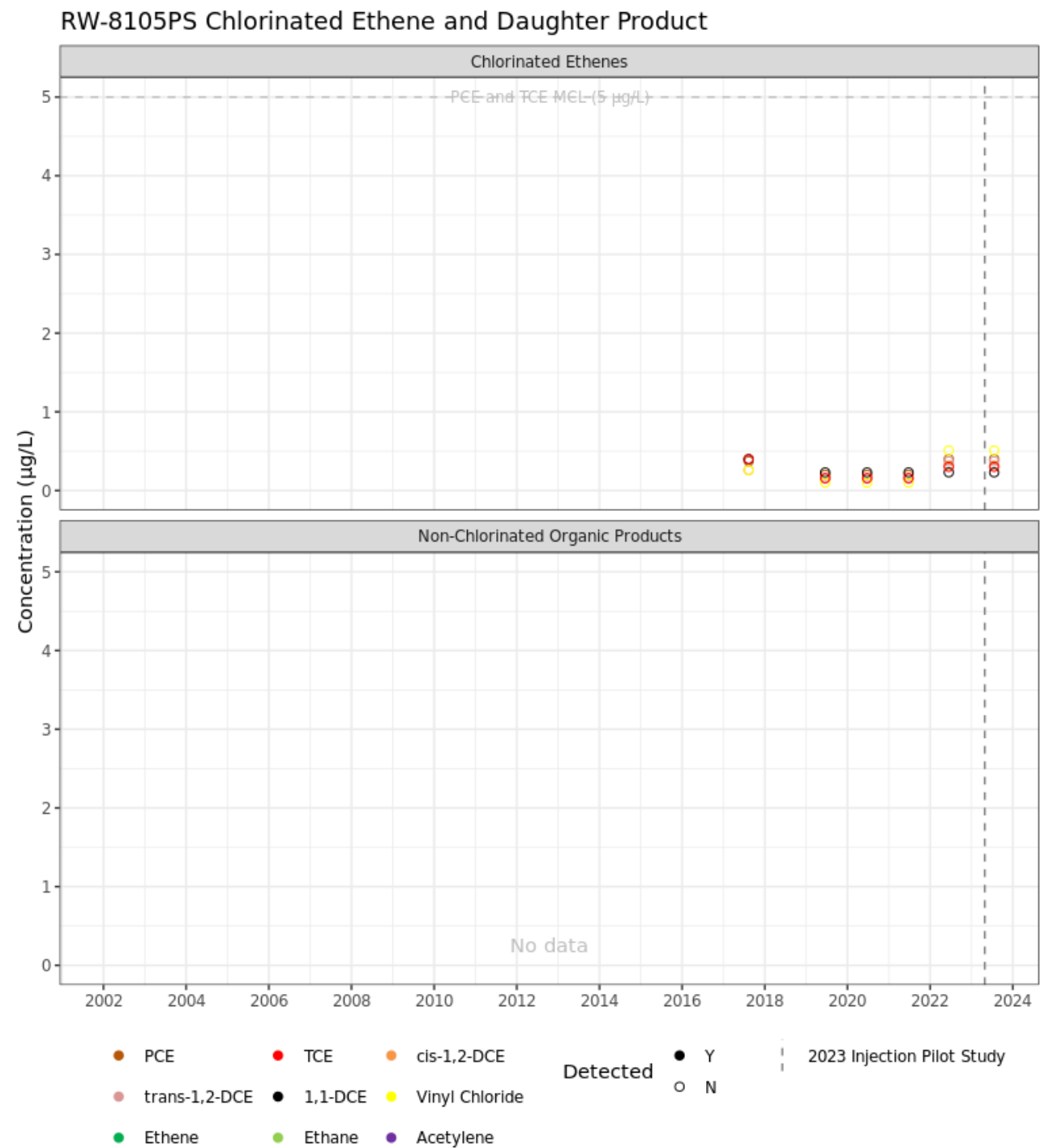
RW-8105PS TOC and Redox Parameters

Mass Concentrations

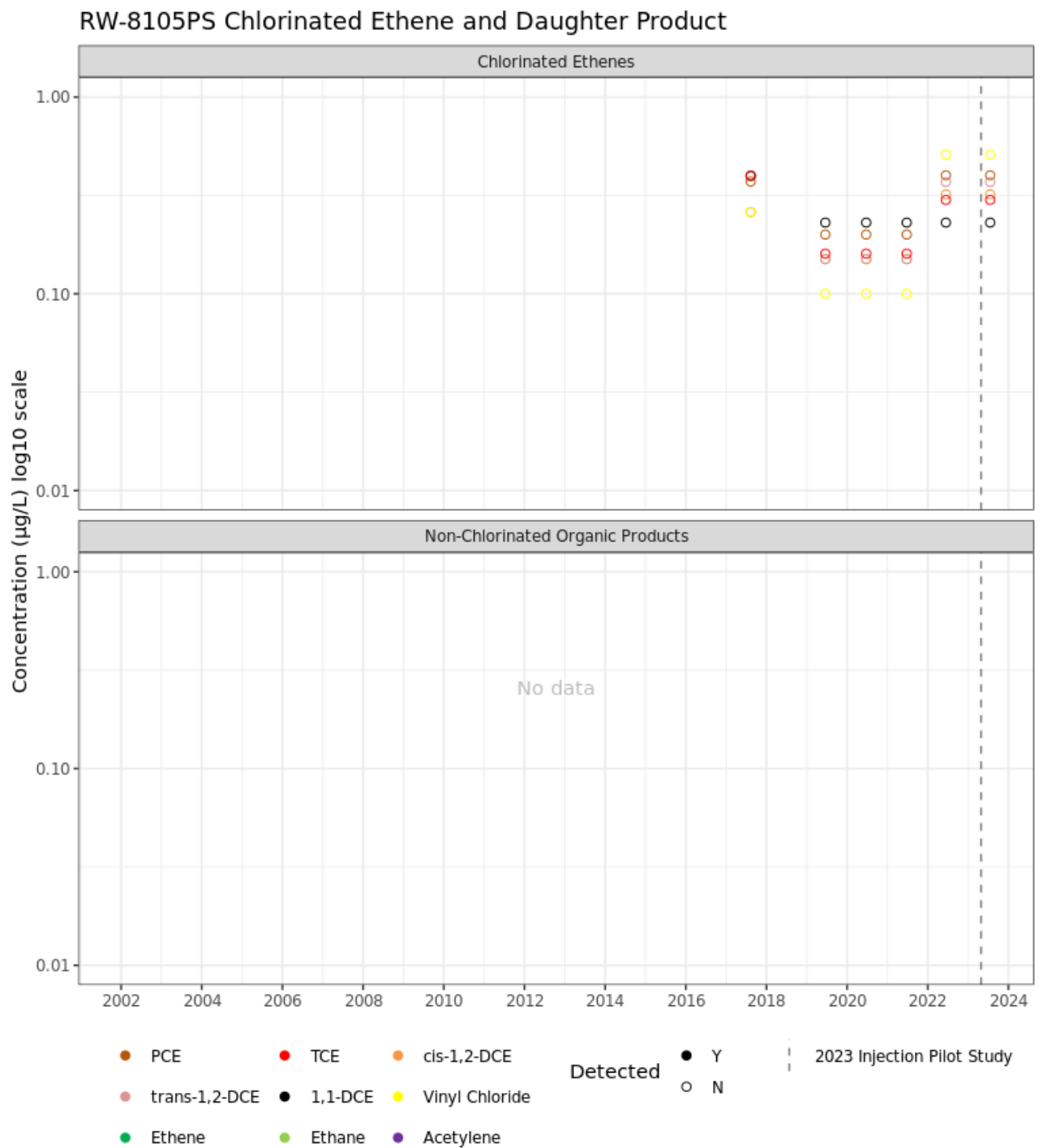


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Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)



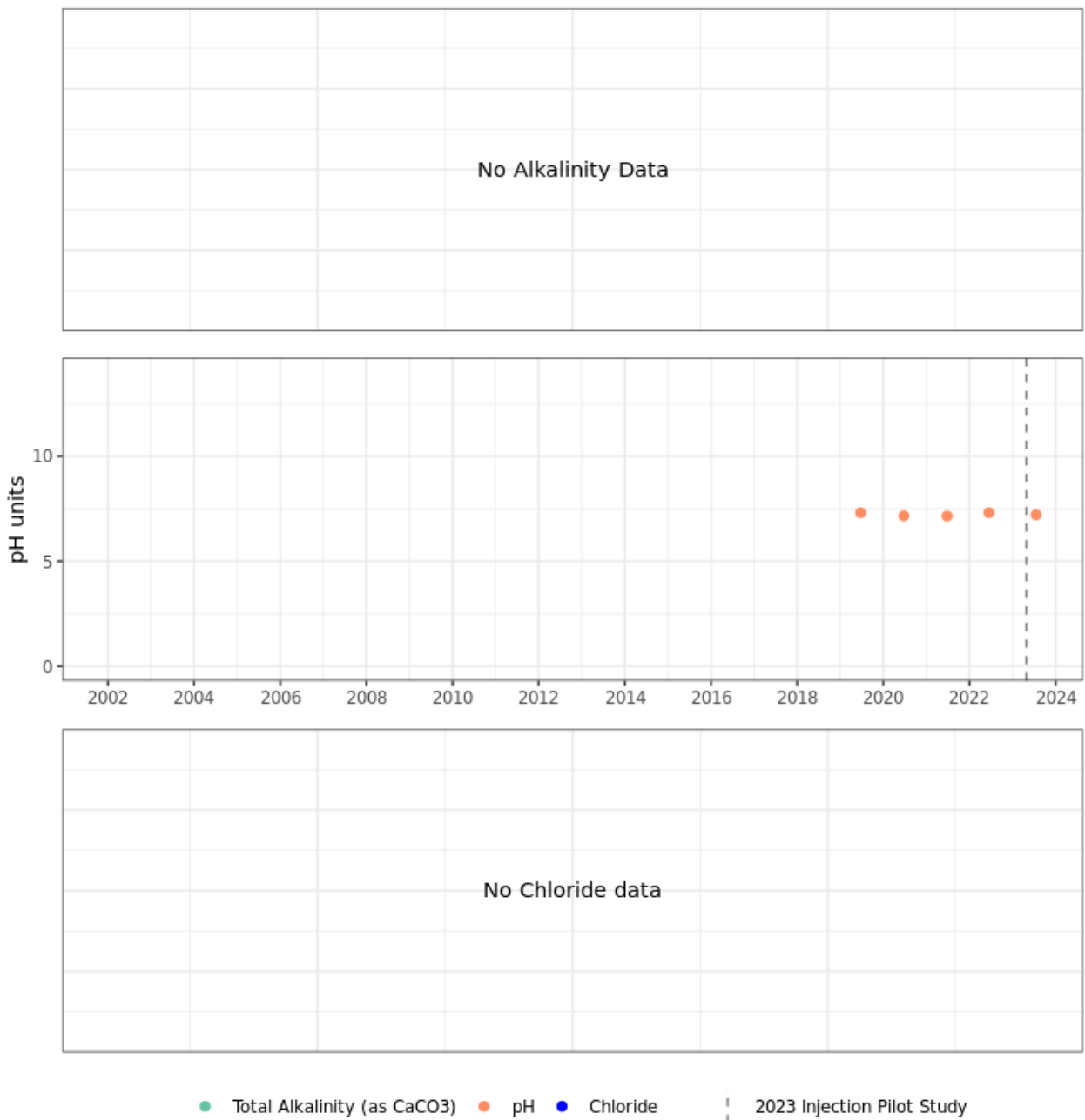
Chlorinated Ethene and Daughter Product Concentration

			No data				

RW-8284P

Water Quality

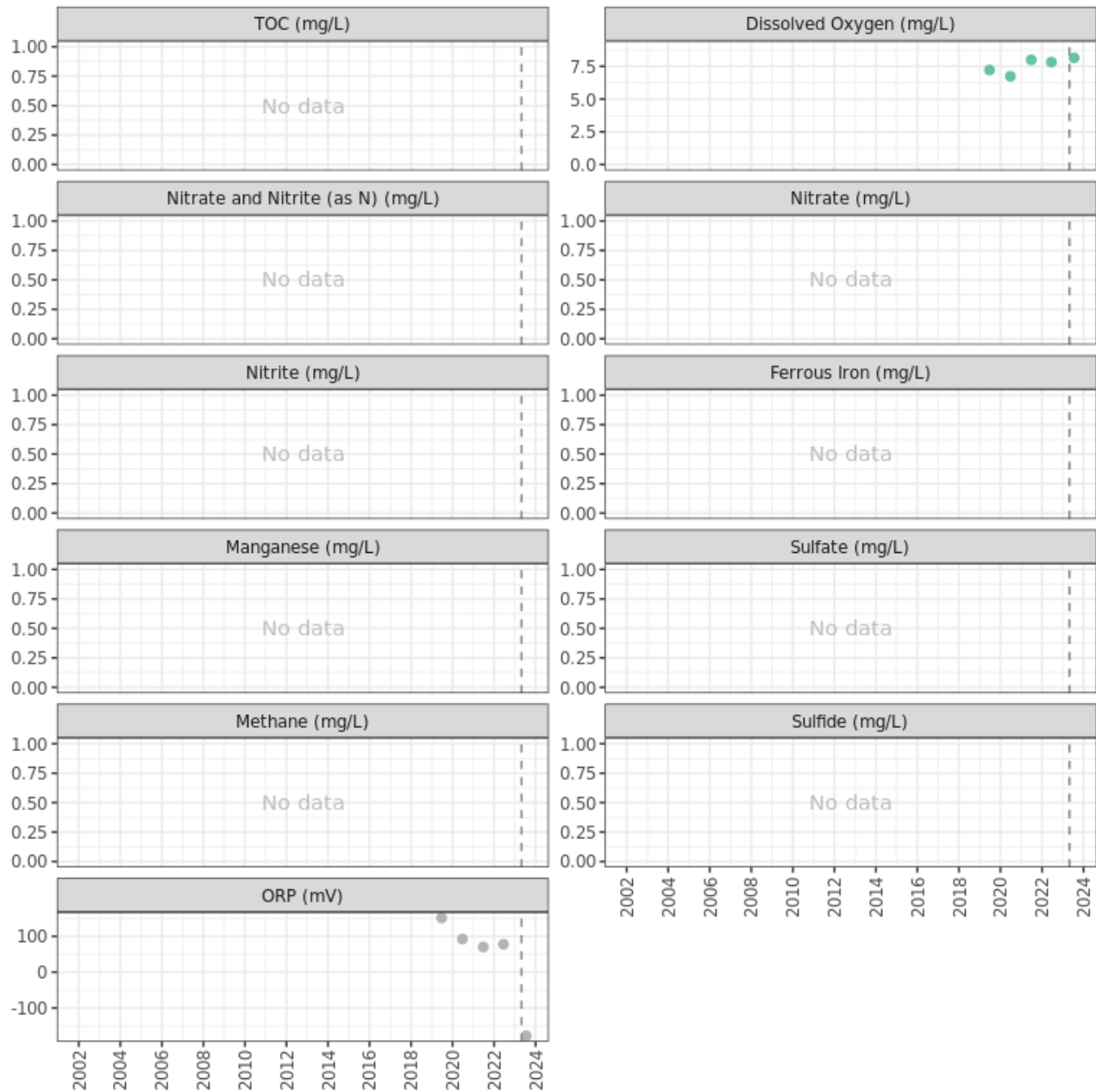
RW-8284P Water Quality Parameters



TOC and Redox Parameters

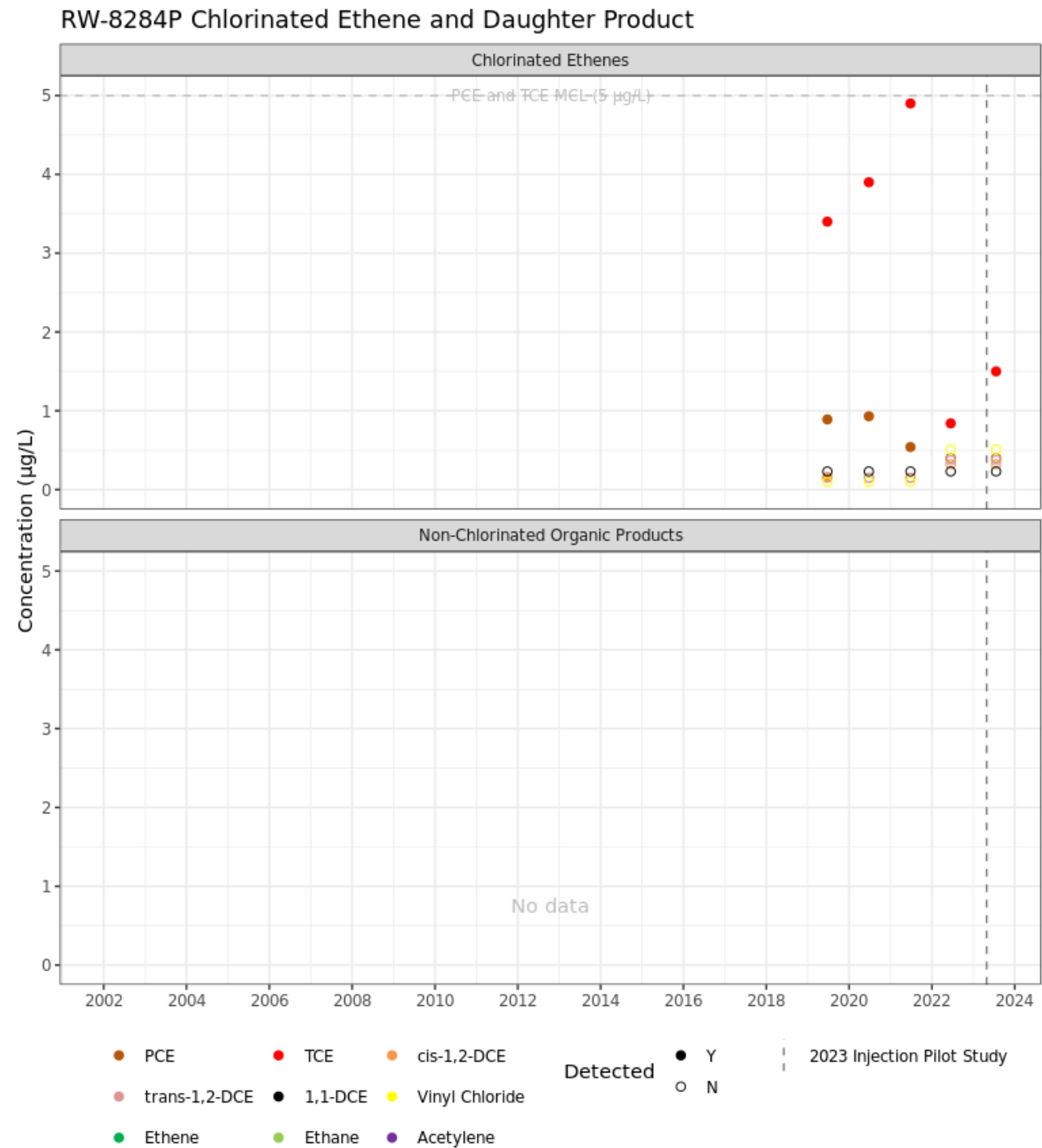
RW-8284P TOC and Redox Parameters

Mass Concentrations



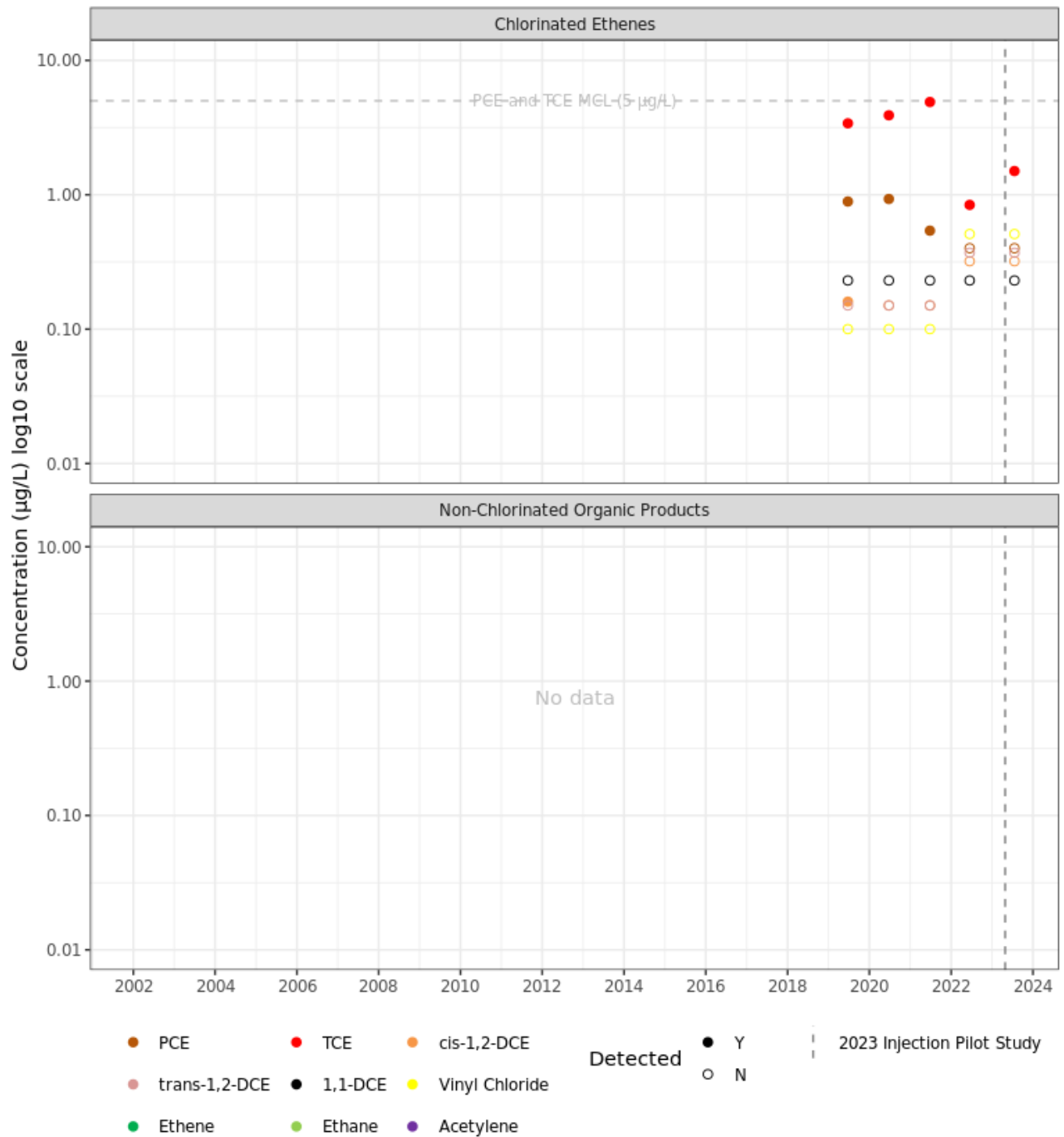
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Chlorinated Ethene and Daughter Product Mass



Chlorinated Ethene and Daughter Product Mass (log10)

RW-8284P Chlorinated Ethene and Daughter Product



Chlorinated Ethene and Daughter Product Concentration

RW-8284P Chlorinated Ethene and Daughter Product

